

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: P300841

Luminaire Tested: **GLNA-AF-01-LED-E1-SL4-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300841  
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-SL4-7030  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

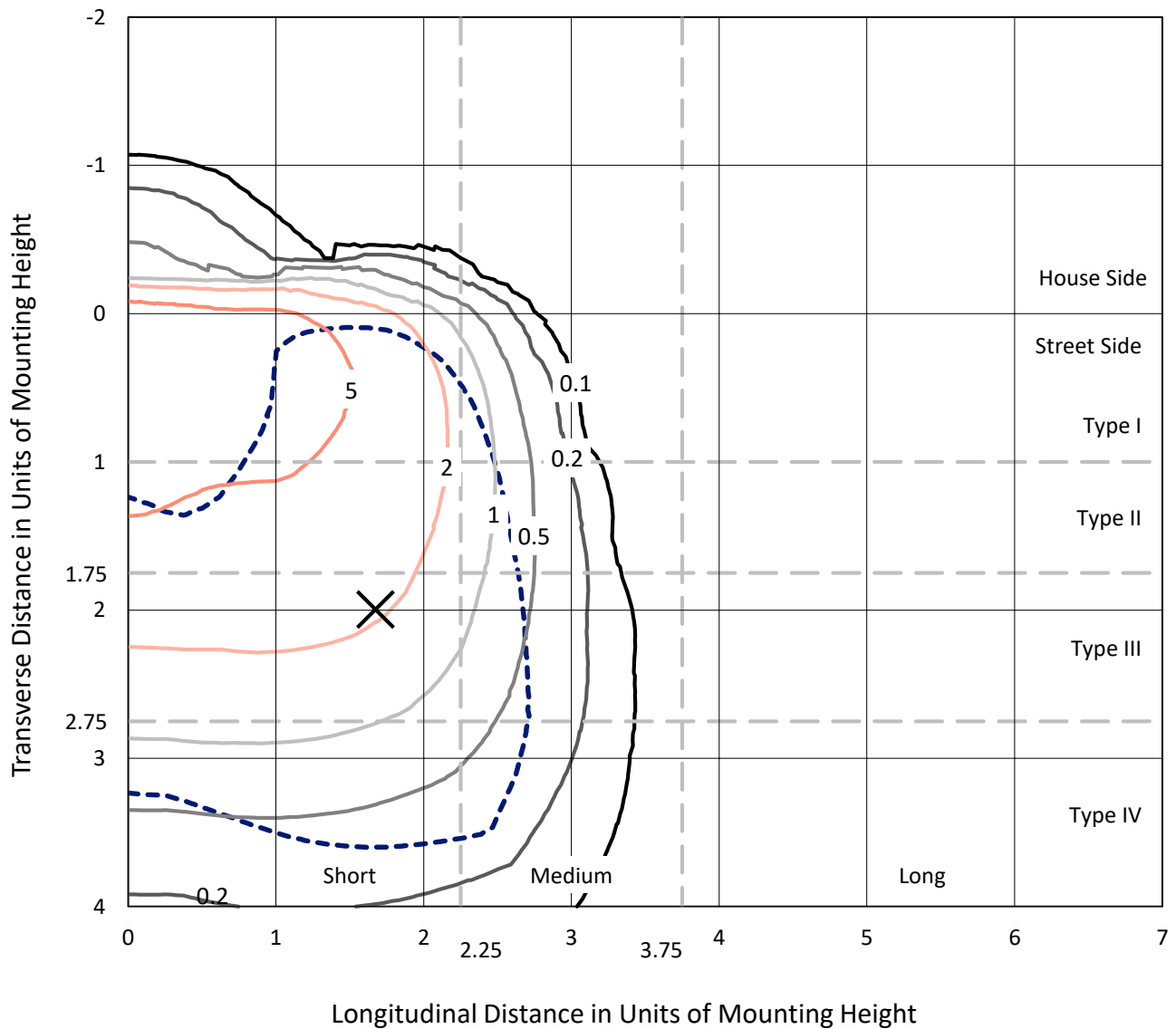
Lumens per Lamp: N/A  
Luminaire Lumens: 5708.3 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (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

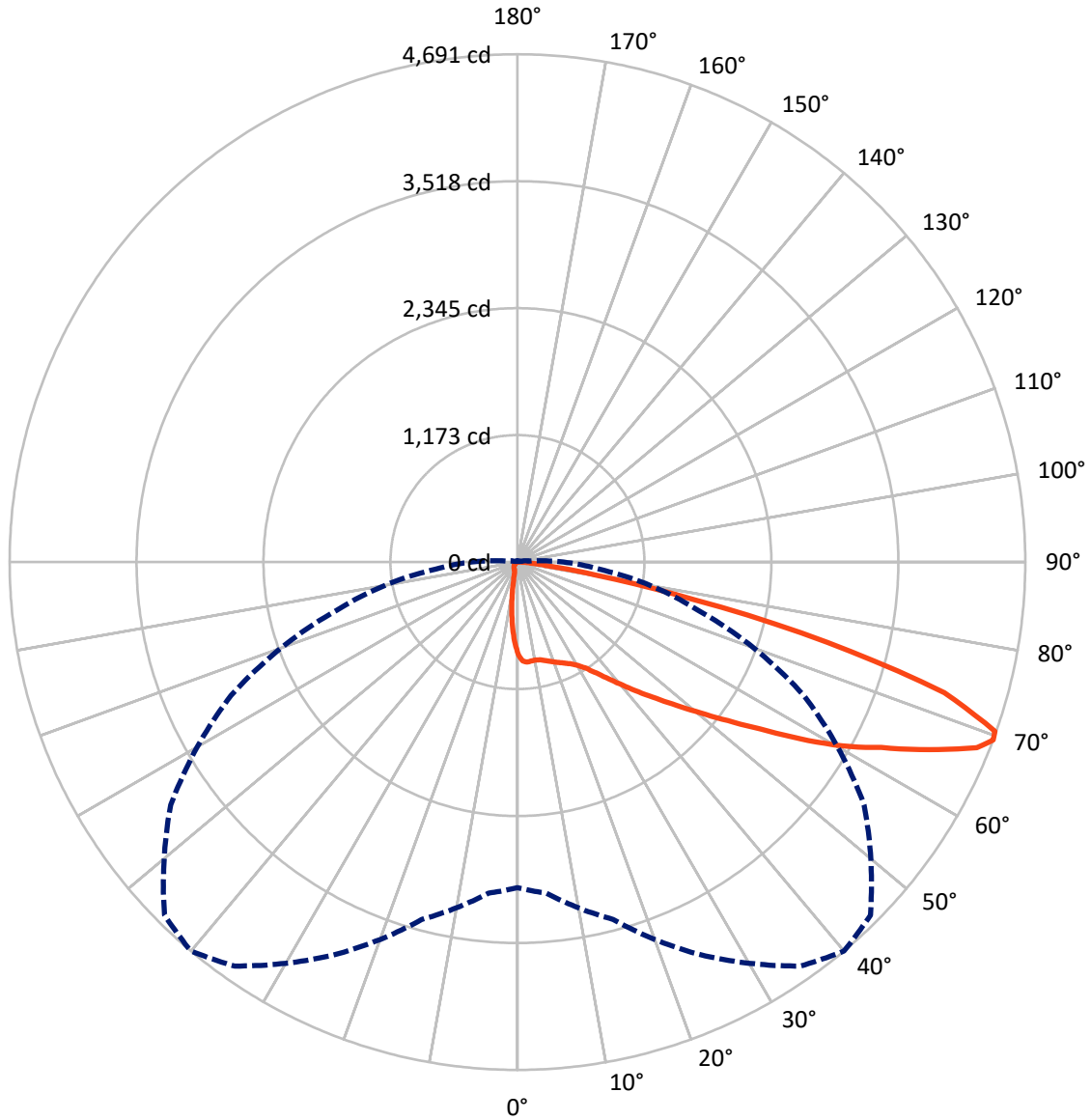
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 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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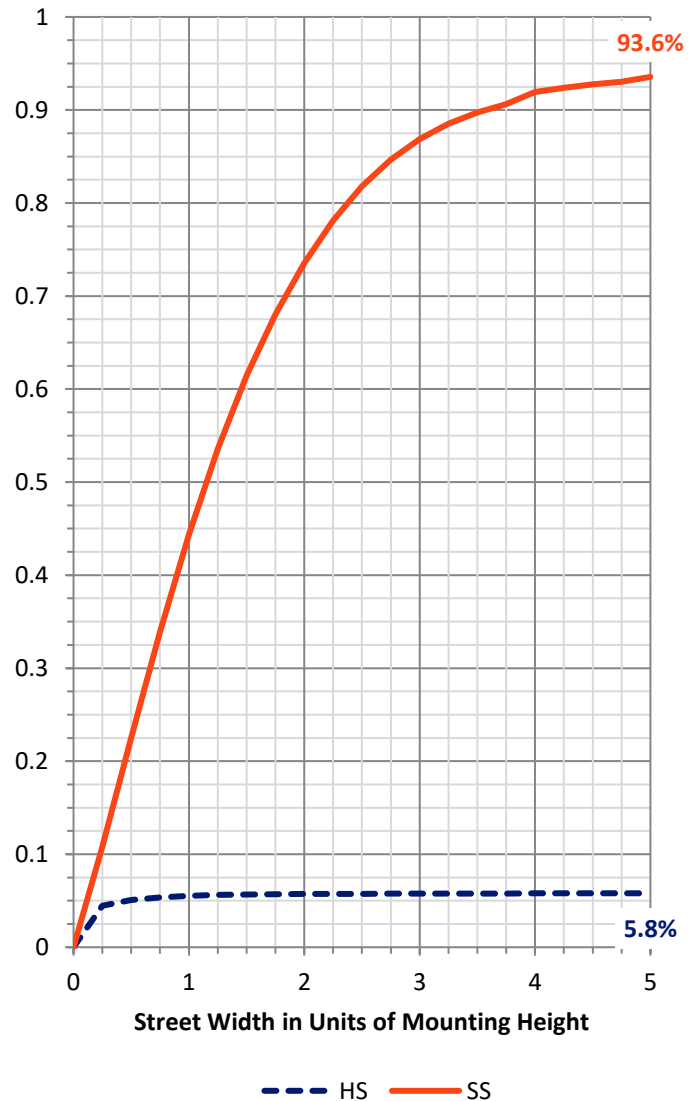
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	334.0	0.0	334.0
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	5374.3	0.0	5374.3
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	5708.3	0.0	5708.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.1	1.2
10°-20°	170.0	3.0
20°-30°	286.4	5.0
30°-40°	468.9	8.2
40°-50°	811.9	14.2
50°-60°	1278.8	22.4
60°-70°	1670.0	29.3
70°-80°	860.1	15.1
