

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: P199208

Luminaire Tested: **XNV-AF-01-LED-U-SL4-8030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199208  
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-SL4-8030-1200-HSS  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 1200mA 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: 4410 lumens  
Efficiency: N/A  
Efficacy: 66.8 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 - G2

Input Watts (W): 66  
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

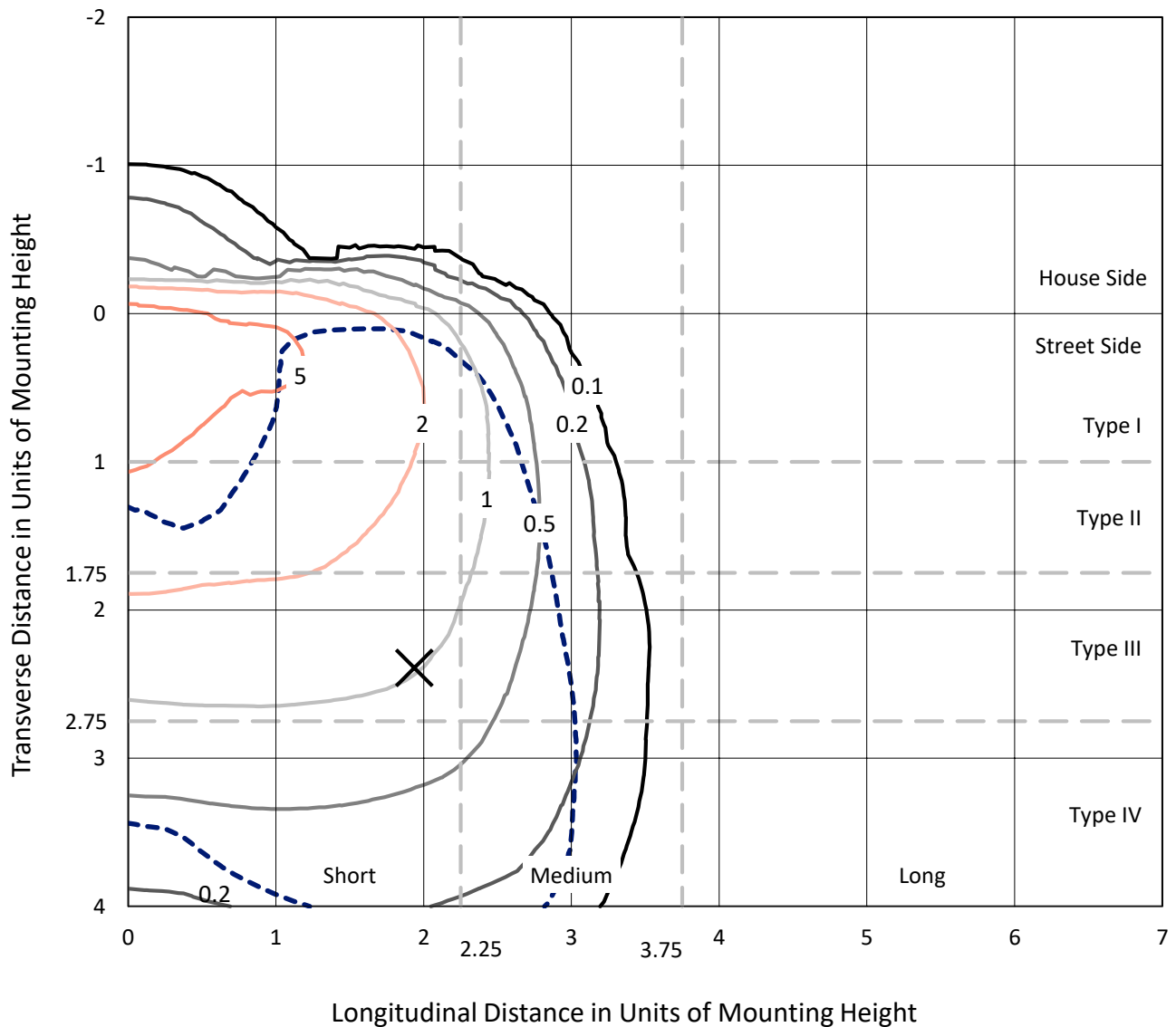


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

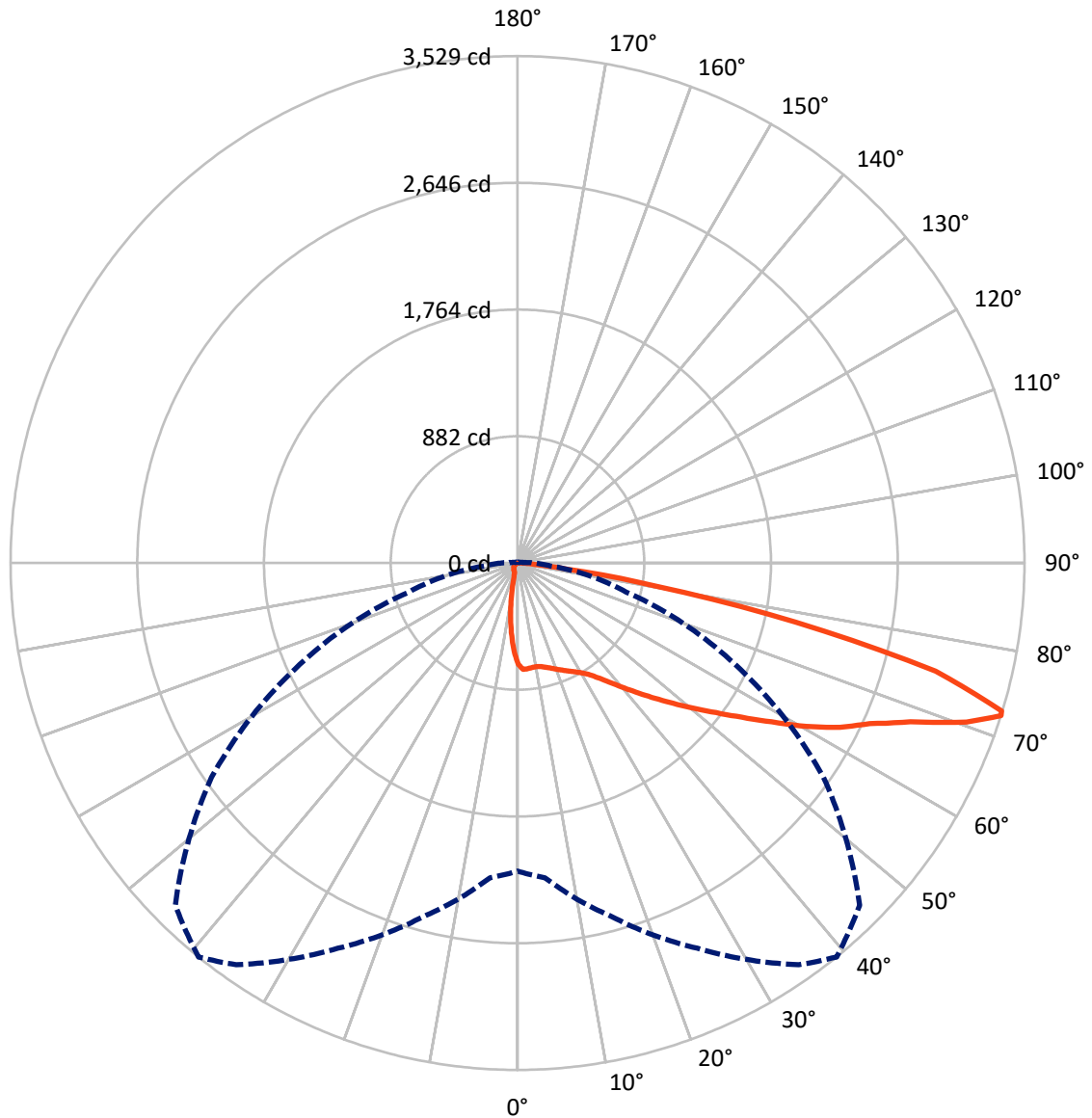


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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



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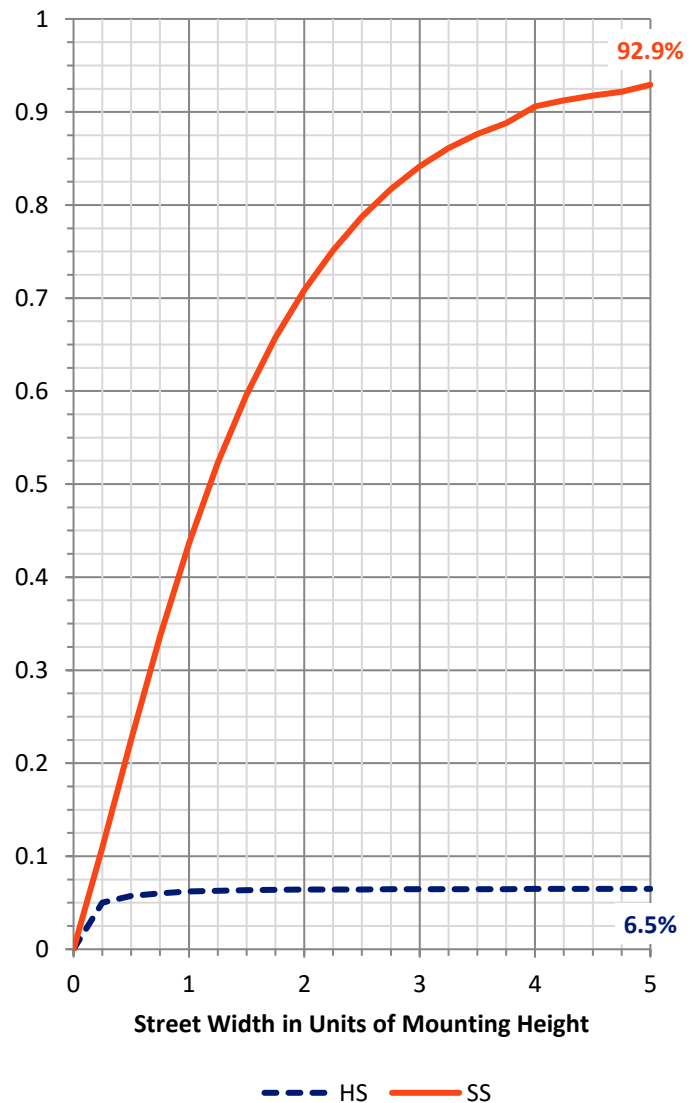
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	289.0	0.0	289.0
	% Fixture	6.6	0.0	6.6
<b>Street Side</b>	Lumens	4121.0	0.0	4121.0
	% Fixture	93.4	0.0	93.4
<b>Total</b>	Lumens	4410.0	0.0	4410.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.4	1.3
