

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: P450805

Luminaire Tested: **GALN-SA1C-827-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450805  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1C-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4280 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

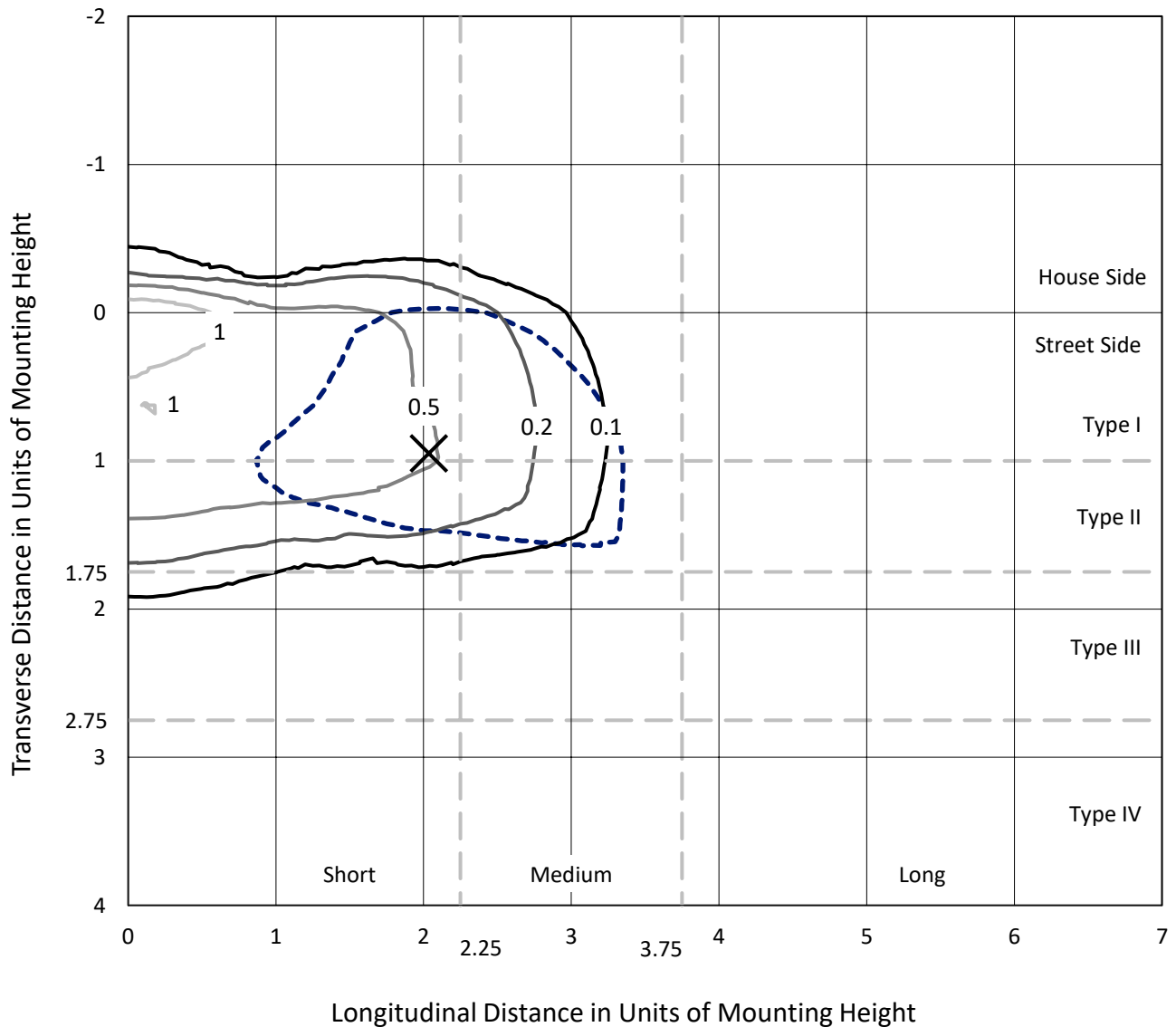
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

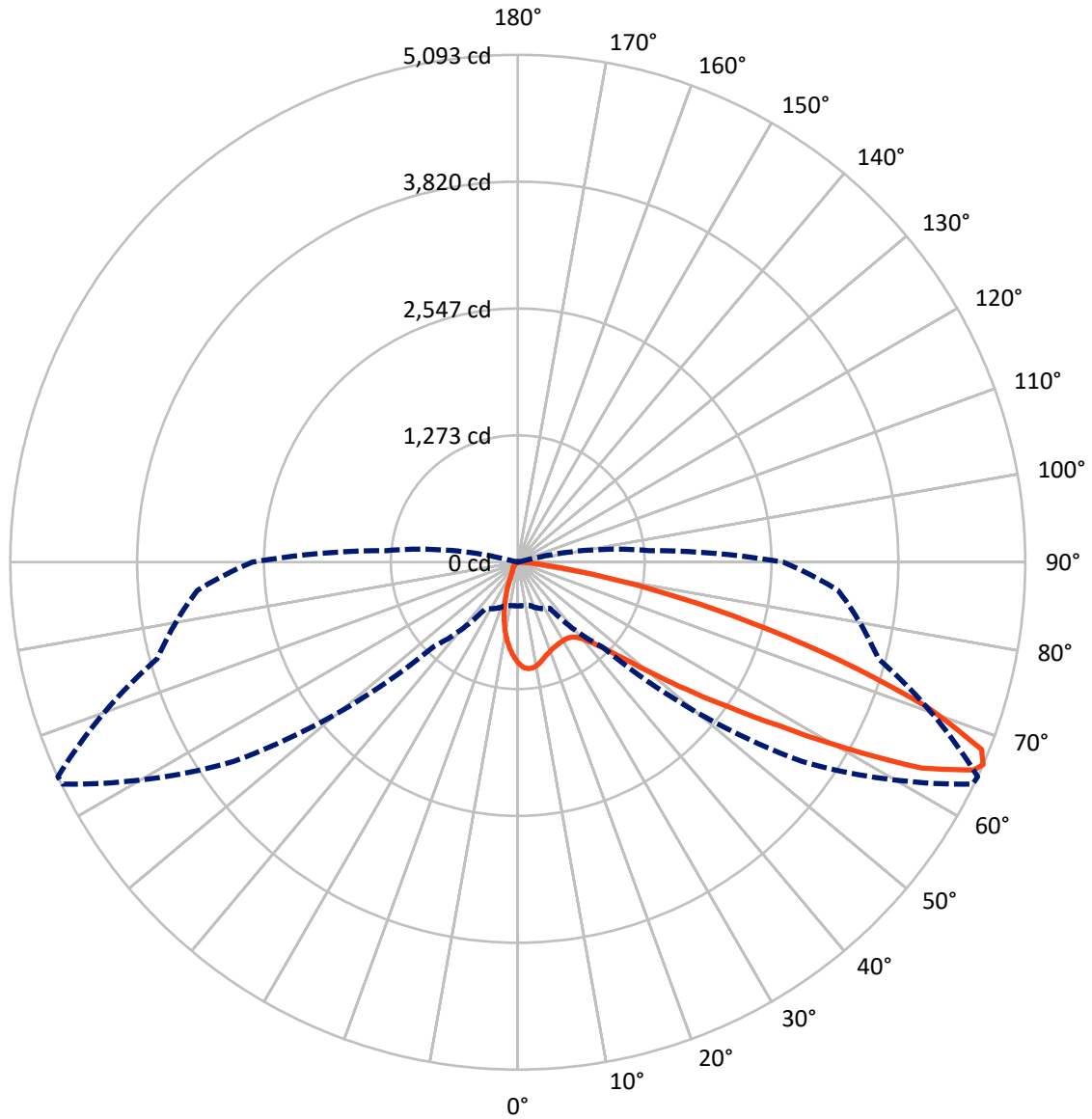
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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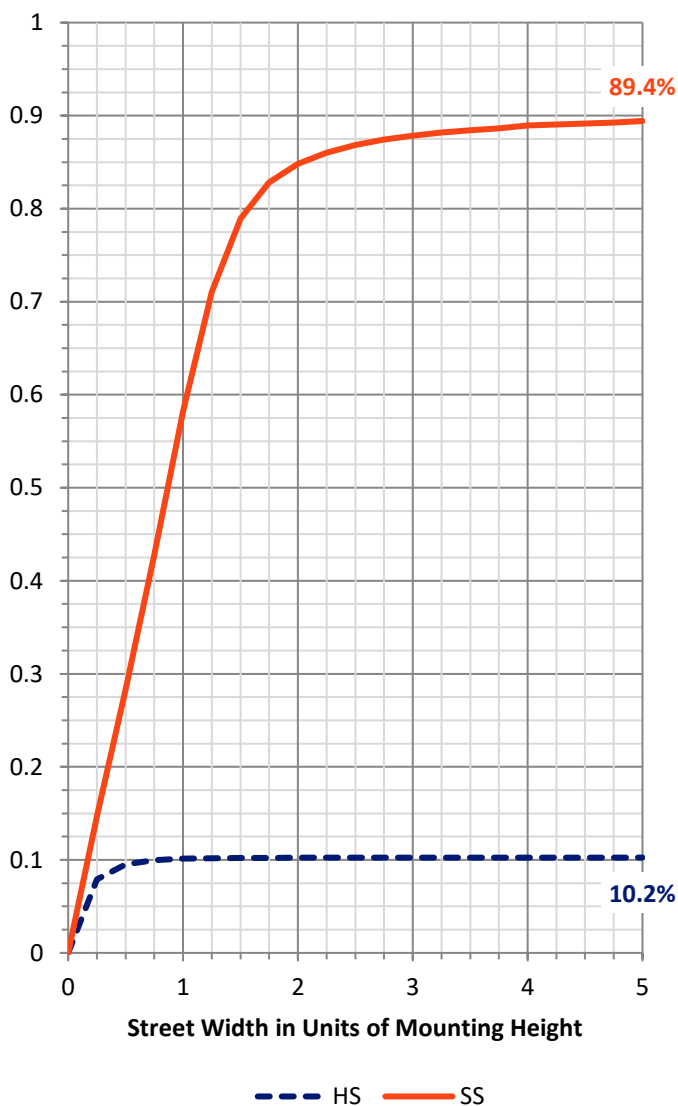
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	442.6	0.0	442.6
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	3837.4	0.0	3837.4
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	4280.0	0.0	4280.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.0	1.9
10°-20°	180.9	4.2
20°-30°	259.1	6.1
30°-40°	378.4	8.8
40°-50°	634.5	14.8
50°-60°	1058.9	24.7
60°-70°	1124.0	26.3
70°-80°	509.1	11.9
80°-90°	52.1	1.2
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°	4280.0	100.0