80°-90°	93.0	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°	5708.3	100.0
0°-180°	5708.3	100.0



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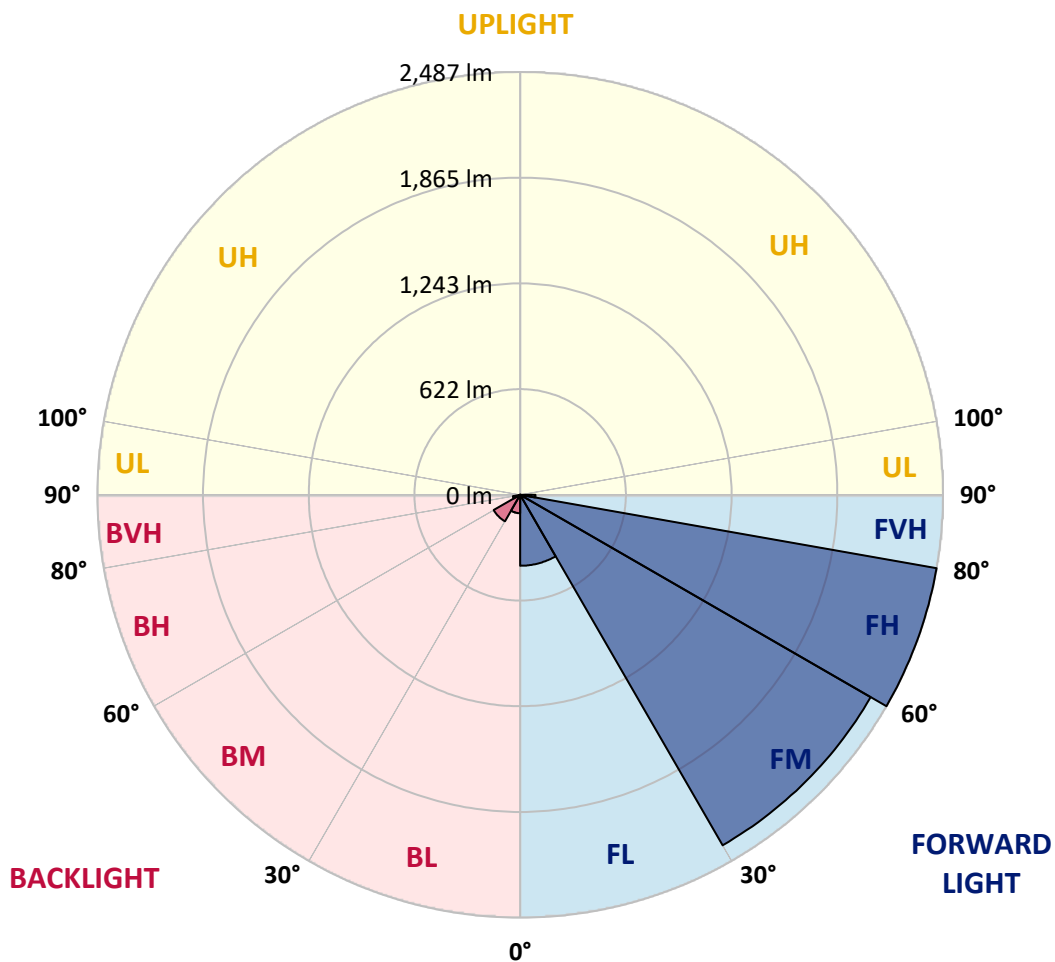
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	417.4	7.3			
FM	(30°-60°)	2380.0	41.7			
FH	(60°-80°)	2486.8	43.6			G2/5000
FVH	(80°-90°)	90.1	1.6			G1/100
BL	(0°-30°)	108.2	1.9	B0/110		
BM	(30°-60°)	179.5	3.1	B0/220		
BH	(60°-80°)	43.4	0.8	B0/110		G0/110
BVH	(80°-90°)	2.9	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°	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8
2.5°	936.4	931.3	928.3	924.2	919.1	914.7	913.0	900.4	888.5	872.2	853.5
5°	953.8	952.1	946.6	941.2	935.1	928.3	924.5	909.6	892.6	868.8	836.2
7.5°	955.5	953.4	946.6	939.1	930.7	922.5	916.0	901.1	885.5	861.3	821.6
10°	952.7	950.4	945.3	937.1	926.6	918.8	912.3	898.0	884.8	863.0	818.9
12.5°	949.7	947.3	944.9	940.8	931.7	926.2	920.8	907.2	895.3	877.0	828.7
15°	952.7	951.4	954.1	952.4	947.3	942.5	937.1	924.9	914.0	898.7	846.7
17.5°	965.7	965.7	974.1	975.2	970.4	963.6	955.8	943.6	934.4	921.5	868.1
20°	995.9	994.9	1005.7	1007.8	996.2	985.7	974.1	959.2	952.1	943.9	889.2
