

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198892

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198892  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV-AF-01-LED-U-SL4-7050-800  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4662 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

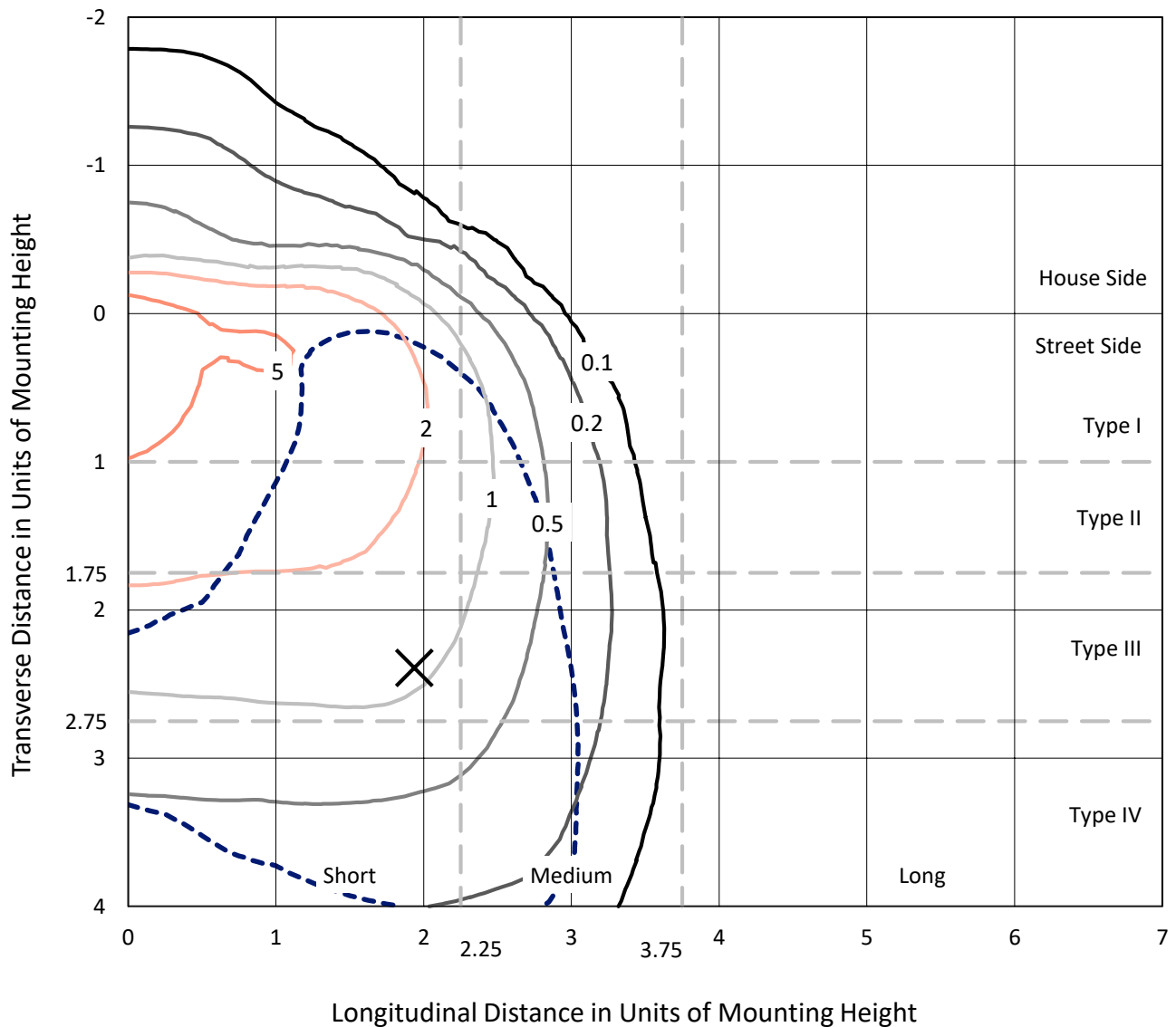
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

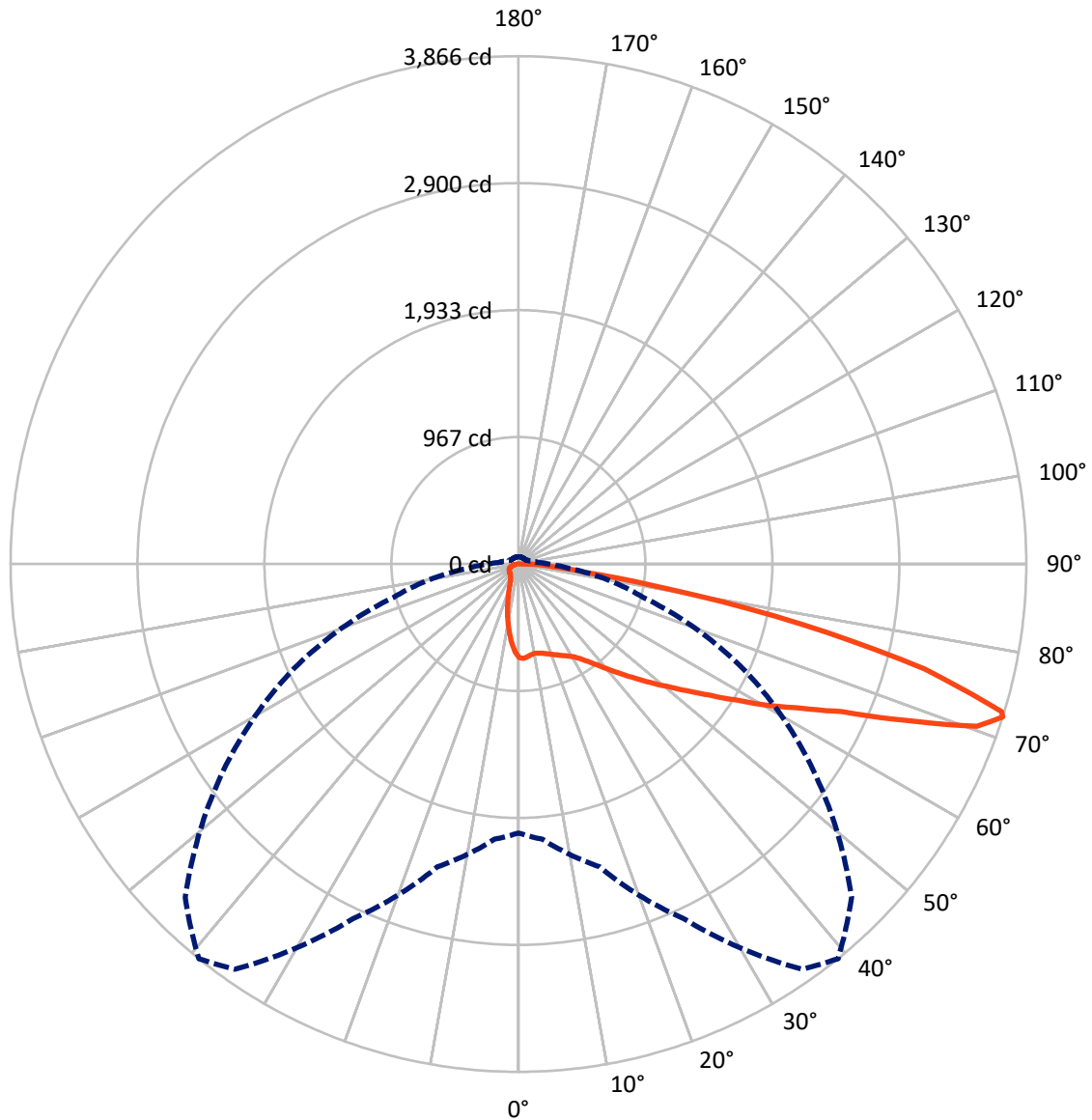
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical

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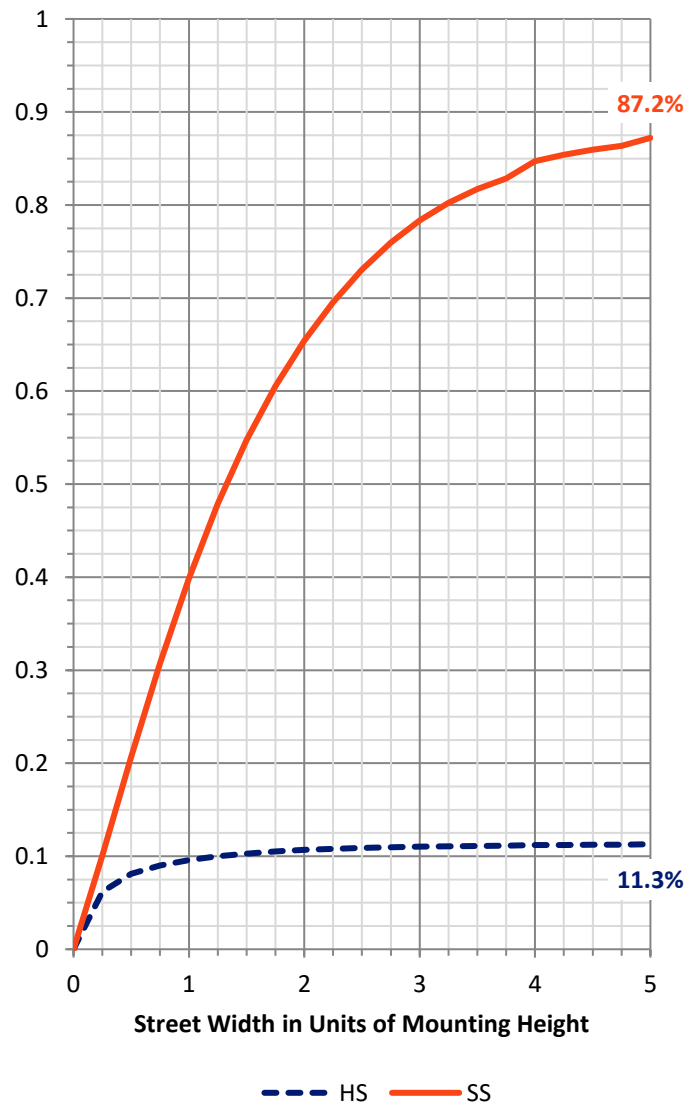
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	534.6	0.0	534.6
	% Fixture	11.5	0.0	11.5
<b>Street Side</b>	Lumens	4127.4	0.0	4127.4
	% Fixture	88.5	0.0	88.5
<b>Total</b>	Lumens	4662.0	0.0	4662.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.2	1.3
10°-20°	153.7	3.3
20°-30°	239.6	5.1
30°-40°	368.9	7.9
40°-50°	601.4	12.9
50°-60°	934.5	20.0
60°-70°	1250.8	26.8
70°-80°	899.5	19.3
80°-90°	152.5	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4662.0	100.0
0°-180°	4662.0	100.0



