

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: P198566

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198566  
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-HSS  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA 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: 4362 lumens  
Efficiency: N/A  
Efficacy: 75.2 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

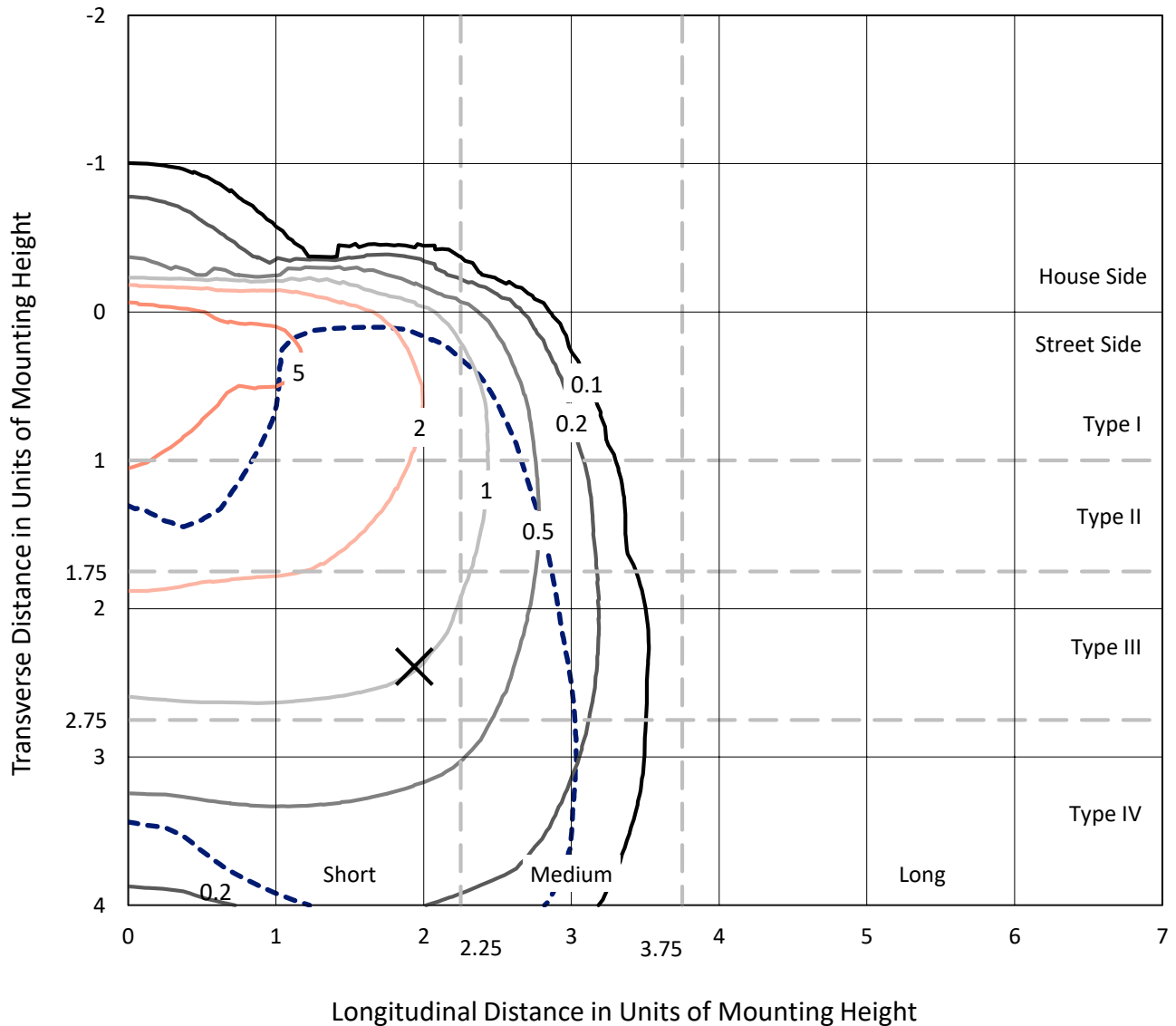
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

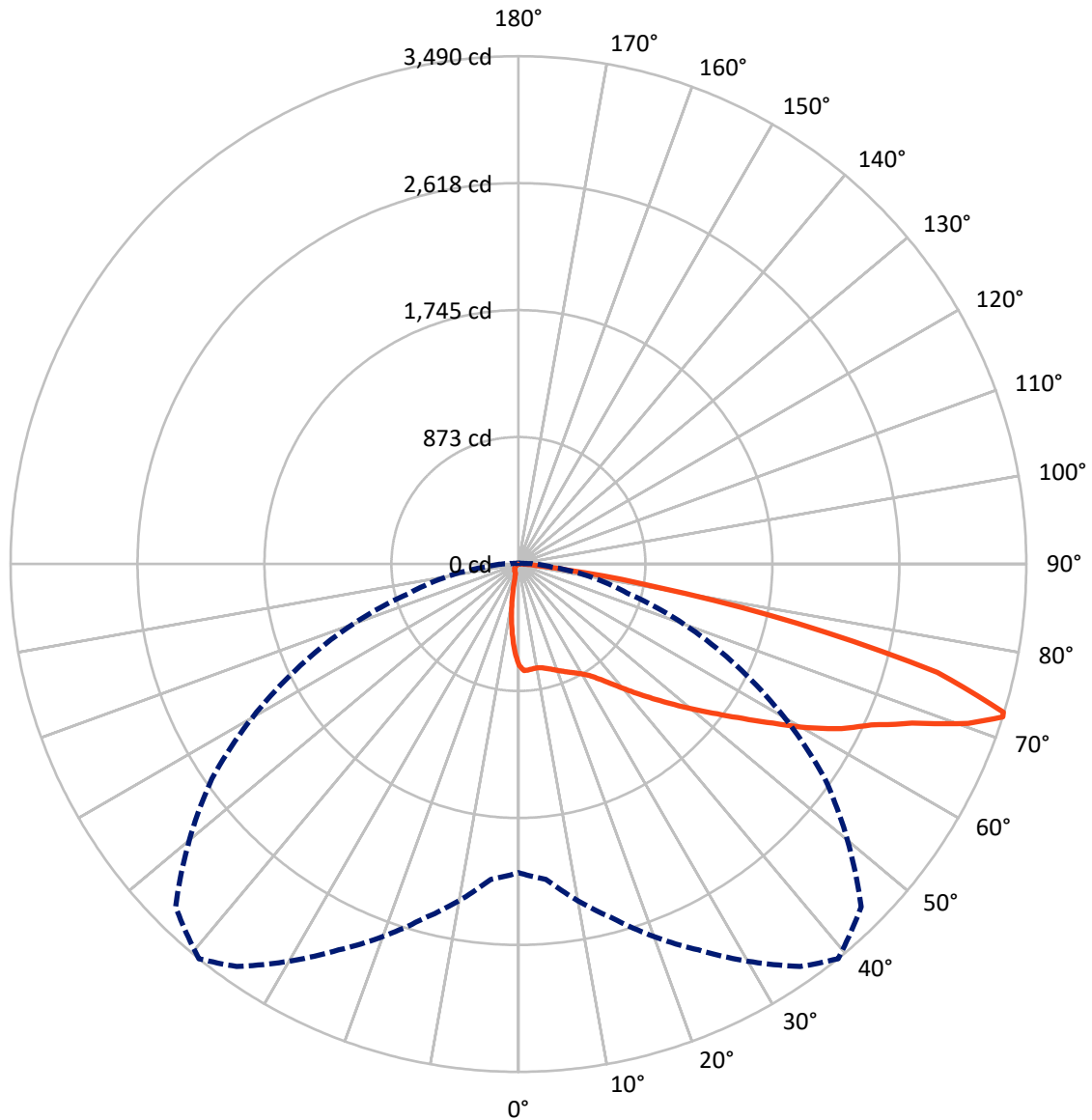
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 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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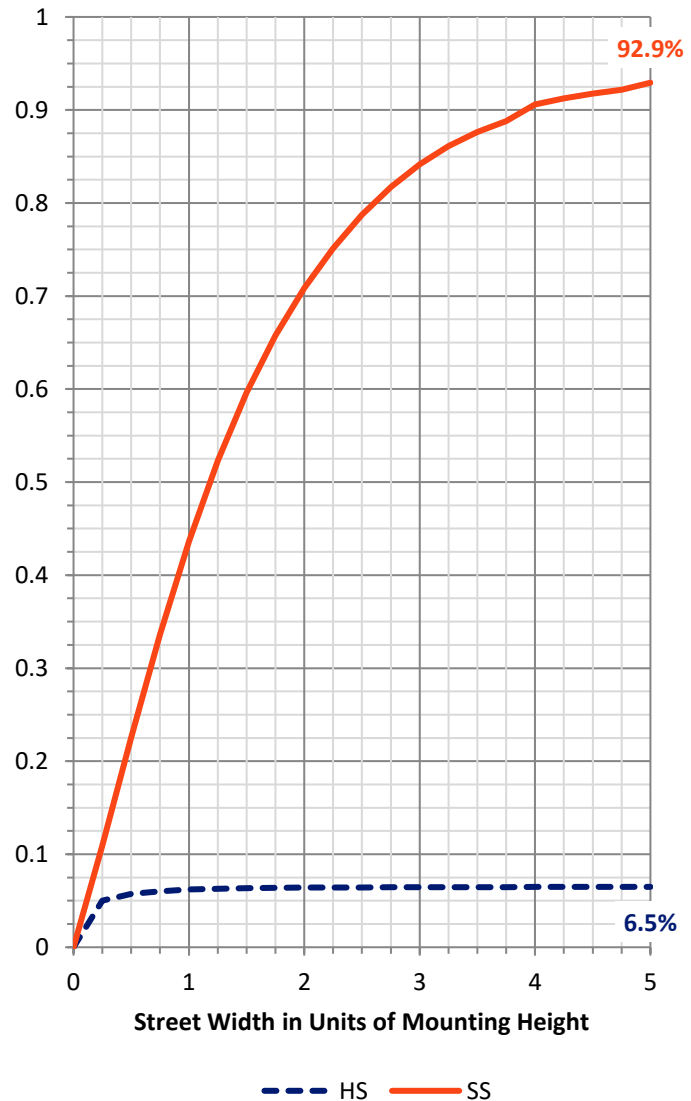
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	285.9	0.0	285.9
	% Fixture	6.6	0.0	6.6
<b>Street Side</b>	Lumens	4076.1	0.0	4076.1
	% Fixture	93.4	0.0	93.4
<b>Total</b>	Lumens	4362.0	0.0	4362.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.8	1.3
10°-20°	137.5	3.2
20°-30°	228.3	5.2
30°-40°	363.9	8.3
40°-50°	600.7	13.8
50°-60°	907.1	20.8
60°-70°	1181.7	27.1
70°-80°	798.5	18.3
