

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: P199212

Luminaire Tested: **XNV-AF-01-LED-U-SL4-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199212  
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-SL4-8030-800  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 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: 3804 lumens  
Efficiency: N/A  
Efficacy: 86.5 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

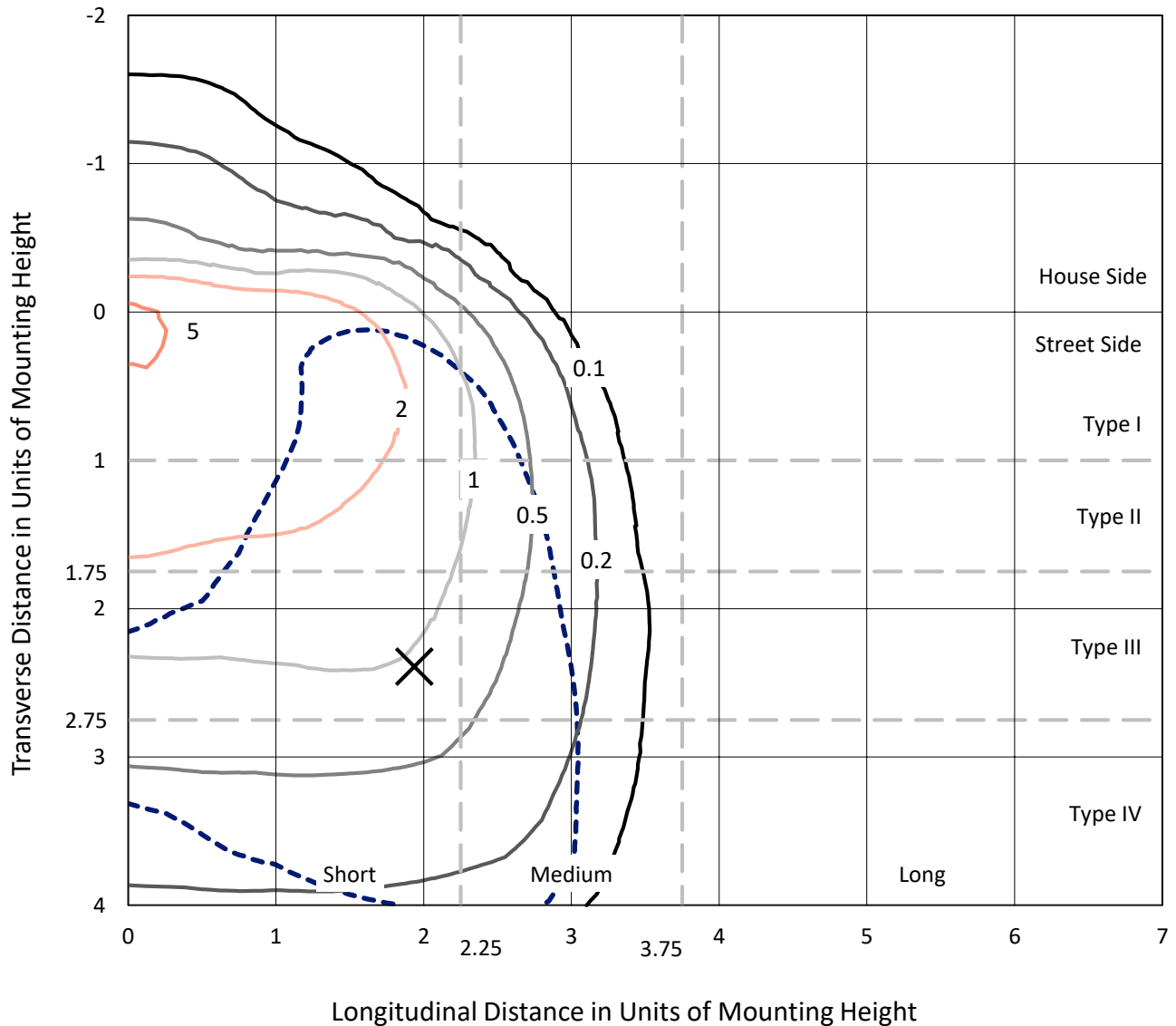
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

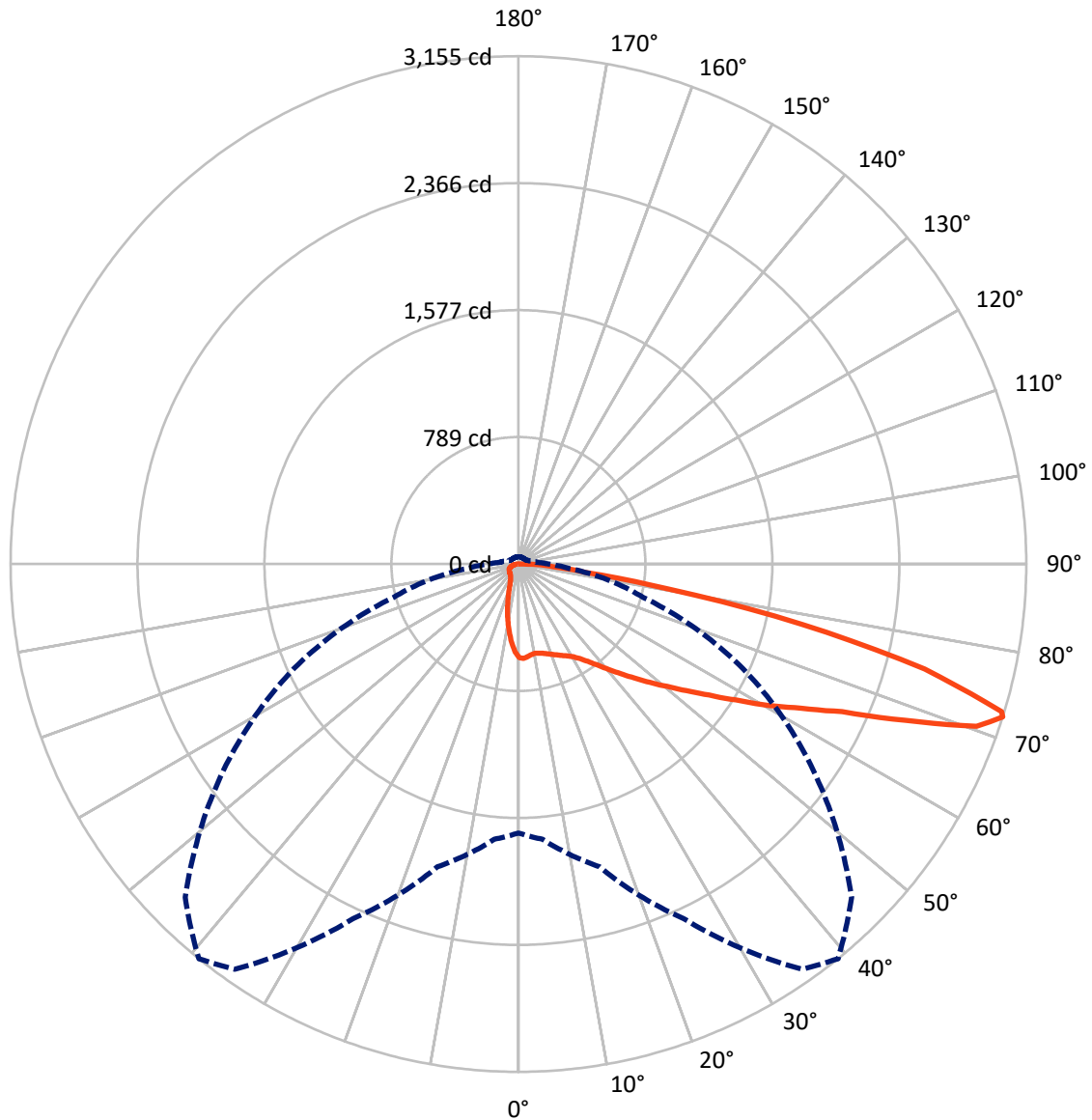
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.8 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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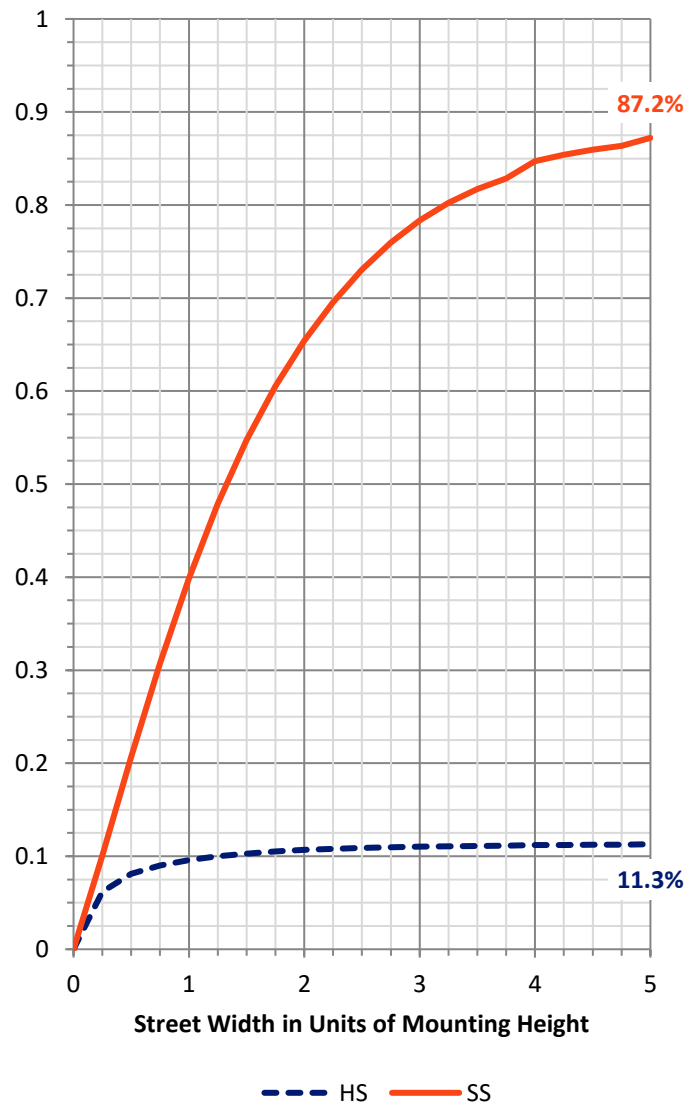
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	436.2	0.0	436.2
	% Fixture	11.5	0.0	11.5
<b>Street Side</b>	Lumens	3367.8	0.0	3367.8
	% Fixture	88.5	0.0	88.5
<b>Total</b>	Lumens	3804.0	0.0	3804.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.9	1.3
10°-20°	125.4	3.3
20°-30°	195.5	5.1
30°-40°	301.0	7.9
40°-50°	490.7	12.9
50°-60°	762.5	20.0
60°-70°	1020.6	26.8
