

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: P198564

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198564  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24285)  
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-SL4-7030-800-HSS  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3525 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1  
  
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

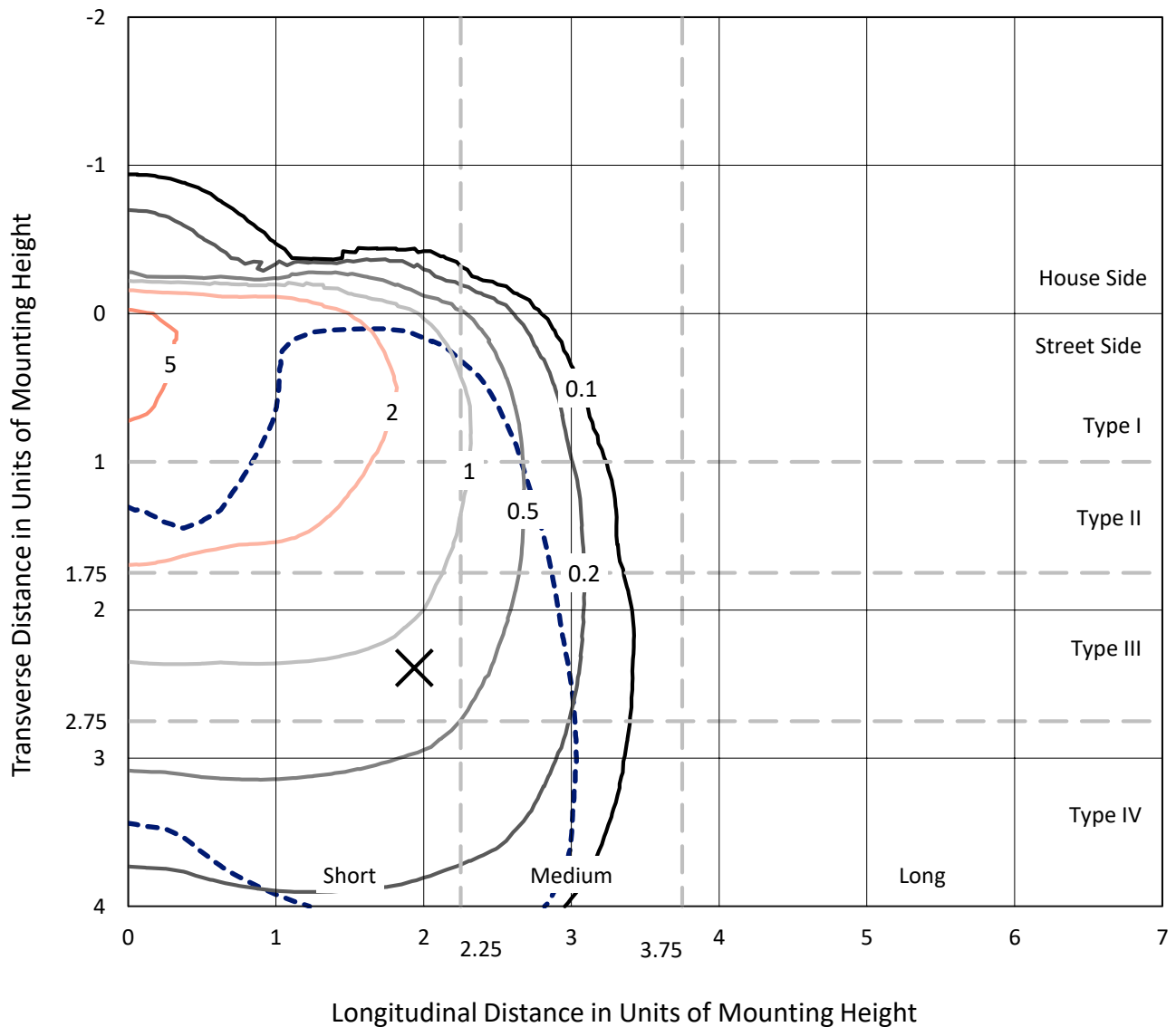


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

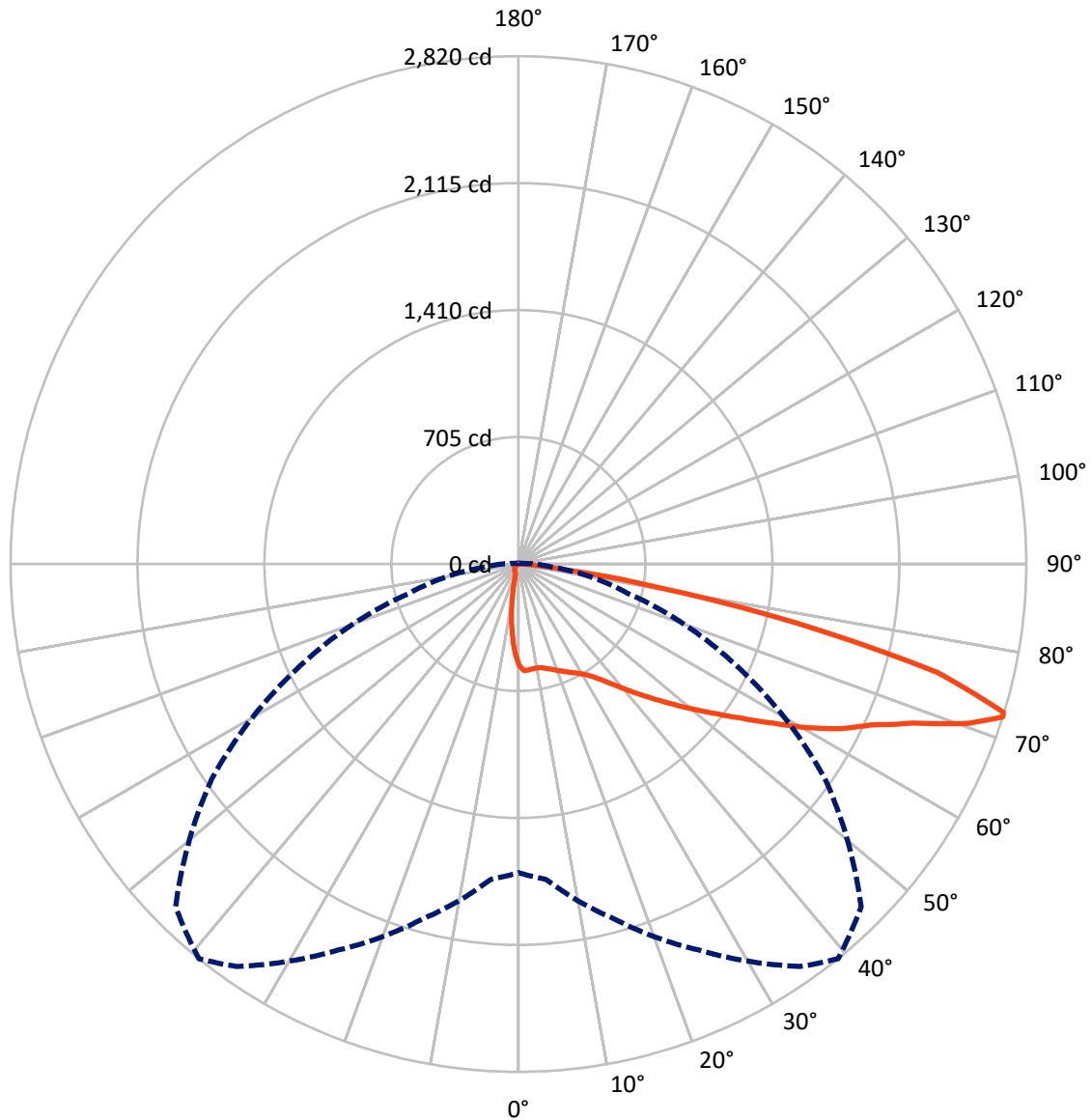


Based on 10 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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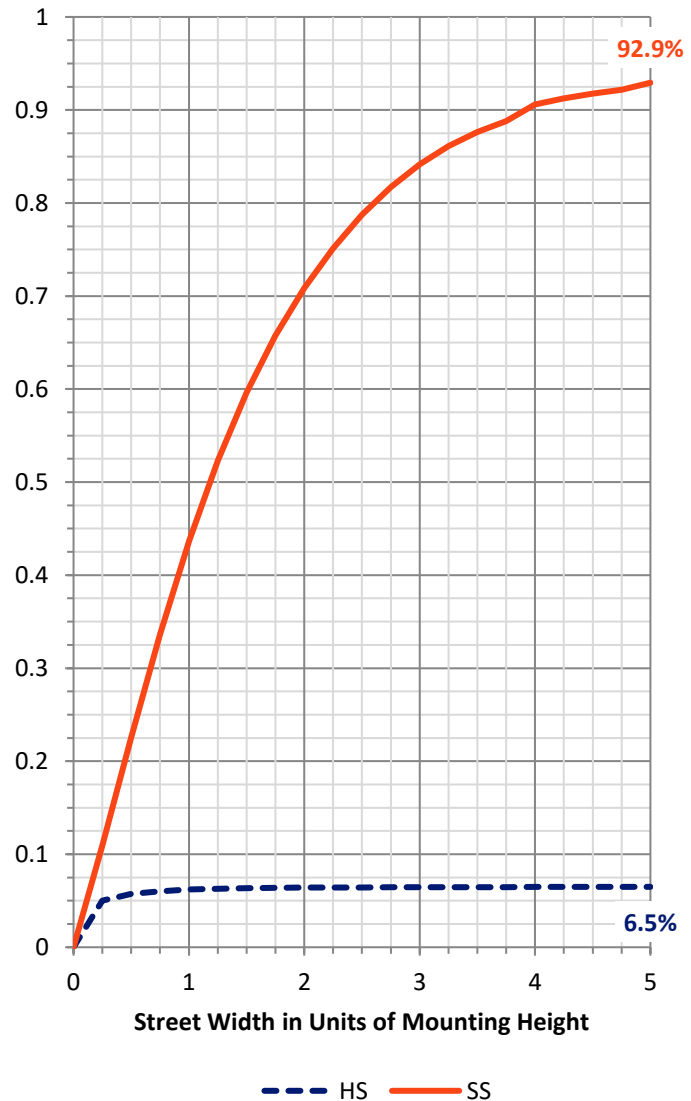
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	231.0	0.0	231.0
	% Fixture	6.6	0.0	6.6
<b>Street Side</b>	Lumens	3294.0	0.0	3294.0
	% Fixture	93.4	0.0	93.4
<b>Total</b>	Lumens	3525.0	0.0	3525.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.9	1.3
10°-20°	111.1	3.2
20°-30°	184.5	5.2
30°-40°	294.1	8.3
40°-50°	485.4	13.8
50°-60°	733.1	20.8
60°-70°	955.0	27.1
70°-80°	645.3	18.3