80°-90°	87.4	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°	4362.0	100.0
0°-180°	4362.0	100.0

**Coefficient of Utilization**



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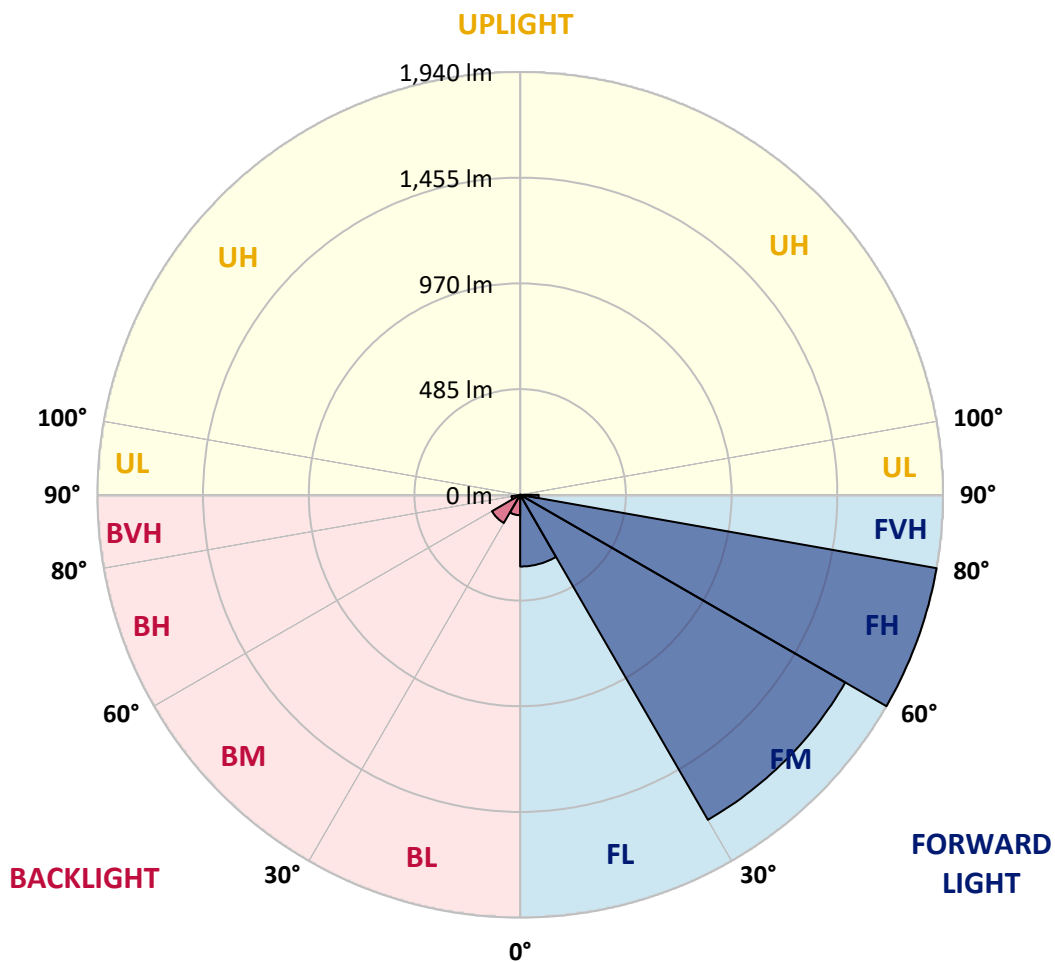
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	329.0	7.5			
FM	(30°-60°)	1722.2	39.5			
FH	(60°-80°)	1940.0	44.5			G2/5000
FVH	(80°-90°)	84.9	1.9			G1/100
BL	(0°-30°)	93.6	2.1	B0/110		
BM	(30°-60°)	149.6	3.4	B0/220		
BH	(60°-80°)	40.2	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°	698.2	698.2	698.2	698.2	698.2	698.2	698.2	698.2	698.2	698.2	698.2
2.5°	743.4	744.8	743.1	740.0	735.5	732.8	729.0	720.8	710.5	701.6	691.3
5°	749.3	749.9	747.9	742.1	735.2	731.4	726.6	717.7	707.1	694.7	676.2
7.5°	751.0	750.6	748.2	741.0	730.4	725.6	717.4	706.4	695.4	684.1	663.2
10°	750.3	750.3	748.6	741.7	729.7	725.3	716.0	704.3	690.6	679.3	657.0
12.5°	747.9	749.3	748.2	744.5	735.5	732.1	723.9	712.2	699.2	687.5	663.9
15°	751.0	753.0	755.1	753.7	748.6	745.5	737.9	725.9	715.3	703.0	677.6
17.5°	763.3	767.8	772.6	772.9	767.4	761.9	753.4	741.0	730.7	719.4	692.0
20°	786.6	790.1	799.0	800.7	789.7	781.8	769.8	755.4	745.1	735.5	705.4