0°-180°	4280.0	100.0

**Coefficient of Utilization**



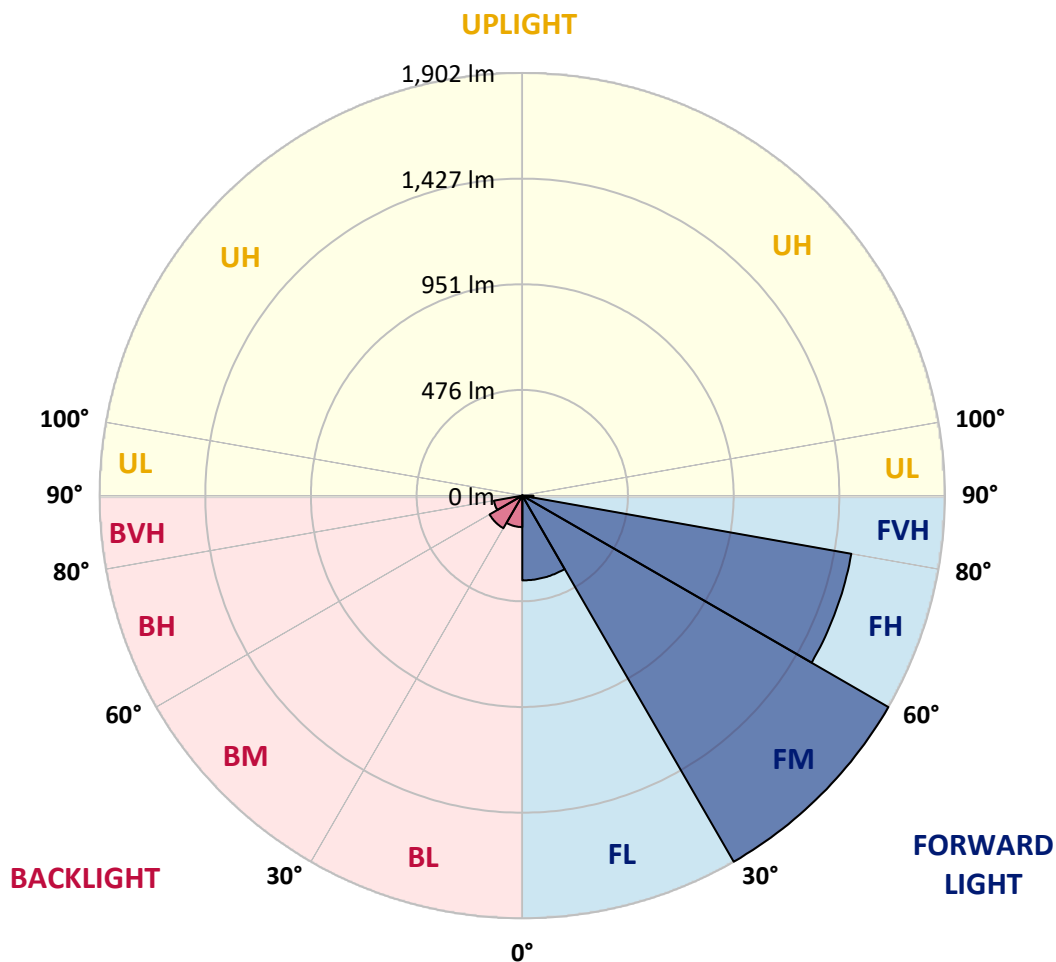
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	381.4	8.9			
FM (30°-60°)	1902.1	44.4			
FH (60°-80°)	1503.5	35.1			G1/1800
FVH (80°-90°)	50.4	1.2			G1/100
BL (0°-30°)	141.6	3.3	B1/500		
BM (30°-60°)	169.7	4.0	B0/220		
BH (60°-80°)	129.6	3.0	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9
2.5°	1069.6	1070.7	1072.2	1074.2	1075.7	1071.3	1065.2	1058.3	1056.9	1042.1	1024.2
5°	1012.3	1014.1	1026.8	1033.7	1049.3	1063.5	1072.5	1073.6	1073.1	1059.2	1030.6
7.5°	930.8	935.7	948.2	960.3	989.5	1016.4	1048.2	1070.4	1071.9	1068.1	1032.6
10°	864.6	867.8	874.2	898.2	922.4	963.5	1008.0	1049.9	1053.4	1068.4	1030.8
12.5°	812.9	817.5	825.3	843.8	873.0	911.7	962.3	1018.7	1025.9	1062.9	1025.9
15°	776.7	779.1	786.9	805.1	833.4	869.3	920.4	986.0	992.4	1055.7	1025.1
17.5°	759.7	762.3	767.8	782.2	805.7	838.9	888.9	959.7	967.8	1051.1	1028.2
20°	764.3	766.6	766.9	774.4	790.3	818.4	865.8	935.2	945.6	1048.2	1033.4
22.5°	790.6	790.9	787.4	784.0	789.5	809.7	851.6	919.6	930.2	1047.6	1039.5