10°-20°	139.0	3.2
20°-30°	230.8	5.2
30°-40°	367.9	8.3
40°-50°	607.3	13.8
50°-60°	917.1	20.8
60°-70°	1194.7	27.1
70°-80°	807.3	18.3
80°-90°	88.4	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°	4410.0	100.0
0°-180°	4410.0	100.0

**Coefficient of Utilization**



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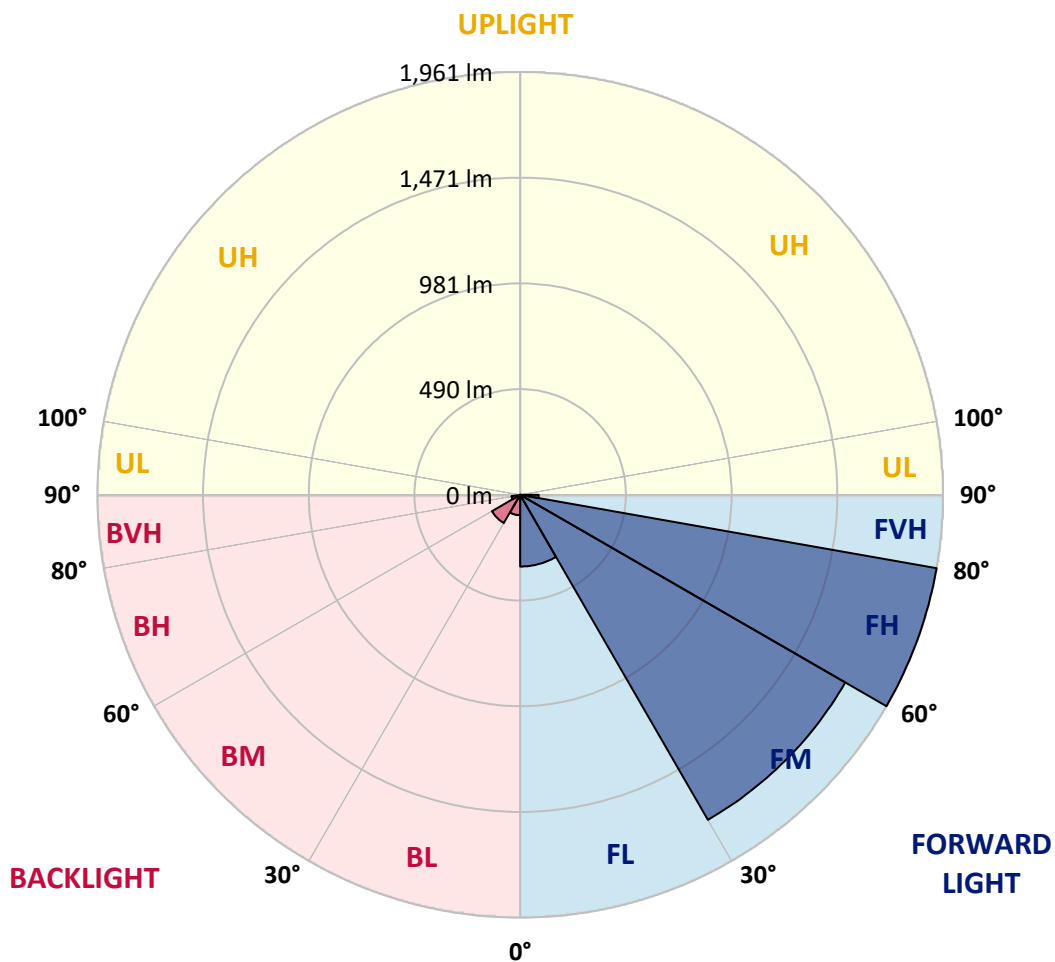
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	332.6	7.5			
FM	(30°-60°)	1741.1	39.5			
FH	(60°-80°)	1961.4	44.5			G2/5000
FVH	(80°-90°)	85.9	1.9			G1/100
BL	(0°-30°)	94.6	2.1	B0/110		
BM	(30°-60°)	151.2	3.4	B0/220		
BH	(60°-80°)	40.6	0.9	B0/110		G0/110
BVH	(80°-90°)	2.5	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8
2.5°	751.6	753.0	751.3	748.1	743.6	740.9	737.1	728.7	718.3	709.3	698.9
5°	757.5	758.2	756.1	750.2	743.3	739.5	734.6	725.6	714.9	702.4	683.7
7.5°	759.2	758.9	756.5	749.2	738.4	733.6	725.3	714.2	703.1	691.6	670.5
10°	758.5	758.5	756.8	749.9	737.7	733.2	723.9	712.1	698.2	686.8	664.2
12.5°	756.1	757.5	756.5	752.7	743.6	740.2	731.9	720.1	706.9	695.1	671.2
15°	759.2	761.3	763.4	762.0	756.8	753.7	746.1	733.9	723.2	710.7	685.0
17.5°	771.7	776.2	781.1	781.4	775.9	770.3	761.7	749.2	738.8	727.3	699.6
