

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: P527152

Luminaire Tested: **GALN-SA2A-827-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527152  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-827-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5764 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

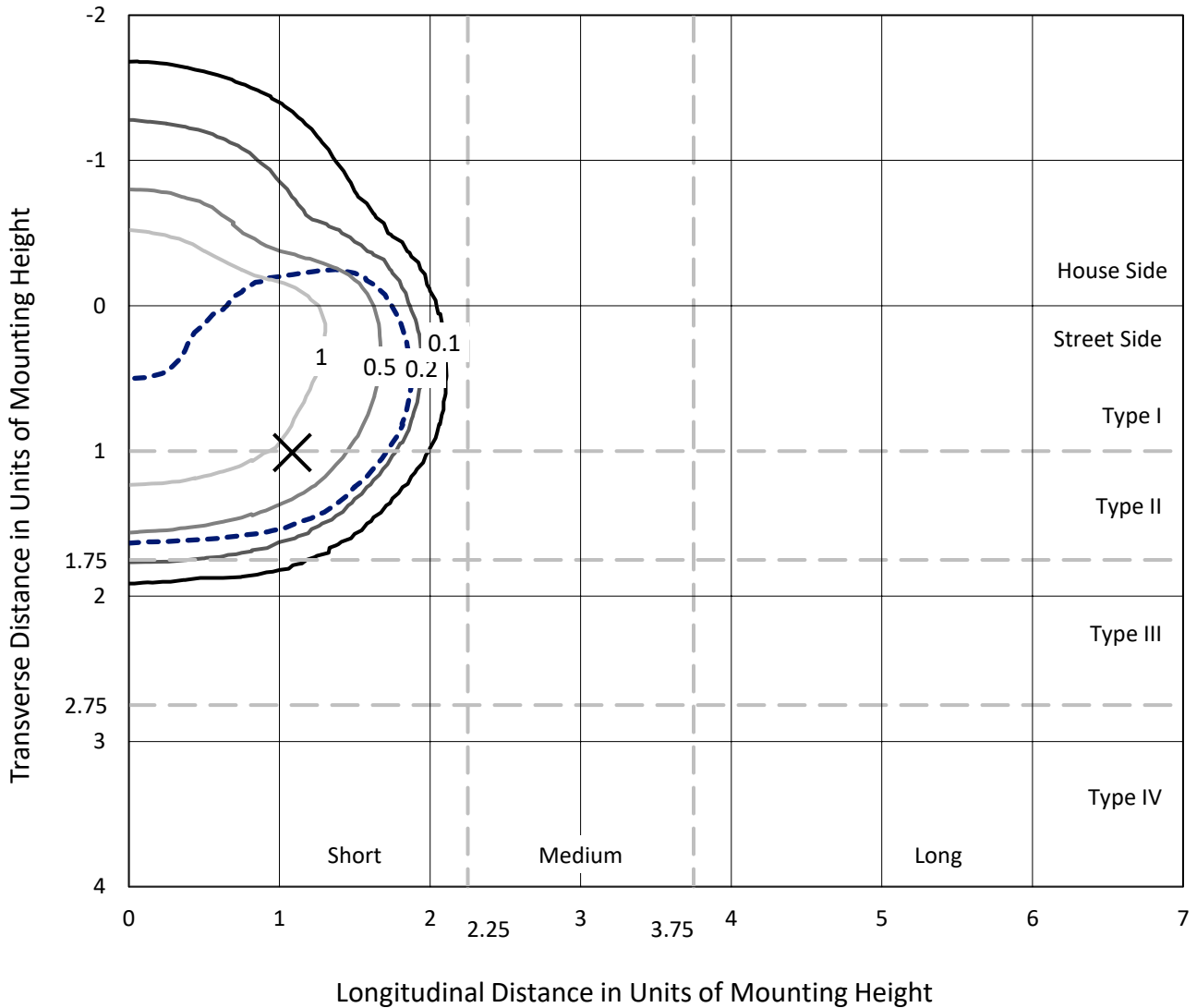
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P527152  
 CATALOG NUMBER: GALN-SA2A-827-U-T3-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