70°-80°	733.9	19.3
80°-90°	124.4	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°	3804.0	100.0
0°-180°	3804.0	100.0

**Coefficient of Utilization**



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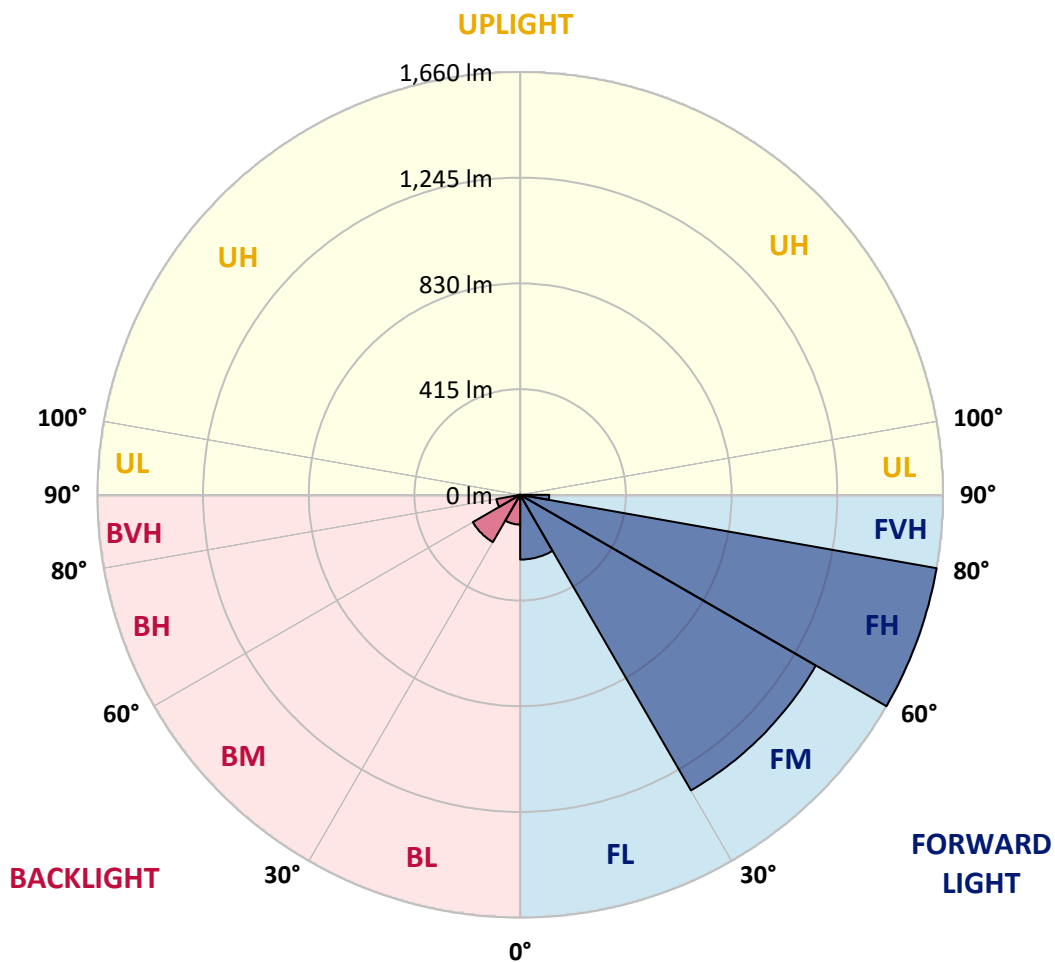
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	254.1	6.7			
FM	(30°-60°)	1339.8	35.2			
FH	(60°-80°)	1659.7	43.6			G1/1800
FVH	(80°-90°)	114.1	3.0			G2/225
BL	(0°-30°)	116.8	3.1	B1/500		
BM	(30°-60°)	214.4	5.6	B0/220		
BH	(60°-80°)	94.8	2.5	B0/110		G0/110
BVH	(80°-90°)	10.3	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°	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9
2.5°	593.5	593.7	592.9	590.6	588.6	587.6	585.8	582.7	578.6	575.8	573.5
5°	587.8	588.6	588.1	584.3	580.7	578.6	575.8	571.5	566.1	563.8	558.5
7.5°	583.5	584.0	582.5	578.1	571.2	568.7	563.6	558.0	553.1	549.8	543.4
10°	580.4	580.9	579.7	575.3	567.7	564.6	558.5	552.3	546.0	541.9	534.7
12.5°	576.1	577.1	577.1	575.1	570.0	567.9	561.8	555.1	549.3	544.9	536.0
15°	575.3	576.6	578.9	578.6	577.1	575.6	570.7	564.1	559.0	553.9	542.9
17.5°	581.7	584.5	589.1	590.6	589.6	586.3	580.7	574.6	568.9	564.1	550.6
20°	597.8	599.3	606.2	609.3	604.2	599.3	591.9	584.0	578.9	575.1	557.7
