

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: McGRAW-EDISON

Report Number: P300903

Luminaire Tested: **GLNA-AF-01-LED-E1-SL4-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300903  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-01-LED-E1-SL4-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

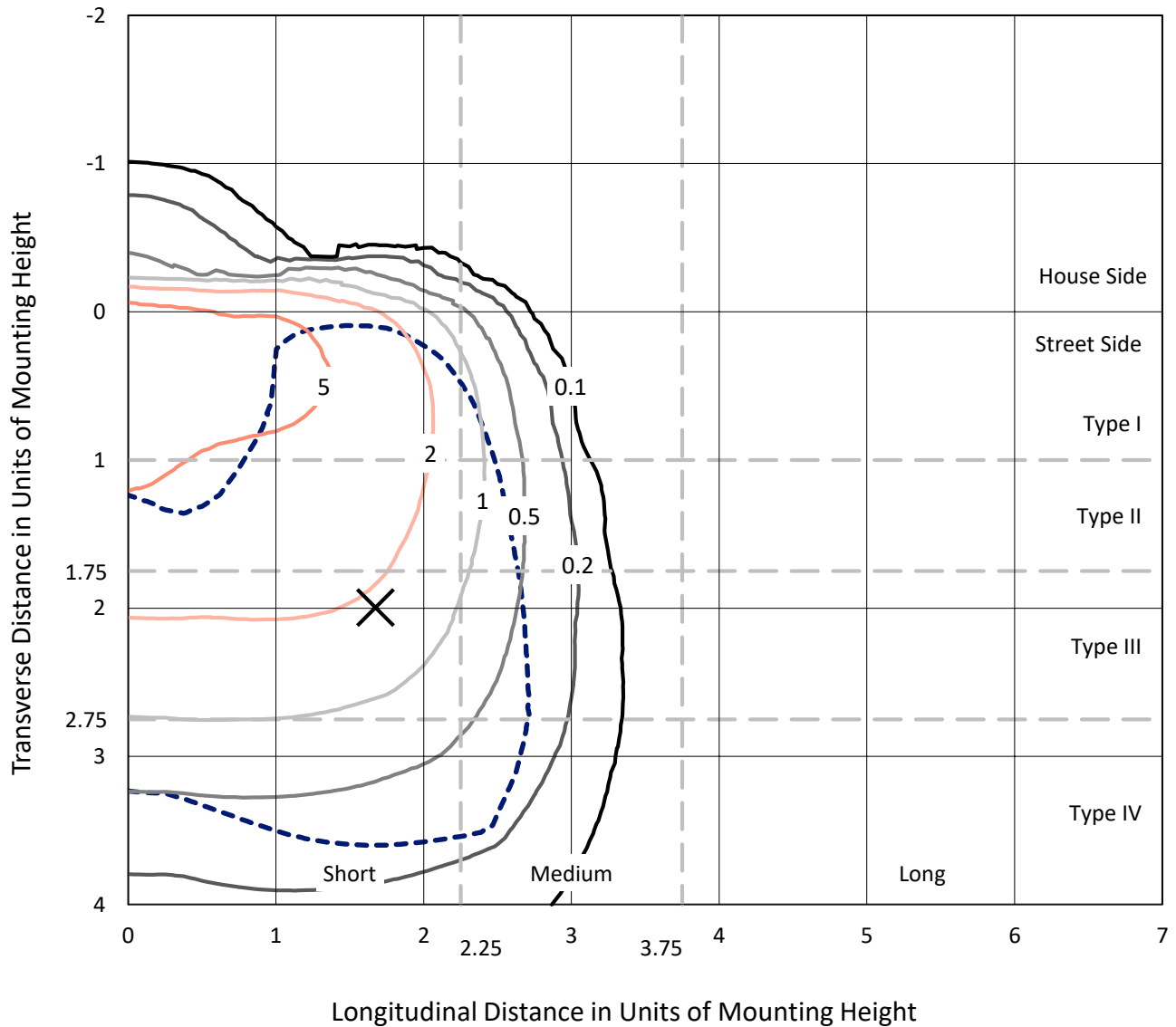
Lumens per Lamp: N/A  
Luminaire Lumens: 4767.6 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (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: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

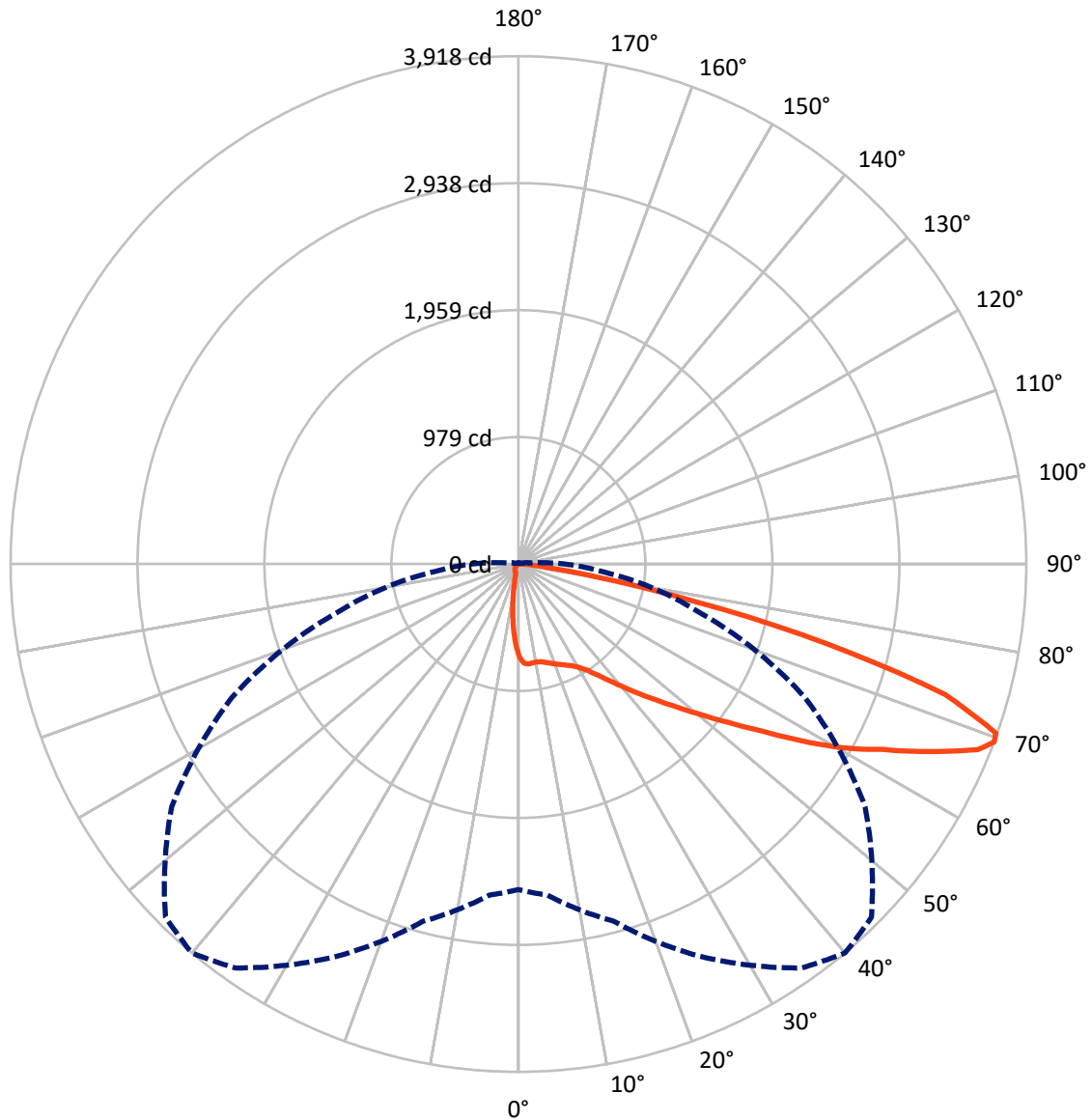
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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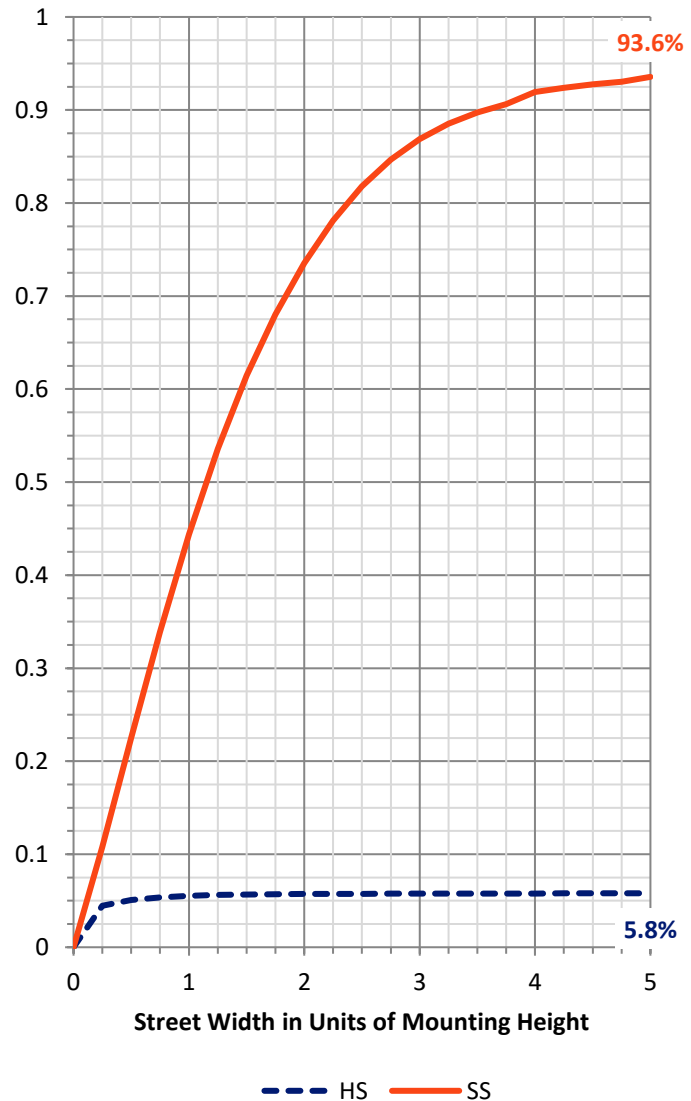
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	278.9	0.0	278.9
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	4488.7	0.0	4488.7
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	4767.6	0.0	4767.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.8	1.2
10°-20°	142.0	3.0
20°-30°	239.2	5.0
30°-40°	391.6	8.2
40°-50°	678.1	14.2
50°-60°	1068.0	22.4
60°-70°	1394.8	29.3
