

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: P451289

Luminaire Tested: **GALN-SA2A-827-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451289  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2A-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6746 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

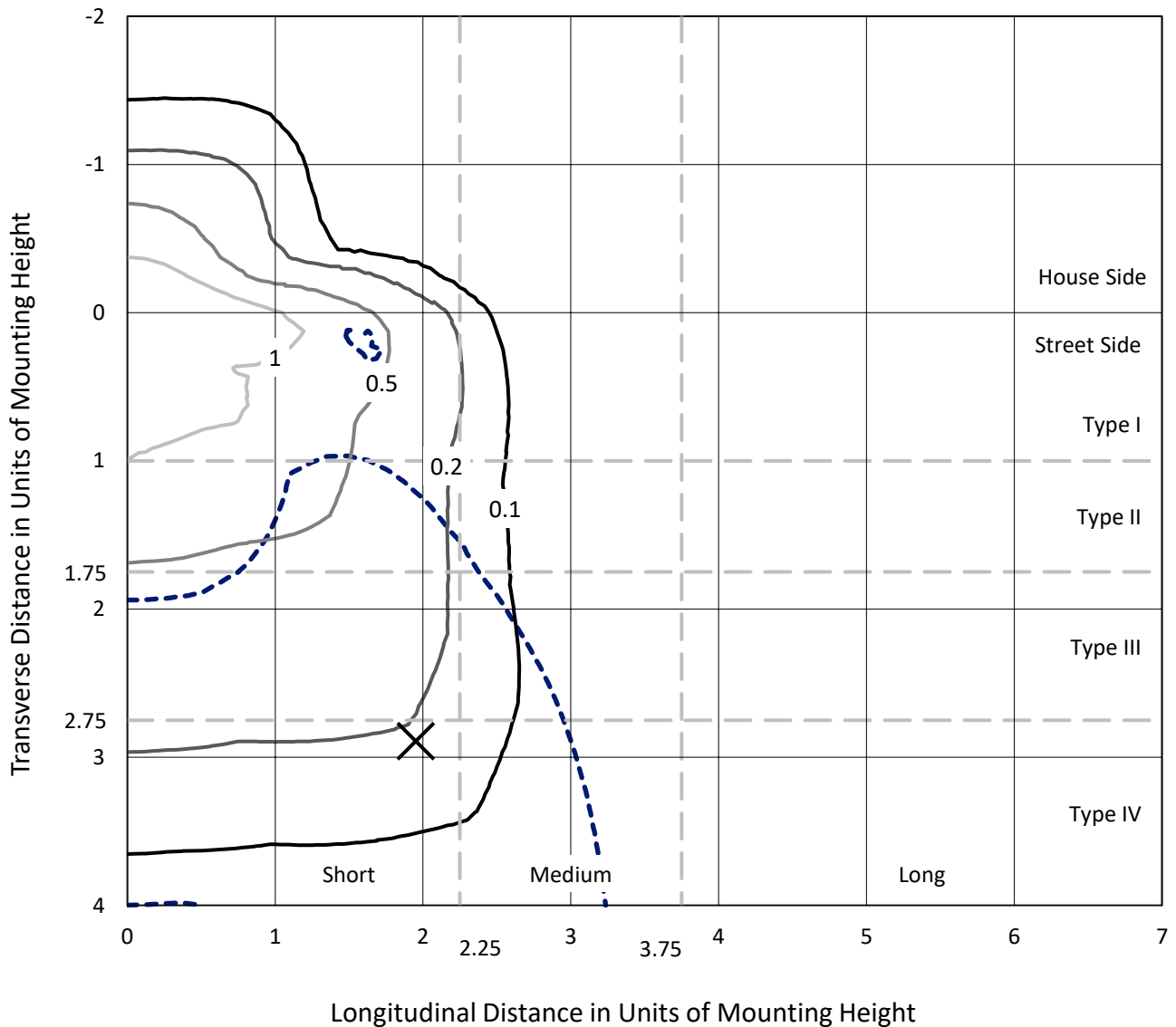
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

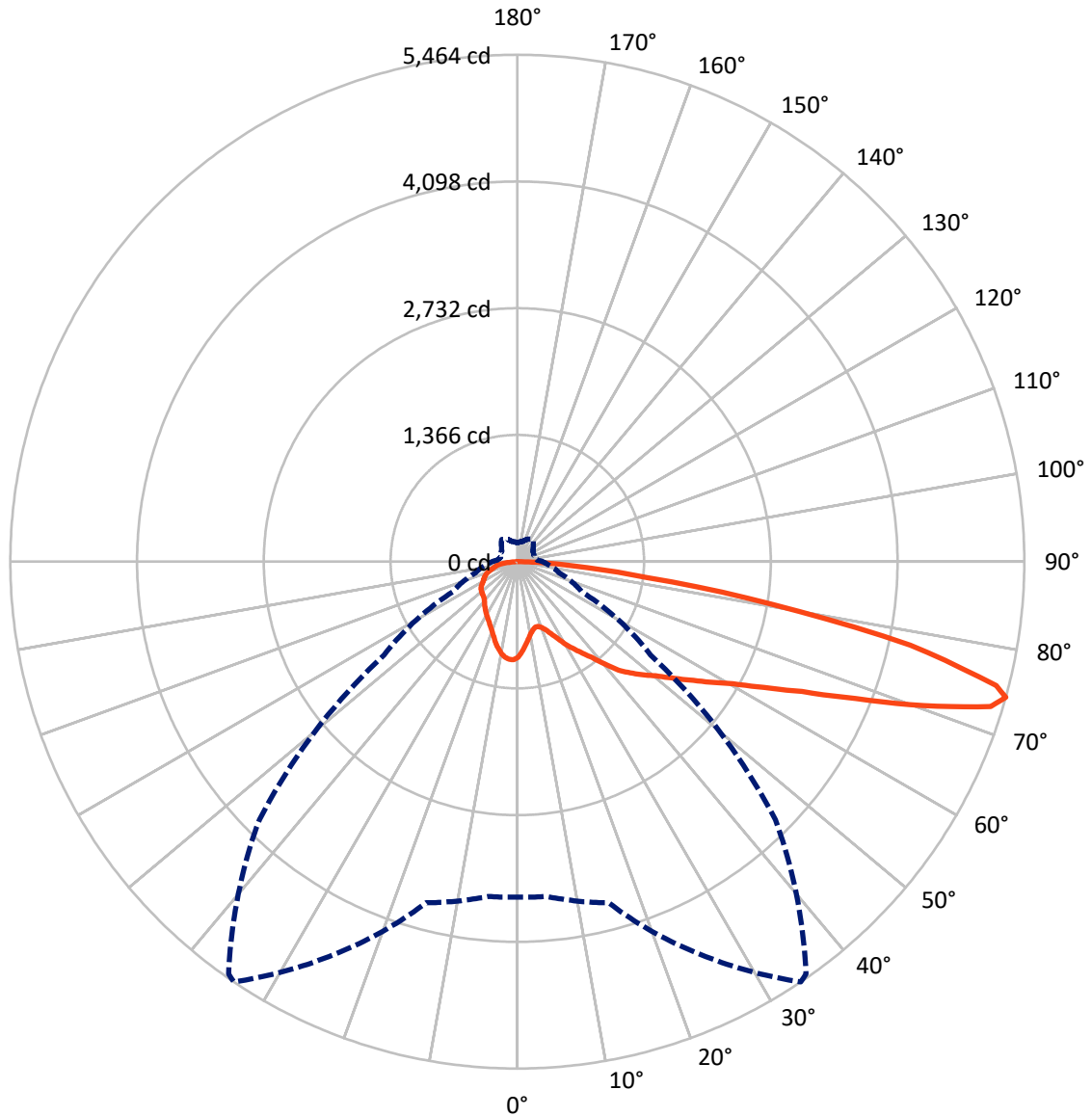
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1435.6	0.0	1435.6
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	5310.4	0.0	5310.4
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	6746.0	0.0	6746.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.7	1.4
10°-20°	256.4	3.8
20°-30°	422.8	6.3
30°-40°	633.3	9.4
40°-50°	920.6	13.6
50°-60°	1285.9	19.1
60°-70°	1609.8	23.9
70°-80°	1331.2	19.7
80°-90°	192.4	2.9
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°	6746.0	100.0
0°-180°	6746.0	100.0

**Coefficient of Utilization**



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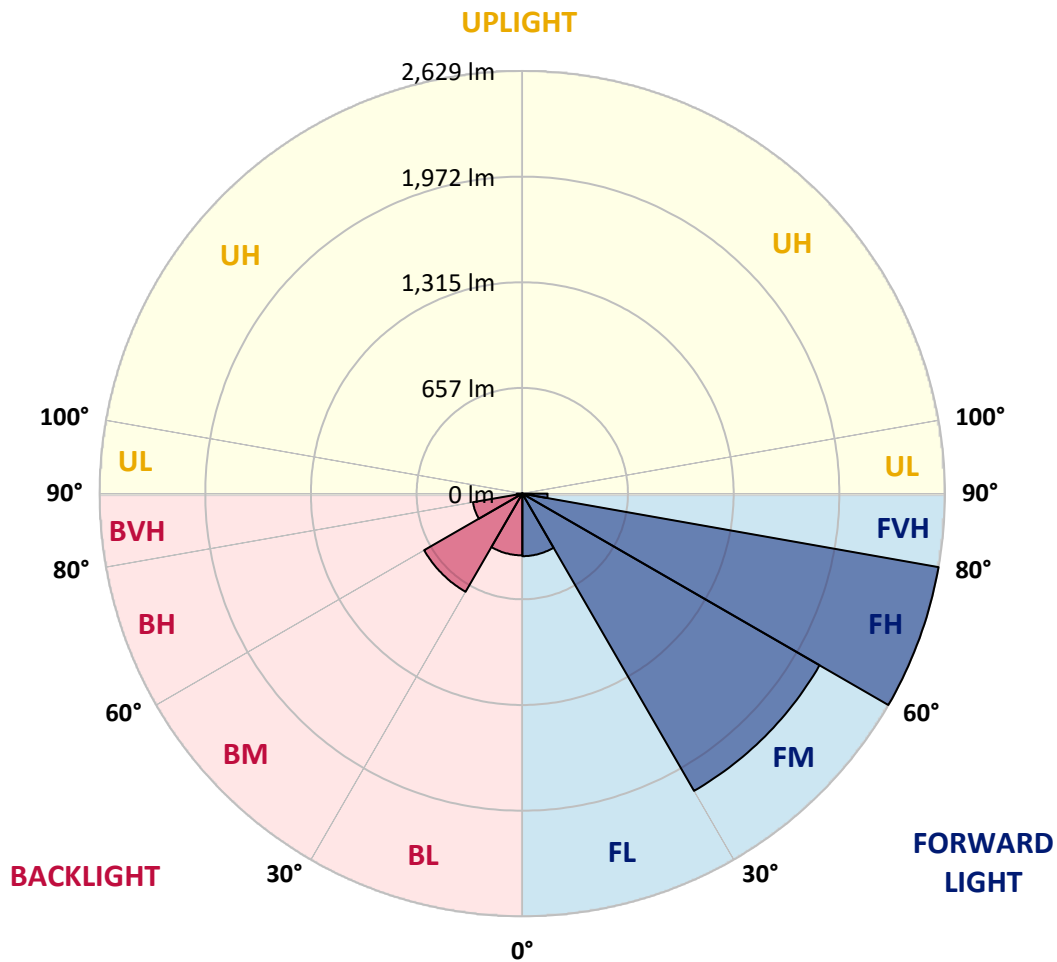
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	388.9	5.8			
FM (30°-60°)	2134.7	31.6			
FH (60°-80°)	2629.2	39.0			G2/5000
FVH (80°-90°)	157.6	2.3			G2/225
BL (0°-30°)	384.0	5.7	B1/500		
BM (30°-60°)	705.0	10.5	B1/1000		
BH (60°-80°)	311.8	4.6	B1/500		G1/500