20°	795.3	798.8	807.8	809.5	798.4	790.4	778.3	763.7	753.3	743.6	713.1
22.5°	830.3	834.1	841.4	839.0	820.3	810.9	795.6	779.0	768.3	762.7	728.7
25°	883.4	884.4	886.1	875.4	844.5	834.1	815.4	796.7	788.0	787.3	750.9
27.5°	945.8	947.1	939.5	915.6	871.6	858.0	836.9	819.9	815.7	820.9	779.0
30°	1017.2	1017.5	996.4	957.5	902.8	887.9	866.0	847.3	851.1	863.9	815.1
32.5°	1090.3	1086.9	1057.7	1007.1	945.4	927.4	908.7	889.9	901.0	927.0	867.8
35°	1157.2	1155.8	1121.5	1062.6	1000.9	984.9	971.4	951.6	969.7	1012.0	939.5
37.5°	1224.1	1223.1	1183.9	1122.6	1069.2	1057.7	1047.7	1032.4	1061.9	1124.0	1035.5
40°	1298.0	1296.3	1248.1	1189.1	1148.6	1142.3	1136.4	1129.8	1180.1	1266.4	1155.2
42.5°	1389.2	1381.5	1316.0	1261.6	1235.9	1237.7	1238.0	1244.6	1323.3	1436.0	1296.3
45°	1493.9	1476.9	1384.3	1339.2	1332.0	1342.4	1352.8	1380.1	1490.0	1631.1	1452.3
47.5°	1595.4	1568.1	1463.0	1422.8	1437.7	1459.2	1484.2	1537.5	1677.3	1835.3	1593.7
50°	1682.8	1654.7	1541.0	1507.7	1555.2	1587.1	1631.5	1712.3	1874.9	2008.0	1682.8
52.5°	1751.4	1729.3	1623.5	1601.3	1685.6	1729.3	1798.9	1905.0	2061.4	2121.7	1745.2
55°	1802.1	1791.0	1702.6	1705.7	1830.5	1893.6	1980.3	2100.2	2218.8	2210.1	1792.0