25°	829.9	830.8	825.0	812.9	801.9	812.3	848.4	909.4	919.0	1046.2	1043.3
27.5°	884.3	884.0	882.3	862.0	830.8	823.9	851.0	903.9	912.0	1042.1	1044.7
30°	960.3	958.0	954.2	931.4	883.7	851.9	862.0	900.5	908.0	1036.3	1041.0
32.5°	1035.2	1043.9	1043.3	1021.6	962.0	901.9	884.9	905.1	910.6	1032.6	1035.5
35°	1122.5	1122.2	1144.5	1136.4	1066.7	965.8	923.9	920.4	924.8	1035.2	1032.9
37.5°	1203.4	1210.9	1245.6	1254.0	1190.4	1056.0	979.1	953.4	954.8	1052.8	1039.2
40°	1304.3	1318.8	1370.5	1398.5	1342.5	1189.8	1060.6	1013.8	1014.1	1096.2	1063.2
42.5°	1434.4	1457.2	1505.5	1552.3	1522.3	1348.3	1182.9	1109.5	1108.9	1172.5	1118.1
45°	1592.5	1608.4	1663.3	1737.6	1718.6	1569.4	1361.0	1257.8	1250.3	1297.7	1215.6
47.5°	1729.0	1750.6	1806.4	1891.1	1977.9	1839.4	1573.7	1461.6	1456.7	1496.8	1382.7
50°	1788.5	1807.6	1866.3	1985.1	2195.2	2193.8	1890.6	1759.0	1750.6	1772.3	1641.1
52.5°	1723.2	1741.1	1800.4	1948.4	2297.6	2625.7	2349.6	2132.2	2122.1	2094.4	1949.8
55°	1499.4	1514.2	1601.8	1771.7	2258.3	2913.6	2982.1	2593.3	2554.0	2446.2	2299.3
57.5°	1193.9	1186.4	1240.7	1438.2	2027.6	3010.1	3631.4	3167.7	3097.4	2750.3	2595.0