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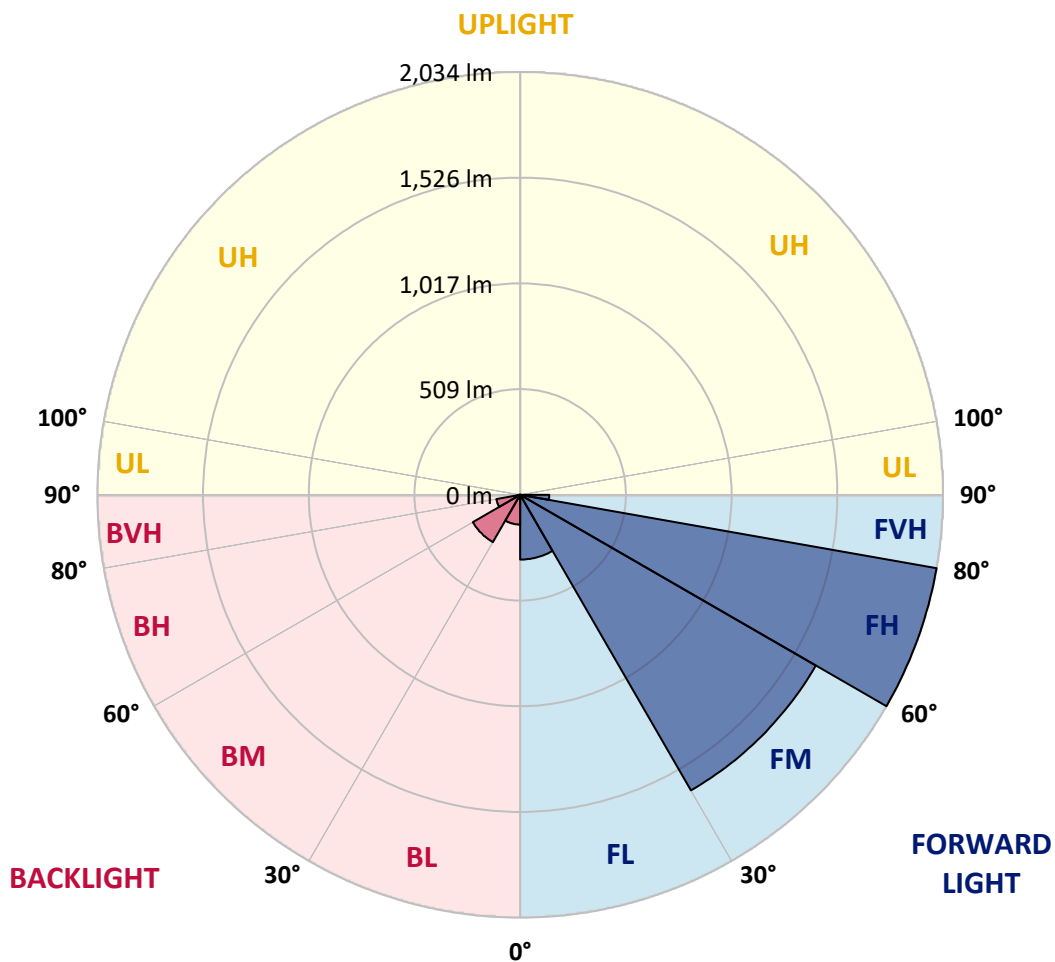
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	311.4	6.7			
FM	(30°-60°)	1642.0	35.2			
FH	(60°-80°)	2034.1	43.6			G2/5000
FVH	(80°-90°)	139.9	3.0			G2/225
BL	(0°-30°)	143.1	3.1	B1/500		
BM	(30°-60°)	262.7	5.6	B1/1000		
BH	(60°-80°)	116.1	2.5	B1/500		G1/500
BVH	(80°-90°)	12.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0
2.5°	727.3	727.6	726.7	723.9	721.4	720.1	717.9	714.2	709.2	705.7	702.9
5°	720.4	721.4	720.7	716.0	711.7	709.2	705.7	700.4	693.8	691.0	684.4
7.5°	715.1	715.7	713.8	708.5	700.1	696.9	690.7	683.8	677.9	673.8	666.0
10°	711.3	712.0	710.4	705.1	695.7	691.9	684.4	676.9	669.1	664.1	655.3
12.5°	706.0	707.3	707.3	704.8	698.5	696.0	688.5	680.4	673.2	667.8	656.9
15°	705.1	706.7	709.5	709.2	707.3	705.4	699.5	691.3	685.1	678.8	665.3
17.5°	712.9	716.4	722.0	723.9	722.6	718.5	711.7	704.1	697.3	691.3	674.7
20°	732.6	734.5	743.0	746.7	740.4	734.5	725.4	715.7	709.5	704.8	683.5
22.5°	762.4	764.9	771.7	772.1	758.9	751.7	740.1	728.2	722.3	720.4	695.4
25°	809.9	809.3	811.2	803.4	779.6	771.1	757.0	743.3	739.2	743.0	712.9