80°-90°	70.7	2.0
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°	3525.0	100.0
0°-180°	3525.0	100.0

**Coefficient of Utilization**



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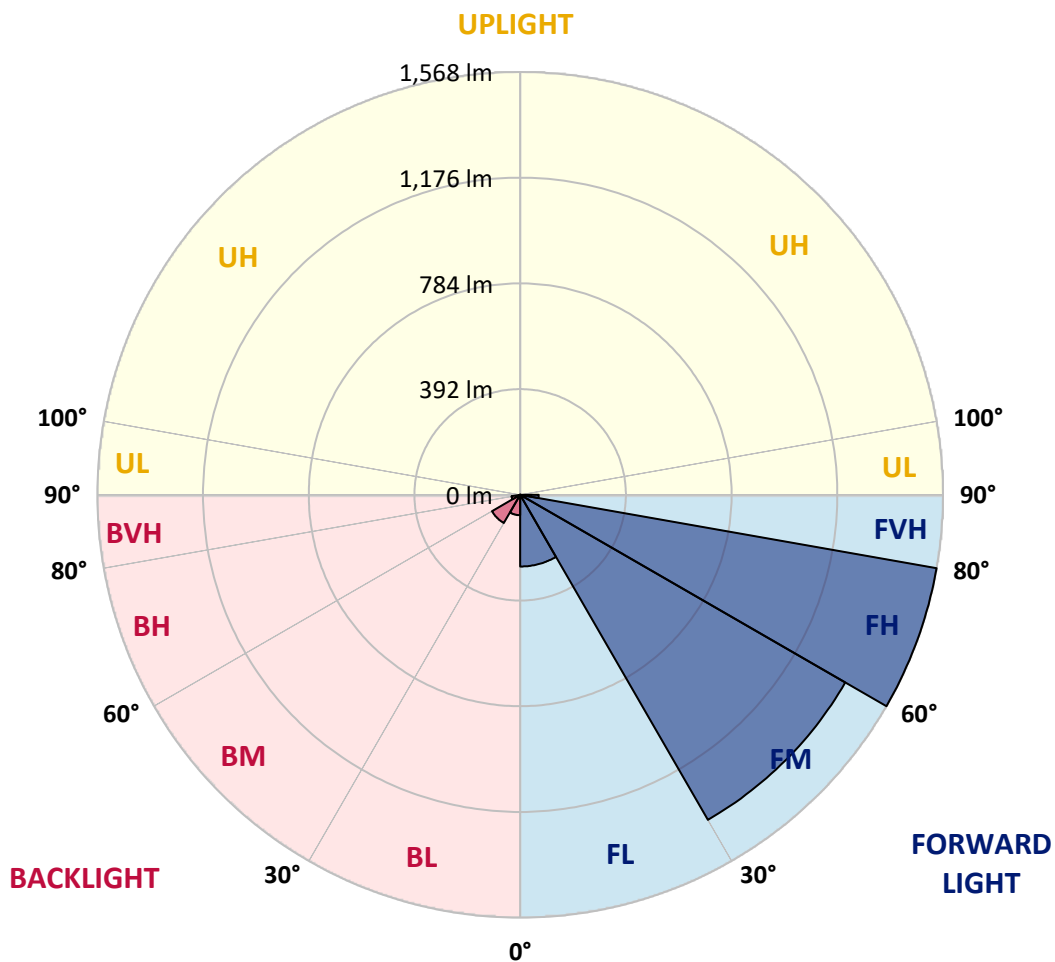
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	265.9	7.5			
FM	(30°-60°)	1391.7	39.5			
FH	(60°-80°)	1567.8	44.5			G1/1800
FVH	(80°-90°)	68.6	1.9			G1/100
BL	(0°-30°)	75.6	2.1	B0/110		
BM	(30°-60°)	120.9	3.4	B0/220		
BH	(60°-80°)	32.5	0.9	B0/110		G0/110
BVH	(80°-90°)	2.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2
2.5°	600.8	601.9	600.5	598.0	594.4	592.2	589.1	582.5	574.2	567.0	558.7
5°	605.5	606.0	604.4	599.7	594.1	591.1	587.2	580.0	571.4	561.4	546.5
7.5°	606.9	606.6	604.7	598.8	590.2	586.4	579.7	570.8	562.0	552.8	535.9
10°	606.3	606.3	604.9	599.4	589.7	586.1	578.6	569.2	558.1	549.0	530.9
12.5°	604.4	605.5	604.7	601.6	594.4	591.6	585.0	575.6	565.0	555.6	536.5
15°	606.9	608.5	610.2	609.1	604.9	602.4	596.3	586.6	578.1	568.1	547.6
17.5°	616.9	620.5	624.3	624.6	620.2	615.7	608.8	598.8	590.5	581.4	559.2
20°	635.7	638.5	645.7	647.1	638.2	631.8	622.1	610.5	602.2	594.4	570.0