60°	827.3	850.5	872.4	1002.5	1524.6	2842.8	4035.2	3889.8	3797.3	3049.5	2878.3
62.5°	608.2	623.5	638.0	698.1	958.6	2269.8	4106.6	4631.6	4549.5	3367.2	3148.6
65°	481.0	482.2	488.0	547.2	631.6	1476.0	3763.5	5049.9	5028.8	3673.0	3258.2
66°	438.2	438.5	447.5	511.1	566.9	1202.0	3488.6	5081.7	5093.2	3746.4	3226.1
67.5°	383.0	381.9	394.9	459.3	516.3	866.6	2996.6	4952.7	5021.3	3802.8	3110.7
70°	296.9	295.4	311.3	385.3	475.5	578.2	1991.7	4252.6	4363.0	3687.5	2752.3
72.5°	197.7	198.9	226.1	304.1	453.8	509.1	1198.2	3235.0	3391.2	3045.1	2165.2
75°	115.3	117.4	148.3	226.1	394.0	485.4	678.2	2306.8	2406.6	2102.7	1348.8
77.5°	60.4	61.3	83.0	149.2	302.1	450.7	451.8	1473.7	1520.5	1021.9	533.9
80°	32.1	31.2	44.5	89.9	207.8	395.7	366.5	780.2	811.1	303.5	135.0
82.5°	12.1	13.3	23.7	59.0	122.9	284.2	315.7	344.9	334.2	66.8	56.7
85°	2.3	2.9	10.1	35.0	61.9	118.8	232.7	169.1	156.7	25.1	32.7
87.5°	0.3	0.6	2.9	8.4	9.0	40.2	68.8	46.8	40.5	9.3	13.6
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°	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9
2.5°	1015.5	1007.7	981.7	956.0	929.7	906.0	889.8	863.5	856.8	847.3	841.8