27.5°	866.9	865.3	859.4	839.0	803.0	792.1	775.2	763.0	763.0	771.7	736.7
30°	932.6	931.0	911.6	877.5	830.9	818.4	800.5	787.7	794.3	811.2	768.9
32.5°	1002.1	996.4	969.2	923.5	870.6	856.9	839.7	826.5	839.0	867.8	815.2
35°	1067.5	1064.4	1030.9	976.7	922.0	910.4	898.5	882.2	902.2	947.0	880.7
37.5°	1135.1	1132.6	1091.6	1034.0	984.6	976.7	966.7	955.4	987.7	1046.5	969.2
40°	1210.5	1205.5	1153.9	1096.3	1057.5	1053.7	1048.4	1045.3	1097.2	1184.8	1081.3
42.5°	1295.9	1286.2	1219.6	1164.8	1137.0	1140.1	1137.3	1149.8	1229.3	1344.5	1214.6
45°	1393.6	1374.2	1285.0	1237.7	1224.9	1237.4	1243.4	1275.3	1385.4	1528.8	1363.5
47.5°	1485.0	1459.9	1356.7	1316.9	1324.1	1345.7	1362.6	1418.9	1556.6	1710.9	1515.6
50°	1569.2	1541.0	1433.3	1398.9	1434.0	1464.6	1499.7	1579.2	1738.8	1898.4	1655.2
52.5°	1631.4	1611.1	1510.0	1488.4	1560.1	1600.8	1656.8	1757.2	1922.8	2077.1	1779.8
55°	1679.6	1668.7	1584.8	1591.1	1702.8	1761.0	1828.9	1944.4	2117.4	2237.3	1879.9
57.5°	1735.3	1727.2	1670.2	1715.0	1879.9	1953.1	2033.3	2161.6	2302.7	2378.5	1958.5
60°	1794.2	1794.2	1765.4	1864.3	2101.5	2185.4	2265.2	2365.0	2487.4	2505.5	1990.4