22.5°	821.3	825.0	832.2	829.8	811.3	802.1	787.0	770.5	759.9	754.4	720.8
25°	873.7	874.8	876.5	865.8	835.3	825.0	806.5	788.0	779.4	778.8	742.7
27.5°	935.5	936.8	929.3	905.6	862.1	848.7	827.8	811.0	806.9	812.0	770.5
30°	1006.1	1006.4	985.5	947.1	892.9	878.2	856.6	838.1	841.8	854.5	806.2
32.5°	1078.5	1075.0	1046.2	996.2	935.1	917.3	898.8	880.3	891.2	916.9	858.3
35°	1144.6	1143.3	1109.3	1051.0	990.0	974.2	960.8	941.3	959.1	1001.0	929.3
37.5°	1210.8	1209.8	1171.0	1110.3	1057.5	1046.2	1036.3	1021.2	1050.3	1111.7	1024.3
40°	1283.9	1282.1	1234.5	1176.2	1136.1	1129.9	1124.1	1117.5	1167.3	1252.7	1142.6
42.5°	1374.0	1366.5	1301.7	1247.9	1222.5	1224.2	1224.5	1231.0	1308.9	1420.3	1282.1
45°	1477.6	1460.8	1369.2	1324.7	1317.5	1327.8	1338.0	1365.1	1473.8	1613.4	1436.5
47.5°	1578.1	1551.0	1447.1	1407.3	1422.1	1443.3	1468.0	1520.8	1659.0	1815.4	1576.4
50°	1664.5	1636.7	1524.2	1491.3	1538.3	1569.8	1613.7	1693.6	1854.5	1986.1	1664.5
52.5°	1732.4	1710.4	1605.9	1583.9	1667.2	1710.4	1779.4	1884.3	2038.9	2098.6	1726.2
55°	1782.5	1771.5	1684.0	1687.1	1810.6	1873.0	1958.7	2077.4	2194.6	2186.1	1772.5