22.5°	663.7	666.7	672.5	670.6	655.6	648.2	636.0	622.7	614.1	609.6	582.5
25°	706.1	706.9	708.3	699.7	675.0	666.7	651.8	636.8	629.9	629.3	600.2
27.5°	756.0	757.1	751.0	731.9	696.7	685.9	668.9	655.4	652.0	656.2	622.7
30°	813.0	813.3	796.4	765.4	721.6	709.7	692.2	677.3	680.3	690.6	651.5
32.5°	871.5	868.7	845.5	805.0	755.7	741.3	726.3	711.3	720.2	741.0	693.6
35°	925.0	923.9	896.5	849.3	800.0	787.3	776.5	760.7	775.1	808.9	751.0
37.5°	978.5	977.6	946.3	897.3	854.6	845.5	837.4	825.2	848.8	898.4	827.7
40°	1037.5	1036.1	997.6	950.5	918.1	913.1	908.4	903.1	943.3	1012.3	923.3
42.5°	1110.4	1104.3	1051.9	1008.4	987.9	989.3	989.6	994.8	1057.7	1147.8	1036.1
45°	1194.1	1180.5	1106.5	1070.5	1064.7	1073.0	1081.3	1103.2	1191.0	1303.8	1160.8
47.5°	1275.3	1253.4	1169.4	1137.3	1149.2	1166.4	1186.3	1229.0	1340.7	1467.0	1273.9
50°	1345.1	1322.7	1231.8	1205.2	1243.1	1268.6	1304.1	1368.7	1498.6	1605.0	1345.1
52.5°	1400.0	1382.2	1297.7	1280.0	1347.3	1382.2	1437.9	1522.7	1647.7	1695.9	1395.0
55°	1440.4	1431.6	1360.9	1363.4	1463.1	1513.6	1582.9	1678.7	1773.5	1766.6	1432.4
57.5°	1486.1	1479.2	1427.1	1461.8	1602.5	1667.7	1747.7	1824.8	1865.0	1823.4	1469.0