5°	1013.5	995.3	945.3	890.6	839.8	784.8	742.9	702.5	680.8	669.8	665.7
7.5°	1007.7	978.8	900.8	815.2	733.7	651.6	580.2	525.8	490.9	466.9	450.7
10°	996.2	956.3	849.0	731.4	608.2	499.8	409.3	340.5	287.3	270.6	271.2
12.5°	984.3	931.1	791.2	638.3	485.6	348.9	252.9	198.6	173.2	164.8	163.0
15°	973.3	907.1	734.5	548.1	361.6	226.1	163.0	144.0	137.0	135.6	135.3
17.5°	967.5	884.9	674.1	444.9	252.4	153.5	130.7	125.5	123.4	122.0	121.4
20°	962.6	865.5	616.3	348.3	172.6	125.7	117.1	112.2	108.7	107.2	106.4
22.5°	959.2	845.5	556.5	269.7	132.1	111.6	103.8	97.4	92.5	90.8	89.6
25°	954.0	823.6	496.1	197.1	111.3	99.2	90.2	82.7	76.3	73.1	72.6
27.5°	946.4	798.7	429.9	146.0	99.4	88.2	77.2	67.9	61.6	58.1	58.4
30°	934.3	772.7	363.7	115.9	89.9	76.9	65.0	56.1	50.0	47.4	47.1
32.5°	919.8	741.2	303.0	99.4	81.2	66.8	54.3	46.5	41.9	39.9	39.6
35°	906.3	709.4	241.1	89.3	72.3	57.5	45.7	39.0	35.6	33.8	34.1
37.5°	898.7	681.1	187.9	81.2	65.0	49.4	39.3	33.5	30.4	28.9	28.6
40°	903.7	657.9	149.5	74.0	56.9	42.5	33.8	28.9	25.7	23.7	23.7
42.5°	926.8	647.8	120.5	67.1	49.4	36.7	29.5	24.9	21.4	19.4	19.7