57.5°	1859.3	1850.6	1785.4	1828.8	2004.9	2086.3	2186.5	2282.9	2333.2	2281.2	1837.8
60°	1917.9	1920.6	1886.0	1977.8	2220.5	2310.7	2398.0	2421.9	2431.3	2353.3	1886.0
62.5°	1962.2	1974.0	1977.1	2138.7	2441.7	2518.7	2556.4	2539.5	2537.4	2450.0	1882.1
65°	2013.2	2044.1	2095.4	2315.2	2642.8	2693.4	2720.4	2745.0	2693.0	2478.8	1697.0
67.5°	2101.3	2149.8	2265.2	2531.5	2875.1	2949.9	3026.6	3000.6	2716.3	2186.5	1292.8
70°	2219.8	2279.1	2483.0	2814.0	3190.2	3315.7	3379.8	2980.1	2306.1	1510.8	681.9
72°	2144.9	2198.7	2550.2	2958.3	3413.5	3528.6	3368.0	2599.4	1671.7	783.2	228.5
72.5°	2072.1	2127.6	2528.7	2956.5	3435.6	3523.7	3291.4	2449.3	1479.3	609.5	157.4
75°	1437.7	1507.7	2167.8	2657.7	3102.5	3005.8	2518.3	1483.1	536.0	104.7	52.0
77.5°	743.3	797.4	1315.0	1878.0	2162.3	1980.3	1488.3	643.4	148.4	55.5	34.3
80°	460.7	487.4	615.0	925.3	1123.3	982.5	656.6	260.0	95.0	32.9	27.4
82.5°	238.5	259.0	387.2	373.4	415.0	345.0	242.3	217.7	58.6	20.5	28.1
85°	78.4	83.2	237.8	248.2	177.5	119.3	107.5	207.7	17.0	13.2	23.9
87.5°	10.4	12.1	83.6	142.1	87.4	54.1	64.5	73.2	5.9	7.3	6.6