22.5°	1047.9	1043.1	1049.6	1047.5	1024.8	1008.5	994.2	975.8	972.1	968.4	912.6
25°	1115.5	1112.8	1117.2	1097.1	1057.1	1035.0	1018.0	997.3	997.3	1001.0	939.1
27.5°	1213.7	1203.5	1188.5	1153.2	1093.1	1064.9	1046.5	1024.4	1030.2	1044.1	974.1
30°	1314.3	1303.1	1268.7	1214.4	1136.9	1107.3	1085.9	1062.8	1076.4	1101.9	1021.0
32.5°	1413.5	1400.9	1352.3	1283.7	1199.8	1170.2	1149.5	1124.0	1146.8	1189.6	1089.7
35°	1509.6	1498.4	1442.4	1361.5	1283.3	1258.9	1239.9	1217.8	1247.0	1306.8	1186.5
37.5°	1617.7	1605.5	1537.2	1449.5	1384.9	1367.3	1353.3	1331.3	1382.2	1469.9	1321.4
40°	1750.5	1729.8	1637.7	1550.4	1502.5	1494.0	1484.5	1481.4	1560.6	1681.9	1501.1
42.5°	1902.8	1868.8	1743.1	1656.8	1631.6	1637.7	1635.4	1648.9	1783.8	1945.6	1720.0
45°	2055.0	2011.2	1860.3	1770.2	1773.6	1795.1	1808.3	1862.7	2063.5	2248.0	1955.4
47.5°	2184.1	2140.9	1972.8	1892.9	1933.7	1975.8	2011.8	2114.8	2350.9	2545.6	2138.6
50°	2294.5	2253.8	2092.0	2027.8	2119.5	2187.5	2245.9	2398.5	2660.1	2772.3	2267.0
52.5°	2384.9	2357.7	2215.7	2182.4	2331.9	2431.5	2517.1	2699.9	2934.0	2956.4	2366.9
55°	2472.9	2453.5	2348.6	2366.2	2581.3	2716.9	2825.3	3019.6	3169.8	3110.0	2462.7