70°-80°	718.4	15.1
80°-90°	77.7	1.6
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°	4767.6	100.0
0°-180°	4767.6	100.0



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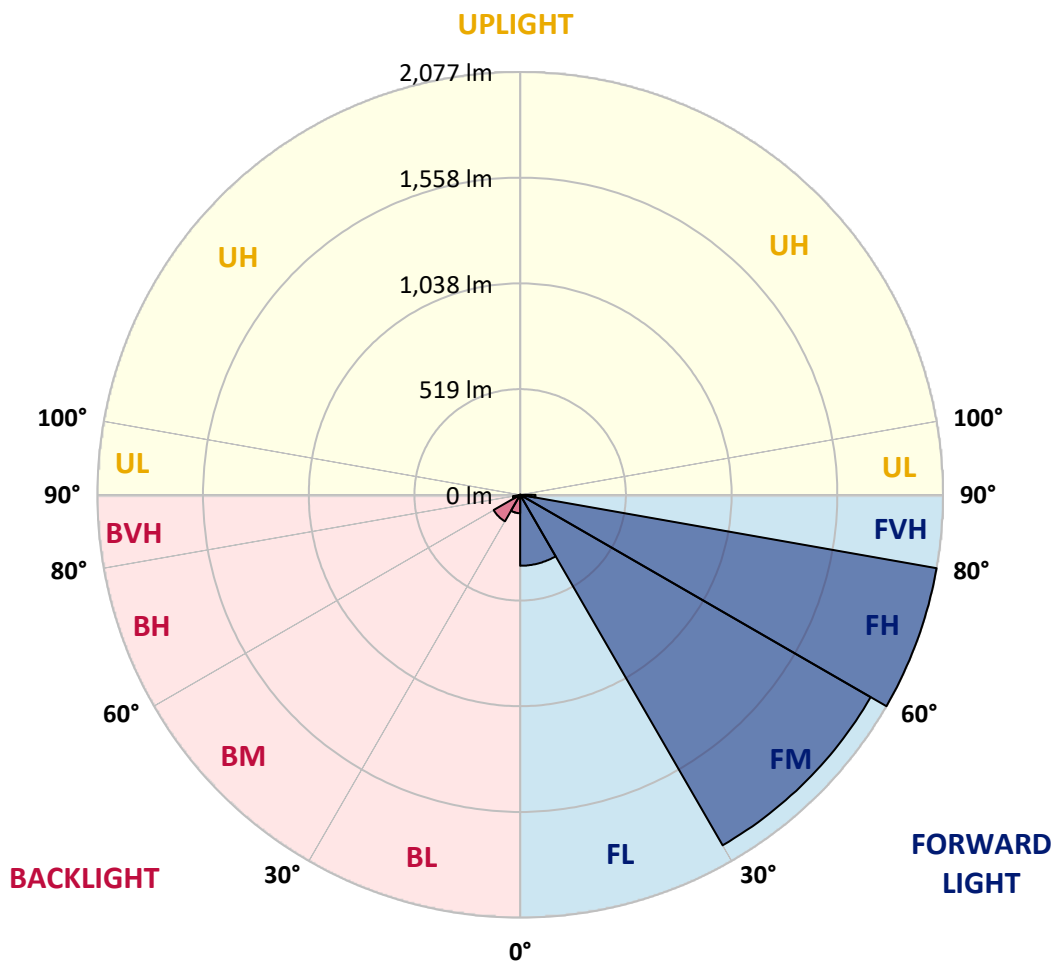
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	348.6	7.3			
FM	(30°-60°)	1987.8	41.7			
FH	(60°-80°)	2077.0	43.6			G2/5000
FVH	(80°-90°)	75.3	1.6			G1/100
BL	(0°-30°)	90.4	1.9	B0/110		
BM	(30°-60°)	149.9	3.1	B0/220		
BH	(60°-80°)	36.2	0.8	B0/110		G0/110
BVH	(80°-90°)	2.4	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°	40°	45°	55°	65°	75°	85°
0°	712.3	712.3	712.3	712.3	712.3	712.3	712.3	712.3	712.3	712.3	712.3
2.5°	782.1	777.9	775.3	771.9	767.6	764.0	762.5	752.0	742.1	728.5	712.9
5°	796.6	795.2	790.6	786.1	781.0	775.3	772.2	759.7	745.5	725.6	698.4
7.5°	798.0	796.3	790.6	784.4	777.3	770.5	765.1	752.6	739.5	719.4	686.2
10°	795.7	793.8	789.5	782.7	773.9	767.4	762.0	750.0	739.0	720.8	683.9
12.5°	793.2	791.2	789.2	785.8	778.1	773.6	769.1	757.7	747.8	732.5	692.2
15°	795.7	794.6	796.9	795.5	791.2	787.2	782.7	772.5	763.4	750.6	707.2
17.5°	806.5	806.5	813.6	814.5	810.5	804.8	798.3	788.1	780.4	769.6	725.1