62.5°	1838.6	1850.2	1860.5	2023.2	2311.8	2416.0	2503.6	2599.4	2678.6	2568.1	1915.3
65°	1903.1	1927.8	1986.0	2207.0	2572.2	2708.6	2826.9	2907.3	2833.5	2518.3	1670.2
67.5°	2013.9	2050.5	2174.4	2480.5	2970.9	3175.2	3290.1	3151.1	2803.1	2205.1	1279.4
70°	2113.7	2165.3	2377.2	2827.5	3489.1	3701.3	3648.4	3094.5	2441.4	1616.4	787.1
72°	2047.3	2103.7	2386.6	2978.7	3766.1	3866.2	3587.4	2742.4	1886.5	986.4	388.1
72.5°	2003.8	2062.4	2356.2	2974.9	3773.6	3845.3	3502.6	2602.5	1712.5	863.1	313.9
75°	1674.0	1724.1	2026.1	2636.6	3325.5	3194.0	2733.3	1684.3	787.1	278.8	161.5
77.5°	1093.1	1131.3	1397.0	1826.7	2329.3	2202.9	1663.7	788.6	295.1	169.3	121.4
80°	549.2	576.5	747.6	960.5	1257.1	1156.7	768.0	381.5	197.5	122.4	95.5
82.5°	382.1	407.2	514.8	490.4	525.5	508.6	361.1	318.3	147.7	77.3	50.1
85°	320.5	346.4	425.9	349.6	286.0	260.7	258.8	300.7	97.6	38.2	42.2
87.5°	279.5	318.9	351.4	255.4	196.2	173.1	190.6	275.7	31.0	21.0	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0	712.0
2.5°	698.2	697.3	692.6	685.4	680.0	676.6	670.0	669.7	670.3	664.7	666.9
5°	678.5	674.7	662.5	645.9	632.5	619.6	605.6	600.9	596.8	588.4	589.3
7.5°	657.8	651.3	630.0	602.8	576.8	553.0	529.5	517.9	509.2	498.2	498.2