57.5°	2574.2	2556.5	2500.1	2599.3	2909.2	3079.8	3198.0	3303.0	3377.4	3267.0	2553.1
60°	2677.5	2667.3	2668.6	2858.2	3285.7	3449.4	3514.7	3541.9	3581.3	3414.8	2558.2
62.5°	2776.0	2795.4	2861.3	3146.4	3646.2	3771.9	3804.8	3831.7	3785.5	3438.2	2363.5
65°	2942.8	2974.4	3131.7	3532.0	4042.7	4177.2	4211.2	4119.1	3817.8	3135.1	1922.5
67.5°	3024.4	3082.1	3362.8	3891.5	4427.3	4576.8	4564.3	4137.8	3426.0	2390.7	1233.7
69°	3007.4	3068.9	3416.1	4001.6	4555.1	4690.6	4610.8	3909.2	2918.7	1731.9	757.4
70°	2940.1	3002.3	3388.6	3997.5	4571.4	4678.8	4524.5	3626.8	2467.8	1266.4	473.7
72.5°	2455.2	2508.9	3008.4	3613.2	4211.2	4123.9	3785.1	2512.7	1202.5	344.9	106.7
75°	1511.3	1541.2	2158.6	2722.0	3180.7	2956.4	2521.8	1250.0	358.5	97.5	59.1
77.5°	798.5	812.1	1181.8	1604.4	2016.2	1668.3	1292.5	487.6	165.1	61.2	42.8
80°	472.0	482.1	636.4	733.6	872.6	728.8	516.8	299.3	118.2	38.4	38.1
82.5°	270.1	276.6	461.4	407.7	343.9	293.6	257.2	283.7	71.0	25.8	39.4
85°	99.2	100.6	259.6	310.2	204.5	121.6	127.8	235.1	19.0	16.3	30.9
87.5°	46.2	45.2	133.5	189.9	119.6	77.1	99.6	51.6	7.5	10.5	8.5
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°	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8	852.8