20°	831.8	830.9	840.0	841.7	832.1	823.3	813.6	801.1	795.2	788.4	742.7
22.5°	875.2	871.2	876.6	874.9	855.9	842.3	830.4	815.0	811.9	808.8	762.3
25°	931.7	929.4	933.1	916.3	882.9	864.4	850.2	832.9	832.9	836.0	784.4
27.5°	1013.7	1005.2	992.7	963.2	912.9	889.4	874.1	855.6	860.4	872.1	813.6
30°	1097.7	1088.3	1059.7	1014.3	949.6	924.9	907.0	887.7	899.0	920.3	852.8
32.5°	1180.6	1170.1	1129.5	1072.1	1002.1	977.4	960.1	938.8	957.8	993.5	910.1
35°	1260.9	1251.5	1204.7	1137.1	1071.9	1051.4	1035.5	1017.1	1041.5	1091.4	991.0
37.5°	1351.1	1340.9	1283.9	1210.6	1156.7	1142.0	1130.3	1111.9	1154.4	1227.7	1103.6
40°	1462.1	1444.8	1367.9	1294.9	1254.9	1247.8	1239.9	1237.3	1303.4	1404.7	1253.8
42.5°	1589.2	1560.8	1455.8	1383.7	1362.7	1367.9	1365.9	1377.2	1489.9	1625.0	1436.5
45°	1716.3	1679.7	1553.7	1478.5	1481.4	1499.2	1510.3	1555.7	1723.4	1877.5	1633.2
47.5°	1824.2	1788.1	1647.7	1581.0	1615.0	1650.2	1680.3	1766.3	1963.5	2126.1	1786.2
50°	1916.4	1882.4	1747.3	1693.6	1770.3	1827.0	1875.8	2003.3	2221.8	2315.4	1893.4
52.5°	1991.9	1969.2	1850.6	1822.8	1947.6	2030.8	2102.3	2255.0	2450.5	2469.2	1976.9
55°	2065.4	2049.2	1961.5	1976.3	2155.9	2269.2	2359.7	2522.0	2647.4	2597.5	2056.9