BVH (80°-90°)	34.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0
2.5°	951.9	956.7	959.3	968.7	970.9	973.9	981.8	992.2	1005.7	1017.6	1028.1
5°	872.6	880.1	884.6	892.8	908.9	910.4	931.3	955.2	982.5	1007.9	1028.9
7.5°	797.5	805.7	809.5	824.4	845.7	849.1	879.7	917.5	963.1	1001.6	1033.7
10°	741.1	745.2	753.4	764.6	790.1	792.3	832.3	882.7	941.8	998.6	1041.9
12.5°	710.4	712.7	714.6	726.5	751.6	754.9	796.8	854.0	925.0	1000.8	1055.4
15°	714.9	715.7	707.5	709.7	729.9	734.7	776.2	834.9	914.5	1006.4	1075.6
17.5°	752.7	750.1	729.9	719.4	733.6	735.9	772.1	827.4	909.6	1016.9	1096.5
20°	812.1	808.4	773.6	750.4	758.7	760.5	785.6	833.0	914.5	1034.1	1129.0
22.5°	886.1	884.6	831.9	803.9	803.5	803.5	816.6	853.2	929.1	1057.6	1163.0
25°	989.6	981.8	913.0	876.8	866.7	865.9	864.4	886.5	947.8	1082.7	1203.4
27.5°	1095.8	1082.3	1021.0	965.3	943.7	941.0	931.3	933.6	971.7	1111.1	1249.4
30°	1191.1	1182.5	1124.9	1063.2	1037.5	1031.5	1004.6	992.2	1011.7	1162.3	1322.6
32.5°	1263.9	1258.7	1213.9	1157.8	1119.7	1118.6	1079.3	1069.2	1074.1	1224.3	1406.3
35°	1323.0	1324.8	1302.1	1253.5	1209.7	1203.4	1177.2	1164.5	1150.3	1314.0	1511.7
37.5°	1403.7	1407.8	1406.3	1364.5	1311.0	1312.5	1306.5	1285.6	1247.9	1414.2	1628.7
40°	1492.6	1495.6	1495.3	1479.2	1451.2	1452.7	1450.4	1426.5	1370.1	1541.6	1758.7
42.5°	1615.6	1601.4	1564.4	1580.5	1596.9	1604.0	1619.3	1596.5	1519.2	1677.6	1880.9
45°	1753.1	1726.2	1642.5	1650.0	1710.9	1724.4	1808.8	1777.4	1681.0	1833.9	2024.8