60°	1533.0	1535.2	1507.5	1580.9	1774.9	1846.9	1916.8	1935.9	1943.4	1881.0	1507.5
62.5°	1568.5	1577.9	1580.4	1709.5	1951.7	2013.2	2043.4	2029.8	2028.2	1958.3	1504.4
65°	1609.2	1633.8	1674.9	1850.6	2112.4	2152.9	2174.5	2194.2	2152.6	1981.3	1356.5
67.5°	1679.6	1718.4	1810.6	2023.5	2298.1	2357.9	2419.2	2398.4	2171.2	1747.7	1033.3
70°	1774.3	1821.7	1984.7	2249.3	2550.0	2650.3	2701.6	2382.1	1843.3	1207.7	545.1
72°	1714.5	1757.4	2038.4	2364.6	2728.4	2820.4	2692.1	2077.8	1336.2	626.0	182.6
72.5°	1656.3	1700.6	2021.3	2363.2	2746.2	2816.6	2630.9	1957.8	1182.4	487.2	125.8
75°	1149.2	1205.2	1732.8	2124.3	2479.9	2402.6	2012.9	1185.5	428.4	83.7	41.6
77.5°	594.1	637.4	1051.1	1501.1	1728.3	1582.9	1189.6	514.3	118.6	44.3	27.4
80°	368.3	389.6	491.6	739.6	897.8	785.3	524.8	207.8	75.9	26.3	21.9
82.5°	190.7	207.0	309.5	298.4	331.7	275.7	193.7	174.0	46.8	16.3	22.4
85°	62.6	66.5	190.1	198.4	141.9	95.3	85.9	166.0	13.6	10.5	19.1
87.5°	8.3	9.7	66.8	113.6	69.8	43.2	51.5	58.5	4.7	5.8	5.3
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°	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2	564.2