57.5°	1839.0	1830.5	1766.0	1808.9	1983.1	2063.6	2162.7	2258.1	2307.8	2256.4	1817.8
60°	1897.0	1899.7	1865.4	1956.3	2196.3	2285.5	2371.9	2395.6	2404.8	2327.7	1865.4
62.5°	1940.9	1952.5	1955.6	2115.4	2415.1	2491.2	2528.6	2511.8	2509.8	2423.4	1861.7
65°	1991.3	2021.8	2072.6	2290.0	2614.0	2664.1	2690.8	2715.2	2663.7	2451.8	1678.5
67.5°	2078.4	2126.4	2240.6	2503.9	2843.8	2917.8	2993.6	2967.9	2686.7	2162.7	1278.7
70°	2195.7	2254.3	2455.9	2783.4	3155.5	3279.6	3343.0	2947.7	2281.0	1494.4	674.5
72°	2121.6	2174.7	2522.5	2926.1	3376.3	3490.1	3331.4	2571.1	1653.5	774.6	226.0
72.5°	2049.6	2104.4	2501.2	2924.3	3398.2	3485.3	3255.6	2422.7	1463.2	602.8	155.7
75°	1422.1	1491.3	2144.2	2628.8	3068.7	2973.0	2490.9	1467.0	530.1	103.6	51.4
77.5°	735.2	788.7	1300.7	1857.5	2138.7	1958.7	1472.1	636.4	146.8	54.9	33.9
80°	455.7	482.1	608.3	915.2	1111.0	971.8	649.5	257.2	94.0	32.6	27.1
82.5°	235.9	256.2	383.0	369.3	410.5	341.2	239.7	215.3	58.0	20.2	27.8
85°	77.5	82.3	235.2	245.5	175.6	118.0	106.3	205.4	16.8	13.0	23.7
87.5°	10.3	12.0	82.6	140.6	86.4	53.5	63.8	72.4	5.8	7.2	6.5
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°	698.2	698.2	698.2	698.2	698.2	698.2	698.2	698.2	698.2	698.2	698.2