47.5°	1839.8	1813.3	1742.7	1741.2	1821.9	1835.0	1984.5	1972.9	1828.3	2002.4	2200.5
50°	1917.2	1913.5	1833.9	1852.9	1931.8	1951.2	2175.8	2165.0	1975.1	2201.2	2391.8
52.5°	2031.9	2001.7	1938.1	1977.4	2081.6	2107.1	2365.7	2333.9	2110.0	2376.9	2577.6
55°	2083.5	2076.4	2072.7	2106.7	2249.8	2268.1	2550.3	2477.4	2225.1	2525.6	2718.8
57.5°	2221.4	2208.3	2245.3	2268.5	2447.9	2475.9	2743.1	2627.3	2326.1	2643.7	2787.6
60°	2400.0	2392.9	2427.0	2468.8	2669.1	2711.7	2962.9	2755.1	2407.2	2703.1	2749.9
62.5°	2666.9	2666.1	2659.8	2749.5	2982.7	3021.9	3215.1	2879.5	2419.9	2658.7	2554.8
65°	3049.6	3036.1	2980.8	3078.7	3372.9	3418.8	3477.9	2949.0	2343.2	2430.3	2151.1
67.5°	3449.8	3449.1	3404.2	3531.3	3933.1	3980.5	3806.4	2933.7	2130.6	1968.8	1527.8
70°	3781.7	3765.6	3822.8	4161.4	4648.7	4703.7	4093.8	2753.2	1697.1	1300.2	907.8
72.5°	3861.3	3862.1	3980.9	4647.2	5336.0	5344.6	4197.3	2231.5	1135.7	717.2	454.1
74°	3616.1	3622.5	3806.7	4671.5	5464.2	5425.3	3932.7	1753.9	768.0	468.3	327.4
75°	3300.7	3260.7	3527.2	4509.7	5331.2	5289.3	3622.9	1407.4	586.0	374.1	286.6
77.5°	1764.7	1805.5	2216.6	3365.4	4331.1	4282.9	2456.5	674.9	316.5	260.5	206.3
80°	628.2	692.9	973.9	1761.0	2776.8	2791.7	1172.4	309.4	222.7	192.1	145.8
82.5°	256.4	263.5	418.2	781.5	1410.1	1423.5	478.7	183.9	159.2	132.3	87.1
85°	100.2	103.1	185.0	351.3	601.7	640.9	165.6	97.2	97.9	75.9	44.5
87.5°	33.6	38.1	75.9	117.0	204.4	200.3	48.2	28.8	35.1	32.9	13.8