2.5°	842.7	830.1	807.3	783.9	760.1	741.7	723.7	709.5	704.7	695.9	696.5
5°	816.8	793.7	746.2	697.9	647.6	606.2	567.1	535.5	520.2	504.6	504.6
7.5°	794.4	760.8	686.4	607.9	526.7	458.4	396.9	350.7	325.2	304.8	304.4
10°	785.9	740.4	636.4	523.9	410.8	317.7	244.6	197.8	173.6	158.0	157.3
12.5°	789.6	733.2	598.0	446.5	304.4	204.2	141.7	111.4	101.3	96.5	96.5
15°	800.5	731.2	559.6	370.7	215.1	127.8	94.1	86.0	85.3	85.3	85.3
17.5°	813.8	731.9	520.2	297.0	146.4	91.4	81.2	80.2	80.9	80.9	80.9
20°	827.4	732.2	477.7	228.7	103.3	79.5	76.5	76.1	76.8	76.8	77.1
22.5°	844.0	733.9	435.3	170.9	85.3	75.1	72.7	72.7	73.1	73.1	72.7
25°	863.0	737.3	391.1	126.7	77.8	72.0	70.0	69.7	70.0	69.7	69.3
27.5°	886.8	742.1	341.8	99.2	74.4	69.0	67.3	67.3	66.9	66.6	66.3
30°	916.7	747.5	286.4	84.3	71.0	66.3	64.6	64.2	63.9	63.2	63.2
32.5°	962.3	759.4	231.7	76.5	67.3	62.5	61.2	61.2	60.5	59.8	59.5
35°	1032.2	782.9	182.8	71.7	63.2	58.4	56.7	56.7	56.1	55.7	55.4
37.5°	1129.1	818.5	142.0	67.3	59.1	54.0	52.3	52.0	51.3	50.6	50.3
40°	1257.9	862.7	111.8	63.2	55.0	49.6	48.2	47.6	46.2	45.2	45.2
42.5°	1419.6	913.0	90.7	58.8	50.3	45.5	44.5	43.5	41.1	40.1	39.8