57.5°	2150.0	2135.2	2088.1	2171.0	2429.8	2572.2	2671.0	2758.7	2820.8	2728.6	2132.4
60°	2236.2	2227.7	2228.9	2387.2	2744.2	2881.0	2935.5	2958.2	2991.1	2852.1	2136.6
62.5°	2318.5	2334.7	2389.8	2627.9	3045.3	3150.3	3177.8	3200.3	3161.7	2871.6	1974.0
65°	2457.9	2484.3	2615.7	2950.0	3376.5	3488.9	3517.3	3440.3	3188.6	2618.5	1605.7
67.5°	2526.0	2574.2	2808.6	3250.2	3697.7	3822.6	3812.1	3456.0	2861.4	1996.7	1030.4
69°	2511.8	2563.2	2853.2	3342.2	3804.4	3917.7	3851.0	3265.0	2437.7	1446.5	632.6
70°	2455.6	2507.5	2830.2	3338.8	3818.1	3907.7	3778.9	3029.1	2061.1	1057.7	395.6
72.5°	2050.6	2095.5	2512.6	3017.8	3517.3	3444.3	3161.4	2098.6	1004.3	288.0	89.1
75°	1262.3	1287.3	1802.9	2273.4	2656.5	2469.2	2106.3	1044.1	299.4	81.4	49.4
77.5°	666.9	678.3	987.0	1340.0	1684.0	1393.4	1079.5	407.2	137.9	51.1	35.8
80°	394.2	402.7	531.5	612.7	728.8	608.7	431.6	250.0	98.8	32.1	31.8
82.5°	225.6	231.0	385.4	340.5	287.2	245.2	214.8	237.0	59.3	21.6	32.9
85°	82.9	84.0	216.8	259.1	170.8	101.6	106.7	196.4	15.9	13.6	25.8
87.5°	38.6	37.7	111.5	158.6	99.9	64.4	83.1	43.1	6.2	8.8	7.1
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°	712.3	712.3	712.3	712.3	712.3	712.3	712.3	712.3	712.3	712.3	712.3