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°	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0
2.5°	1033.3	1040.4	1045.3	1050.5	1055.4	1056.9	1055.8	1059.1	1059.5	1059.9	1060.3
5°	1039.3	1049.0	1058.4	1063.6	1065.9	1064.0	1057.6	1054.3	1051.3	1049.0	1049.8
7.5°	1047.5	1061.4	1070.0	1072.2	1066.2	1057.6	1041.9	1029.6	1021.8	1016.5	1016.2
10°	1060.3	1073.7	1080.8	1074.5	1058.0	1037.1	1012.4	989.2	971.7	966.4	966.1
12.5°	1076.3	1091.6	1091.3	1072.6	1043.8	1006.4	966.4	939.5	915.6	903.7	908.5
15°	1097.3	1108.8	1098.0	1064.4	1018.8	967.6	918.2	881.6	854.7	842.0	842.7
17.5°	1121.5	1131.6	1102.9	1049.8	983.6	917.9	860.7	825.9	804.6	795.3	794.5
20°	1151.8	1154.8	1102.9	1024.4	938.4	859.9	805.4	781.1	769.1	764.3	765.8
22.5°	1184.3	1178.3	1096.9	988.5	879.0	799.4	762.8	751.9	746.0	745.2	746.0
25°	1221.0	1204.1	1084.5	939.9	817.0	747.1	725.8	727.6	728.8	728.8	731.4
27.5°	1265.8	1232.2	1064.0	878.6	744.5	698.5	692.5	705.6	711.6	712.7	714.6
30°	1324.8	1262.8	1030.0	802.0	682.8	654.8	665.2	682.8	689.5	693.6	692.9
32.5°	1395.1	1296.4	984.0	725.4	633.1	624.1	636.8	654.8	662.2	664.5	661.5
35°	1477.7	1334.6	923.5	653.6	589.7	595.0	609.9	615.5	622.2	622.2	623.7
37.5°	1566.6	1365.2	849.5	587.9	556.1	575.2	586.0	580.8	577.8	574.0	575.9
40°	1657.1	1388.0	753.4	522.8	522.5	554.6	557.6	542.6	530.7	526.9	525.1
42.5°	1735.9	1402.2	666.7	472.4	490.7	534.4	536.7	512.7	493.7	482.5	478.7