22.5°	622.1	624.1	629.7	630.0	619.2	613.4	603.9	594.2	589.4	587.8	567.4
25°	660.9	660.4	661.9	655.5	636.1	629.2	617.7	606.5	603.2	606.2	581.7
27.5°	707.3	706.1	701.2	684.6	655.2	646.3	632.5	622.6	622.6	629.7	601.1
30°	761.0	759.7	743.9	716.0	678.0	667.8	653.2	642.7	648.1	661.9	627.4
32.5°	817.7	813.1	790.8	753.6	710.4	699.2	685.1	674.4	684.6	708.1	665.2
35°	871.0	868.5	841.1	797.0	752.3	742.8	733.1	719.9	736.2	772.7	718.6
37.5°	926.2	924.1	890.7	843.7	803.4	797.0	788.8	779.6	805.9	853.9	790.8
40°	987.7	983.6	941.5	894.5	862.9	859.8	855.4	852.9	895.3	966.8	882.3
42.5°	1057.4	1049.5	995.1	950.4	927.7	930.3	928.0	938.2	1003.0	1097.0	991.0
45°	1137.1	1121.3	1048.5	1009.9	999.5	1009.7	1014.5	1040.6	1130.5	1247.4	1112.6
47.5°	1211.7	1191.2	1107.0	1074.5	1080.4	1098.0	1111.8	1157.8	1270.1	1396.0	1236.7
50°	1280.4	1257.4	1169.5	1141.4	1170.0	1195.1	1223.7	1288.5	1418.8	1549.0	1350.6
52.5°	1331.2	1314.6	1232.1	1214.5	1273.0	1306.2	1351.9	1433.8	1568.9	1694.8	1452.2
55°	1370.5	1361.6	1293.1	1298.2	1389.4	1436.9	1492.3	1586.5	1727.8	1825.6	1533.9
57.5°	1416.0	1409.3	1362.8	1399.4	1533.9	1593.7	1659.1	1763.8	1878.9	1940.7	1598.0