2.5°	703.8	693.3	674.3	654.7	634.8	619.5	604.5	592.5	588.6	581.2	581.8
5°	682.2	662.9	623.2	582.9	540.9	506.3	473.6	447.2	434.5	421.4	421.4
7.5°	663.5	635.4	573.2	507.7	439.9	382.8	331.5	292.9	271.6	254.6	254.3
10°	656.4	618.4	531.5	437.6	343.1	265.3	204.3	165.2	145.0	132.0	131.4
12.5°	659.5	612.4	499.5	372.9	254.3	170.6	118.3	93.1	84.6	80.6	80.6
15°	668.6	610.7	467.4	309.6	179.6	106.7	78.6	71.8	71.2	71.2	71.2
17.5°	679.7	611.3	434.5	248.0	122.3	76.3	67.8	67.0	67.5	67.5	67.5
20°	691.0	611.6	399.0	191.0	86.3	66.4	63.9	63.6	64.1	64.1	64.4
22.5°	704.9	613.0	363.5	142.7	71.2	62.7	60.7	60.7	61.0	61.0	60.7
25°	720.8	615.8	326.6	105.9	65.0	60.2	58.5	58.2	58.5	58.2	57.9
27.5°	740.7	619.8	285.5	82.9	62.1	57.6	56.2	56.2	55.9	55.6	55.3
30°	765.7	624.3	239.2	70.4	59.3	55.3	53.9	53.6	53.4	52.8	52.8
32.5°	803.7	634.3	193.5	63.9	56.2	52.2	51.1	51.1	50.5	49.9	49.7
35°	862.1	653.8	152.7	59.9	52.8	48.8	47.4	47.4	46.8	46.5	46.3
37.5°	943.0	683.6	118.6	56.2	49.4	45.1	43.7	43.4	42.9	42.3	42.0
40°	1050.6	720.5	93.4	52.8	46.0	41.4	40.3	39.7	38.6	37.7	37.7
42.5°	1185.7	762.5	75.8	49.1	42.0	38.0	37.2	36.3	34.3	33.5	33.2