2.5°	553.1	549.5	538.2	526.8	513.8	501.8	492.4	486.3	489.1	480.0	481.3
5°	537.3	528.2	503.2	476.4	447.3	420.1	398.5	382.4	379.4	365.5	366.1
7.5°	522.1	507.1	466.7	422.3	374.1	335.0	299.6	268.5	257.4	246.1	239.4
10°	513.8	493.3	435.9	371.3	303.4	246.1	196.2	157.1	140.8	128.9	123.0
12.5°	516.3	489.1	412.9	325.1	235.8	162.9	110.8	82.3	72.3	66.8	64.8
15°	524.6	489.9	392.1	279.9	171.5	98.7	65.1	55.7	54.9	54.6	54.3
17.5°	532.3	490.8	370.2	232.8	114.7	62.9	52.4	51.5	51.5	51.5	51.5
20°	540.4	491.0	346.1	183.4	75.4	51.5	49.3	48.8	49.3	49.3	49.3
22.5°	549.8	493.0	322.8	135.5	55.7	48.5	47.1	46.8	47.1	47.1	46.8
25°	561.4	497.1	297.6	97.0	50.4	46.6	45.2	44.9	45.2	44.9	44.9
27.5°	576.9	502.7	268.2	69.6	48.2	44.6	43.2	43.2	43.2	43.0	43.0
30°	596.9	509.3	228.9	54.9	46.0	42.7	41.6	41.6	41.3	41.0	41.0
32.5°	625.4	520.1	185.9	49.6	43.5	40.2	39.1	39.3	39.1	38.8	38.5
35°	665.9	537.0	143.5	46.8	41.0	37.7	36.6	36.6	36.6	36.0	36.0
37.5°	723.3	562.8	107.5	44.1	38.5	35.2	33.8	33.8	33.5	33.0	33.3
40°	794.2	595.2	77.9	41.6	36.0	32.4	31.3	30.8	30.2	29.7	29.7
42.5°	879.6	626.8	58.5	39.1	33.5	30.2	28.8	28.3	27.2	26.6	26.3