60°	1464.0	1464.0	1440.5	1521.2	1714.7	1783.2	1848.3	1929.7	2029.6	2044.4	1624.1
62.5°	1500.2	1509.7	1518.1	1650.9	1886.3	1971.4	2042.9	2121.0	2185.6	2095.5	1562.8
65°	1552.8	1573.0	1620.5	1800.8	2098.8	2210.1	2306.6	2372.3	2312.0	2054.9	1362.8
67.5°	1643.2	1673.1	1774.2	2024.0	2424.1	2590.9	2684.6	2571.2	2287.2	1799.3	1043.9
70°	1724.7	1766.8	1939.7	2307.2	2847.0	3020.1	2977.0	2525.0	1992.0	1318.9	642.2
72°	1670.6	1716.5	1947.4	2430.5	3073.0	3154.7	2927.2	2237.7	1539.3	804.9	316.6
72.5°	1635.1	1682.8	1922.6	2427.4	3079.1	3137.6	2858.0	2123.6	1397.3	704.3	256.1
75°	1365.9	1406.8	1653.2	2151.4	2713.4	2606.2	2230.3	1374.3	642.2	227.5	131.8
77.5°	892.0	923.1	1139.9	1490.5	1900.6	1797.5	1357.5	643.5	240.8	138.1	99.1
80°	448.2	470.4	610.0	783.7	1025.8	943.8	626.6	311.3	161.1	99.8	77.9
82.5°	311.8	332.2	420.1	400.1	428.7	415.0	294.7	259.7	120.5	63.1	40.9
85°	261.5	282.7	347.5	285.2	233.4	212.7	211.2	245.4	79.7	31.2	34.5
87.5°	228.0	260.2	286.8	208.4	160.1	141.2	155.5	225.0	25.3	17.1	10.5
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°	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9	580.9
2.5°	569.7	568.9	565.1	559.2	554.9	552.1	546.7	546.5	547.0	542.4	544.2