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°	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8	705.8
2.5°	692.0	687.5	673.3	659.0	642.8	627.8	616.1	608.4	611.9	600.5	602.2
5°	672.2	660.8	629.6	596.0	559.5	525.6	498.5	478.4	474.6	457.3	458.0
7.5°	653.2	634.4	583.8	528.3	468.0	419.1	374.8	335.9	322.1	307.9	299.5
10°	642.8	617.1	545.3	464.6	379.6	307.9	245.5	196.6	176.1	161.2	153.9
12.5°	645.9	611.9	516.6	406.7	295.0	203.9	138.7	103.0	90.5	83.6	81.1
15°	656.3	612.9	490.6	350.2	214.6	123.4	81.5	69.7	68.6	68.3	68.0
17.5°	666.0	614.0	463.2	291.2	143.5	78.7	65.5	64.5	64.5	64.5	64.5
20°	676.0	614.3	433.0	229.5	94.3	64.5	61.7	61.0	61.7	61.7	61.7
22.5°	687.8	616.8	403.9	169.5	69.7	60.7	58.9	58.6	58.9	58.9	58.6
25°	702.4	622.0	372.3	121.3	63.1	58.2	56.5	56.2	56.5	56.2	56.2
27.5°	721.8	628.9	335.6	87.0	60.3	55.8	54.1	54.1	54.1	53.7	53.7
30°	746.8	637.2	286.4	68.6	57.5	53.4	52.0	52.0	51.7	51.3	51.3
32.5°	782.5	650.7	232.6	62.1	54.4	50.3	48.9	49.2	48.9	48.5	48.2
35°	833.1	671.9	179.6	58.6	51.3	47.1	45.8	45.8	45.8	45.1	45.1
37.5°	904.8	704.1	134.5	55.1	48.2	44.0	42.3	42.3	41.9	41.3	41.6
40°	993.6	744.7	97.4	52.0	45.1	40.6	39.2	38.5	37.8	37.1	37.1
42.5°	1100.4	784.2	73.2	48.9	41.9	37.8	36.1	35.4	34.0	33.3	32.9