2.5°	684.4	680.0	665.9	651.9	635.8	621.0	609.4	601.8	605.2	593.9	595.6
5°	664.9	653.6	622.7	589.5	553.5	519.9	493.1	473.2	469.4	452.3	453.0
7.5°	646.0	627.5	577.5	522.6	462.9	414.6	370.7	332.3	318.6	304.5	296.3
10°	635.8	610.4	539.4	459.5	375.5	304.5	242.8	194.4	174.2	159.5	152.3
12.5°	638.8	605.2	510.9	402.2	291.8	201.6	137.2	101.8	89.5	82.6	80.2
15°	649.1	606.3	485.2	346.3	212.3	122.1	80.6	68.9	67.9	67.6	67.2
17.5°	658.7	607.3	458.1	288.0	142.0	77.8	64.8	63.8	63.8	63.8	63.8
20°	668.7	607.6	428.3	227.0	93.3	63.8	61.0	60.4	61.0	61.0	61.0
22.5°	680.3	610.0	399.5	167.7	68.9	60.0	58.3	58.0	58.3	58.3	58.0
25°	694.7	615.2	368.3	120.0	62.4	57.6	55.9	55.6	55.9	55.6	55.6
27.5°	713.9	622.0	331.9	86.1	59.7	55.2	53.5	53.5	53.5	53.2	53.2
30°	738.6	630.3	283.2	67.9	56.9	52.8	51.4	51.4	51.1	50.8	50.8
32.5°	773.9	643.6	230.1	61.4	53.8	49.7	48.4	48.7	48.4	48.0	47.7
35°	824.0	664.6	177.6	58.0	50.8	46.6	45.3	45.3	45.3	44.6	44.6
37.5°	895.0	696.5	133.0	54.5	47.7	43.5	41.8	41.8	41.5	40.8	41.1
40°	982.8	736.6	96.4	51.4	44.6	40.1	38.7	38.1	37.4	36.7	36.7
42.5°	1088.4	775.7	72.4	48.4	41.5	37.4	35.7	35.0	33.6	32.9	32.6