45°	1829.0	1418.7	581.9	430.5	461.2	518.4	524.0	491.8	463.8	440.2	434.3
47.5°	1956.4	1456.0	515.0	398.0	439.9	508.3	516.1	474.6	437.6	407.0	402.1
50°	2100.3	1507.2	463.0	376.0	423.4	499.3	509.0	457.1	413.3	379.3	375.6
52.5°	2232.2	1534.9	418.2	356.2	407.4	482.9	499.7	444.4	389.4	351.7	348.3
55°	2304.4	1490.0	374.1	336.7	385.3	461.5	486.6	426.8	366.2	337.1	332.2
57.5°	2314.1	1397.4	334.1	315.8	362.1	435.4	462.3	405.5	351.3	327.0	322.9
60°	2239.0	1259.1	303.1	298.6	338.6	405.9	435.0	386.8	336.0	315.8	311.7
62.5°	2052.1	1108.8	281.4	282.9	314.7	374.8	414.8	368.9	321.4	303.5	299.7
65°	1730.7	915.2	260.5	266.8	293.4	350.6	396.5	353.9	306.8	294.1	290.8
67.5°	1202.3	660.7	243.3	250.0	273.2	325.9	375.2	337.8	290.4	283.7	278.4
70°	665.6	406.6	223.1	231.0	252.3	298.2	351.3	313.6	266.5	263.5	256.0
72.5°	349.8	259.0	200.3	208.9	223.9	262.7	314.7	287.0	242.9	230.2	220.5
74°	273.2	212.3	185.0	194.0	204.1	241.8	293.0	268.0	226.1	211.2	203.7
75°	238.1	189.1	171.9	183.5	192.5	227.6	276.2	254.5	216.8	202.6	195.8
77.5°	168.2	141.6	140.5	154.3	159.2	199.6	248.9	231.7	193.2	178.3	171.9
80°	118.1	106.1	111.4	120.0	126.7	176.4	231.0	200.3	158.5	140.9	138.7
82.5°	77.0	69.5	79.6	87.5	89.7	130.1	186.5	152.1	115.5	93.8	87.1
85°	35.5	34.8	45.6	44.5	44.1	63.5	110.6	88.9	66.5	49.7	46.7
87.5°	9.0	8.6	11.2	9.3	11.2	9.7	10.1	2.6	0.4	0.0	0.0
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)