45°	1220.0	826.1	60.7	45.1	38.5	34.7	33.3	31.9	30.2	29.1	28.8
47.5°	1320.9	851.8	54.1	41.3	35.0	31.5	30.2	28.1	26.0	25.3	25.3
50°	1381.5	841.1	48.5	37.4	31.5	28.4	26.7	23.9	22.5	21.8	21.5
52.5°	1415.5	809.2	44.0	34.3	28.4	25.0	22.5	20.1	19.4	18.7	18.7
55°	1438.7	763.1	39.2	31.2	25.7	21.8	19.1	17.3	16.6	16.3	15.9
57.5°	1460.9	706.9	34.7	28.4	22.9	19.4	16.3	15.6	14.2	13.9	13.9
60°	1467.5	629.6	30.5	25.3	20.5	17.0	14.2	13.2	11.8	11.4	11.4
62.5°	1383.6	501.0	27.0	21.5	18.0	14.6	12.5	11.1	9.7	9.7	9.7
65°	1156.2	340.1	23.2	18.7	15.9	12.5	10.7	9.0	8.3	8.3	8.3
67.5°	805.3	189.6	19.8	15.9	13.5	10.4	9.0	7.6	7.3	7.6	7.6
70°	363.0	75.2	16.6	13.2	11.1	8.7	7.6	6.6	7.3	7.3	7.3
72°	108.9	40.2	13.9	10.7	9.0	7.6	6.6	6.2	6.9	7.3	7.3
72.5°	80.8	36.1	13.2	10.4	9.0	7.3	6.2	6.2	6.9	7.3	7.3
75°	41.6	24.6	10.1	7.6	6.6	5.9	5.2	5.9	6.9	6.9	6.9
77.5°	32.6	20.1	8.3	5.9	5.5	5.2	4.9	5.5	6.2	6.2	6.2
80°	30.5	13.2	6.6	5.5	4.9	4.5	4.5	4.9	5.5	5.9	5.9
82.5°	30.9	10.7	5.9	5.2	4.5	4.2	4.2	4.5	5.2	5.5	5.5
85°	19.8	7.3	5.2	4.5	4.2	3.8	3.8	4.2	4.9	5.2	5.2
87.5°	6.6	5.5	4.5	4.2	3.5	3.5	3.5	3.5	4.2	4.5	4.9
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)