45°	1588.8	958.2	76.8	53.7	45.5	41.5	40.8	39.1	36.0	35.0	35.0
47.5°	1710.8	968.7	67.6	48.9	41.1	37.0	36.7	33.6	30.9	30.2	29.9
50°	1786.9	948.0	60.1	44.2	37.0	33.0	31.9	28.2	26.5	25.8	25.5
52.5°	1838.2	910.9	54.0	40.1	33.3	29.2	26.8	24.1	22.8	22.1	22.1
55°	1879.3	858.6	47.9	36.4	30.2	26.2	22.8	20.7	19.4	18.7	18.7
57.5°	1890.9	787.6	41.8	33.3	27.2	23.1	19.4	18.0	16.3	16.0	16.0
60°	1806.9	659.5	37.0	29.6	24.5	20.0	17.0	15.3	13.6	13.3	12.9
62.5°	1585.7	510.3	32.6	26.2	21.4	17.3	14.6	12.6	11.2	11.2	11.2
65°	1209.6	342.2	28.5	22.8	18.7	14.6	12.6	10.2	9.5	9.5	9.9
67.5°	724.1	186.2	24.5	19.4	16.0	12.2	10.5	8.8	8.5	8.8	8.8
69°	424.4	109.4	22.1	17.3	13.9	10.9	9.2	7.8	8.5	8.8	8.8
70°	262.0	73.7	20.4	15.6	12.6	9.9	8.5	7.5	8.2	8.5	8.5
72.5°	73.1	38.1	16.3	12.2	10.2	8.2	6.8	6.8	7.8	8.2	8.2
75°	47.6	28.2	12.6	9.2	7.8	6.5	5.8	6.5	7.5	7.8	7.8
77.5°	39.4	23.1	10.2	7.5	6.5	6.1	5.4	5.8	6.8	7.1	7.1
80°	36.0	16.3	8.2	6.8	5.8	5.4	5.1	4.8	6.1	6.5	6.5
82.5°	34.3	12.9	7.1	6.1	5.4	4.8	4.4	4.8	5.4	5.8	6.1
85°	21.4	8.5	6.5	5.8	4.8	4.4	4.4	4.4	5.1	5.4	5.4
87.5°	7.8	6.8	5.8	4.8	4.1	4.1	4.1	4.1	4.4	5.1	5.1
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)