10°	645.6	635.3	602.8	563.0	521.7	487.0	451.9	430.9	415.6	401.5	400.6
12.5°	645.0	629.4	584.0	529.2	472.6	423.7	375.9	343.6	320.8	304.2	302.6
15°	650.0	628.1	568.3	497.6	426.2	362.7	303.6	262.6	233.5	215.0	213.1
17.5°	654.4	626.5	551.4	464.4	381.2	303.9	238.2	195.6	168.1	153.0	151.5
20°	658.5	623.1	529.8	429.4	331.4	248.8	186.2	151.8	133.6	125.2	124.2
22.5°	664.4	620.0	507.3	389.9	282.6	202.5	153.7	128.9	119.2	115.2	114.5
25°	674.1	620.3	485.4	349.6	237.8	168.7	133.0	117.7	112.4	109.5	109.5
27.5°	688.2	624.0	463.8	308.6	200.0	145.5	120.8	111.7	108.3	106.1	105.5
30°	708.8	630.9	441.0	269.8	169.9	129.6	113.6	108.0	105.2	103.3	103.0
32.5°	738.9	643.1	416.9	234.4	147.1	118.3	108.3	104.8	102.6	101.1	100.8
35°	783.6	664.7	393.4	204.4	130.8	110.2	103.9	101.1	99.8	99.2	98.9
37.5°	849.4	699.5	371.2	180.9	120.2	104.8	99.5	98.0	97.3	97.3	97.3
40°	932.0	745.1	351.1	164.3	114.2	100.8	96.4	95.1	95.1	95.5	95.5
42.5°	1032.4	802.4	333.9	153.0	110.8	98.0	94.2	93.6	93.3	93.3	93.6
45°	1149.2	870.0	323.3	144.3	108.3	96.4	92.6	92.3	91.1	90.4	90.4
47.5°	1266.5	942.3	322.7	139.3	105.2	94.5	91.1	91.1	88.6	87.3	87.6