45°	975.2	660.4	48.5	36.0	30.8	27.7	26.6	25.5	24.1	23.3	23.0
47.5°	1055.8	680.9	43.2	33.0	28.0	25.2	24.1	22.4	20.8	20.2	20.2
50°	1104.3	672.3	38.8	29.9	25.2	22.7	21.3	19.1	18.0	17.5	17.2
52.5°	1131.4	646.8	35.2	27.4	22.7	20.0	18.0	16.1	15.5	15.0	15.0
55°	1150.0	609.9	31.3	24.9	20.5	17.5	15.2	13.9	13.3	13.0	12.7
57.5°	1167.7	565.0	27.7	22.7	18.3	15.5	13.0	12.5	11.4	11.1	11.1
60°	1173.0	503.2	24.4	20.2	16.3	13.6	11.4	10.5	9.4	9.1	9.1
62.5°	1106.0	400.4	21.6	17.2	14.4	11.6	10.0	8.9	7.8	7.8	7.8
65°	924.2	271.8	18.6	15.0	12.7	10.0	8.6	7.2	6.7	6.7	6.7
67.5°	643.7	151.6	15.8	12.7	10.8	8.3	7.2	6.1	5.8	6.1	6.1
70°	290.1	60.1	13.3	10.5	8.9	6.9	6.1	5.3	5.8	5.8	5.8
72°	87.0	32.1	11.1	8.6	7.2	6.1	5.3	5.0	5.5	5.8	5.8
72.5°	64.6	28.8	10.5	8.3	7.2	5.8	5.0	5.0	5.5	5.8	5.8
75°	33.3	19.7	8.0	6.1	5.3	4.7	4.2	4.7	5.5	5.5	5.5
77.5°	26.0	16.1	6.7	4.7	4.4	4.2	3.9	4.4	5.0	5.0	5.0
80°	24.4	10.5	5.3	4.4	3.9	3.6	3.6	3.9	4.4	4.7	4.7
82.5°	24.7	8.6	4.7	4.2	3.6	3.3	3.3	3.6	4.2	4.4	4.4
85°	15.8	5.8	4.2	3.6	3.3	3.0	3.0	3.3	3.9	4.2	4.2
87.5°	5.3	4.4	3.6	3.3	2.8	2.8	2.8	2.8	3.3	3.6	3.9
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)