45°	997.3	658.5	100.9	60.7	42.5	31.8	25.4	20.5	17.3	15.9	15.6
47.5°	1114.4	698.7	87.3	54.1	36.4	27.2	21.4	17.1	13.9	12.7	12.4
50°	1319.1	781.7	77.2	47.4	30.9	23.1	17.6	13.6	11.0	9.8	9.8
52.5°	1600.6	962.6	70.0	39.9	26.0	19.7	14.5	11.0	8.7	7.8	7.5
55°	1894.9	1153.4	66.2	33.5	21.7	16.2	11.6	8.7	6.6	5.8	5.5
57.5°	2177.9	1303.2	61.9	27.2	17.3	12.4	9.0	6.6	4.6	4.0	3.8
60°	2449.3	1424.3	52.6	21.7	13.6	9.0	6.6	4.6	3.2	2.6	2.6
62.5°	2692.2	1494.8	41.3	17.3	10.4	6.4	4.3	3.5	2.3	1.7	1.7
65°	2720.5	1403.2	31.2	13.3	7.5	4.0	2.6	2.6	1.7	1.2	1.2
66°	2663.5	1325.4	27.5	12.1	6.6	3.5	2.3	2.0	1.4	0.9	0.9
67.5°	2536.4	1192.7	23.7	10.4	5.5	2.6	1.7	1.7	1.2	0.6	0.6
70°	2191.5	974.2	18.8	7.8	4.0	2.0	1.2	1.2	0.9	0.6	0.6
72.5°	1670.3	727.3	15.3	5.8	2.9	1.4	0.9	0.9	0.9	0.6	0.6
75°	1007.4	391.7	11.9	4.3	2.6	1.2	0.6	0.9	1.2	0.9	0.6
77.5°	371.2	133.3	9.3	3.5	2.0	1.2	0.6	0.6	1.2	0.9	0.9
80°	91.1	34.7	6.6	2.9	2.0	1.2	0.6	0.6	1.2	1.2	1.2
82.5°	42.2	14.7	4.6	2.6	2.0	1.2	0.6	0.6	0.9	1.2	1.2
85°	24.3	6.9	3.8	2.9	2.0	1.2	0.6	0.6	0.9	1.2	1.2
87.5°	9.8	3.5	3.5	2.9	2.3	1.4	0.6	0.6	0.6	0.9	0.9
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)