50°	1376.1	1007.1	329.5	138.0	103.3	91.7	89.5	89.8	86.4	84.8	84.5
52.5°	1464.3	1056.5	338.0	139.6	103.3	89.2	86.7	88.3	84.5	82.6	82.3
55°	1532.5	1091.0	341.1	143.0	104.5	87.0	84.2	86.7	83.9	81.4	81.4
57.5°	1581.4	1101.9	327.7	144.6	106.4	86.7	81.7	86.4	84.8	81.7	81.7
60°	1563.5	1038.4	277.6	138.6	106.1	86.1	79.8	87.0	87.9	84.5	84.5
62.5°	1424.3	868.8	222.8	125.2	100.8	83.9	77.6	86.4	90.1	88.9	88.3
65°	1159.5	637.2	172.8	109.2	91.7	79.2	72.9	80.7	85.1	86.4	86.7
67.5°	817.1	403.4	134.3	92.9	80.4	72.3	67.6	71.4	72.9	73.5	74.8
70°	446.9	218.4	106.7	78.2	68.8	65.4	62.0	62.3	61.7	61.0	61.7
72°	224.4	142.7	90.1	67.9	61.0	58.8	57.3	56.3	56.3	55.4	55.7
72.5°	193.1	132.7	87.0	65.4	59.1	57.3	56.0	55.1	54.8	54.1	54.5
75°	128.6	105.2	72.6	54.8	50.4	49.1	49.8	48.8	49.1	48.5	48.8
77.5°	103.9	90.4	61.7	46.3	43.2	41.3	42.6	42.9	43.5	42.9	42.6
80°	87.0	77.0	51.6	38.2	36.0	34.4	35.1	37.2	37.6	35.7	35.4
82.5°	56.3	62.0	40.7	29.7	27.5	26.9	28.5	30.7	31.3	28.8	28.2
85°	47.3	49.8	29.4	20.3	18.2	17.5	20.7	22.8	24.4	21.9	21.3
87.5°	13.1	24.4	14.4	9.7	8.1	8.1	10.0	11.9	14.1	14.4	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)