45°	1206.7	817.2	60.0	44.6	38.1	34.3	32.9	31.5	29.8	28.8	28.5
47.5°	1306.5	842.5	53.5	40.8	34.6	31.2	29.8	27.8	25.7	25.0	25.0
50°	1366.5	831.9	48.0	37.0	31.2	28.1	26.4	23.7	22.3	21.6	21.3
52.5°	1400.1	800.4	43.5	33.9	28.1	24.7	22.3	19.9	19.2	18.5	18.5
55°	1423.1	754.7	38.7	30.9	25.4	21.6	18.9	17.1	16.5	16.1	15.8
57.5°	1445.0	699.2	34.3	28.1	22.6	19.2	16.1	15.4	14.1	13.7	13.7
60°	1451.5	622.7	30.2	25.0	20.2	16.8	14.1	13.0	11.7	11.3	11.3
62.5°	1368.6	495.5	26.7	21.3	17.8	14.4	12.3	11.0	9.6	9.6	9.6
65°	1143.6	336.4	23.0	18.5	15.8	12.3	10.6	8.9	8.2	8.2	8.2
67.5°	796.6	187.6	19.5	15.8	13.4	10.3	8.9	7.5	7.2	7.5	7.5
70°	359.0	74.4	16.5	13.0	11.0	8.6	7.5	6.5	7.2	7.2	7.2
72°	107.7	39.8	13.7	10.6	8.9	7.5	6.5	6.2	6.9	7.2	7.2
72.5°	79.9	35.7	13.0	10.3	8.9	7.2	6.2	6.2	6.9	7.2	7.2
75°	41.1	24.3	9.9	7.5	6.5	5.8	5.1	5.8	6.9	6.9	6.9
77.5°	32.2	19.9	8.2	5.8	5.5	5.1	4.8	5.5	6.2	6.2	6.2
80°	30.2	13.0	6.5	5.5	4.8	4.5	4.5	4.8	5.5	5.8	5.8
82.5°	30.5	10.6	5.8	5.1	4.5	4.1	4.1	4.5	5.1	5.5	5.5
85°	19.5	7.2	5.1	4.5	4.1	3.8	3.8	4.1	4.8	5.1	5.1
87.5°	6.5	5.5	4.5	4.1	3.4	3.4	3.4	3.4	4.1	4.5	4.8
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)