5°	553.6	550.6	540.6	527.1	516.1	505.6	494.1	490.3	487.0	480.1	480.8
7.5°	536.8	531.4	514.0	491.8	470.6	451.2	432.1	422.6	415.5	406.5	406.5
10°	526.8	518.4	491.8	459.4	425.7	397.3	368.7	351.6	339.1	327.6	326.9
12.5°	526.3	513.5	476.5	431.8	385.6	345.8	306.7	280.4	261.7	248.2	246.9
15°	530.4	512.5	463.7	406.0	347.8	296.0	247.7	214.2	190.5	175.4	173.9
17.5°	534.0	511.2	449.9	379.0	311.0	248.0	194.3	159.6	137.1	124.9	123.6
20°	537.3	508.4	432.3	350.4	270.4	203.0	151.9	123.8	109.0	102.1	101.4
22.5°	542.1	505.9	413.9	318.2	230.6	165.2	125.4	105.2	97.3	94.0	93.5
25°	550.0	506.1	396.1	285.2	194.1	137.6	108.5	96.0	91.7	89.4	89.4
27.5°	561.5	509.2	378.4	251.8	163.2	118.7	98.6	91.2	88.4	86.6	86.1
30°	578.4	514.8	359.8	220.1	138.7	105.7	92.7	88.1	85.8	84.3	84.0
32.5°	602.9	524.8	340.1	191.3	120.0	96.5	88.4	85.5	83.8	82.5	82.2
35°	639.4	542.4	321.0	166.7	106.7	89.9	84.8	82.5	81.5	80.9	80.7
37.5°	693.0	570.7	302.9	147.6	98.1	85.5	81.2	79.9	79.4	79.4	79.4
40°	760.5	608.0	286.5	134.1	93.2	82.2	78.7	77.6	77.6	77.9	77.9
42.5°	842.4	654.7	272.5	124.9	90.4	79.9	76.9	76.4	76.1	76.1	76.4
45°	937.7	709.9	263.8	117.7	88.4	78.7	75.6	75.3	74.3	73.8	73.8