45°	1327.0	800.3	64.1	44.8	38.0	34.6	34.1	32.6	30.1	29.2	29.2
47.5°	1428.9	809.1	56.5	40.9	34.3	30.9	30.6	28.1	25.8	25.3	25.0
50°	1492.4	791.8	50.2	36.9	30.9	27.5	26.7	23.6	22.1	21.6	21.3
52.5°	1535.3	760.8	45.1	33.5	27.8	24.4	22.4	20.1	19.0	18.4	18.4
55°	1569.6	717.1	40.0	30.4	25.3	21.9	19.0	17.3	16.2	15.6	15.6
57.5°	1579.3	657.8	34.9	27.8	22.7	19.3	16.2	15.0	13.6	13.3	13.3
60°	1509.2	550.8	30.9	24.7	20.4	16.7	14.2	12.8	11.4	11.1	10.8
62.5°	1324.4	426.2	27.2	21.9	17.9	14.5	12.2	10.5	9.4	9.4	9.4
65°	1010.3	285.8	23.8	19.0	15.6	12.2	10.5	8.5	7.9	7.9	8.2
67.5°	604.7	155.5	20.4	16.2	13.3	10.2	8.8	7.4	7.1	7.4	7.4
69°	354.4	91.4	18.4	14.5	11.6	9.1	7.7	6.5	7.1	7.4	7.4
70°	218.8	61.6	17.0	13.1	10.5	8.2	7.1	6.2	6.8	7.1	7.1
72.5°	61.0	31.8	13.6	10.2	8.5	6.8	5.7	5.7	6.5	6.8	6.8
75°	39.7	23.6	10.5	7.7	6.5	5.4	4.8	5.4	6.2	6.5	6.5
77.5°	32.9	19.3	8.5	6.2	5.4	5.1	4.5	4.8	5.7	6.0	6.0
80°	30.1	13.6	6.8	5.7	4.8	4.5	4.3	4.0	5.1	5.4	5.4
82.5°	28.7	10.8	6.0	5.1	4.5	4.0	3.7	4.0	4.5	4.8	5.1
85°	17.9	7.1	5.4	4.8	4.0	3.7	3.7	3.7	4.3	4.5	4.5
87.5°	6.5	5.7	4.8	4.0	3.4	3.4	3.4	3.4	3.7	4.3	4.3
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)