47.5°	1033.4	768.9	263.3	113.6	85.8	77.1	74.3	74.3	72.3	71.2	71.5
50°	1122.8	821.7	268.9	112.6	84.3	74.8	73.0	73.3	70.5	69.2	68.9
52.5°	1194.8	862.1	275.8	113.9	84.3	72.8	70.7	72.0	68.9	67.4	67.2
55°	1250.5	890.2	278.3	116.7	85.3	71.0	68.7	70.7	68.4	66.4	66.4
57.5°	1290.3	899.1	267.4	118.0	86.8	70.7	66.6	70.5	69.2	66.6	66.6
60°	1275.8	847.3	226.5	113.1	86.6	70.2	65.1	71.0	71.8	68.9	68.9
62.5°	1162.1	708.9	181.8	102.1	82.2	68.4	63.3	70.5	73.5	72.5	72.0
65°	946.1	519.9	141.0	89.1	74.8	64.6	59.5	65.9	69.5	70.5	70.7
67.5°	666.7	329.2	109.5	75.8	65.6	59.0	55.2	58.2	59.5	60.0	61.0
70°	364.7	178.2	87.1	63.8	56.2	53.4	50.6	50.8	50.3	49.8	50.3
72°	183.1	116.4	73.5	55.4	49.8	48.0	46.7	46.0	46.0	45.2	45.5
72.5°	157.6	108.3	71.0	53.4	48.3	46.7	45.7	44.9	44.7	44.2	44.4
75°	105.0	85.8	59.2	44.7	41.1	40.1	40.6	39.8	40.1	39.6	39.8
77.5°	84.8	73.8	50.3	37.8	35.2	33.7	34.7	35.0	35.5	35.0	34.7
80°	71.0	62.8	42.1	31.2	29.4	28.1	28.6	30.4	30.6	29.1	28.9
82.5°	46.0	50.6	33.2	24.3	22.5	22.0	23.2	25.0	25.5	23.5	23.0
85°	38.6	40.6	24.0	16.6	14.8	14.3	16.9	18.6	19.9	17.9	17.4
87.5°	10.7	19.9	11.7	7.9	6.6	6.6	8.2	9.7	11.5	11.7	11.7
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)