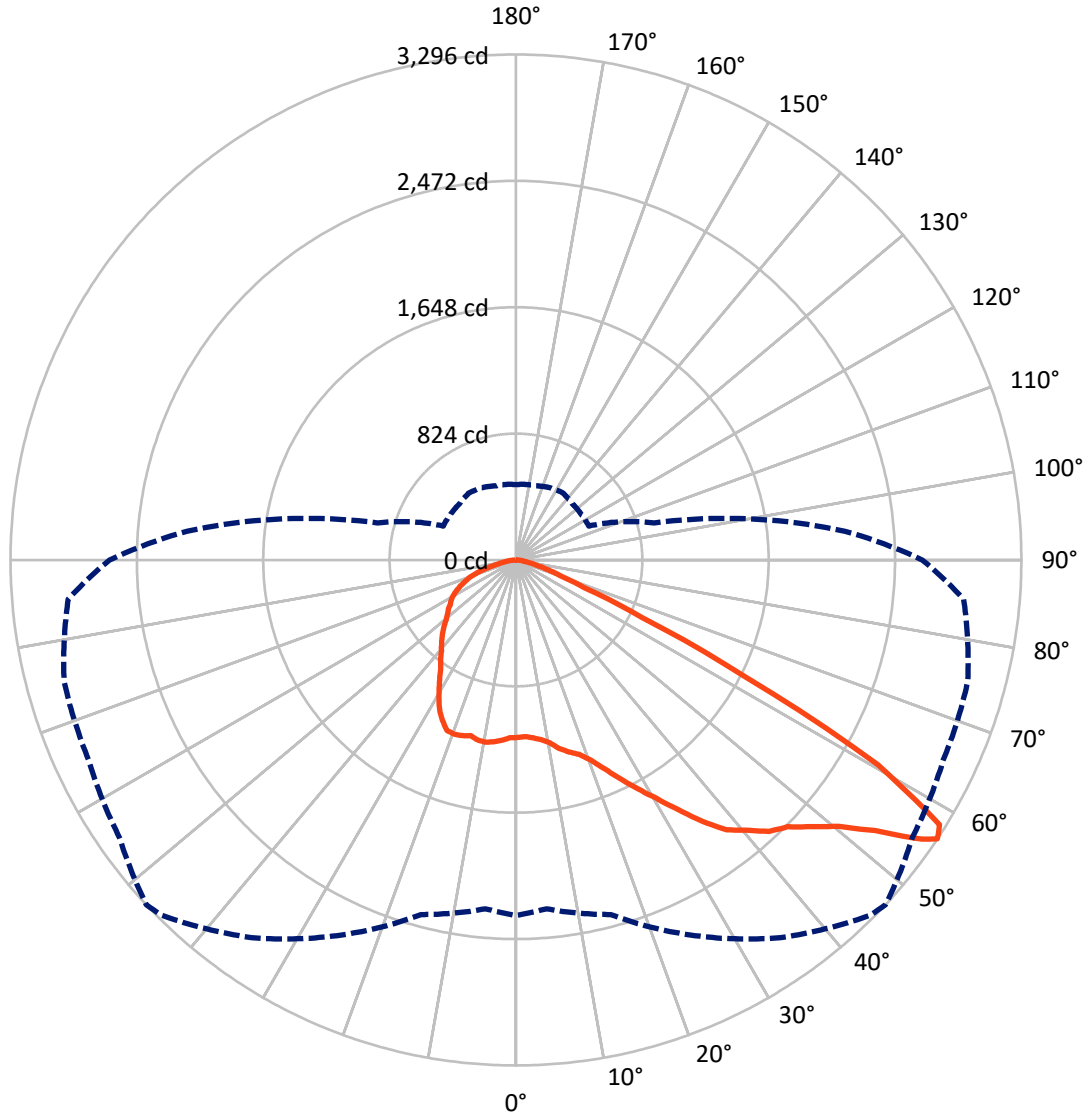
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P527152  
CATALOG NUMBER: GALN-SA2A-827-U-T3-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P527152  
 CATALOG NUMBER: GALN-SA2A-827-U-T3-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1826.5	0.0	1826.5
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	3937.5	0.0	3937.5
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	5764.0	0.0	5764.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.8	2.0
10°-20°	355.9	6.2
20°-30°	629.1	10.9
30°-40°	944.9	16.4
40°-50°	1296.7	22.5
50°-60°	1544.9	26.8
60°-70°	661.1	11.5
70°-80°	187.1	3.2
80°-90°	31.5	0.5
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°	5764.0	100.0
0°-180°	5764.0	100.0

**Coefficient of Utilization**

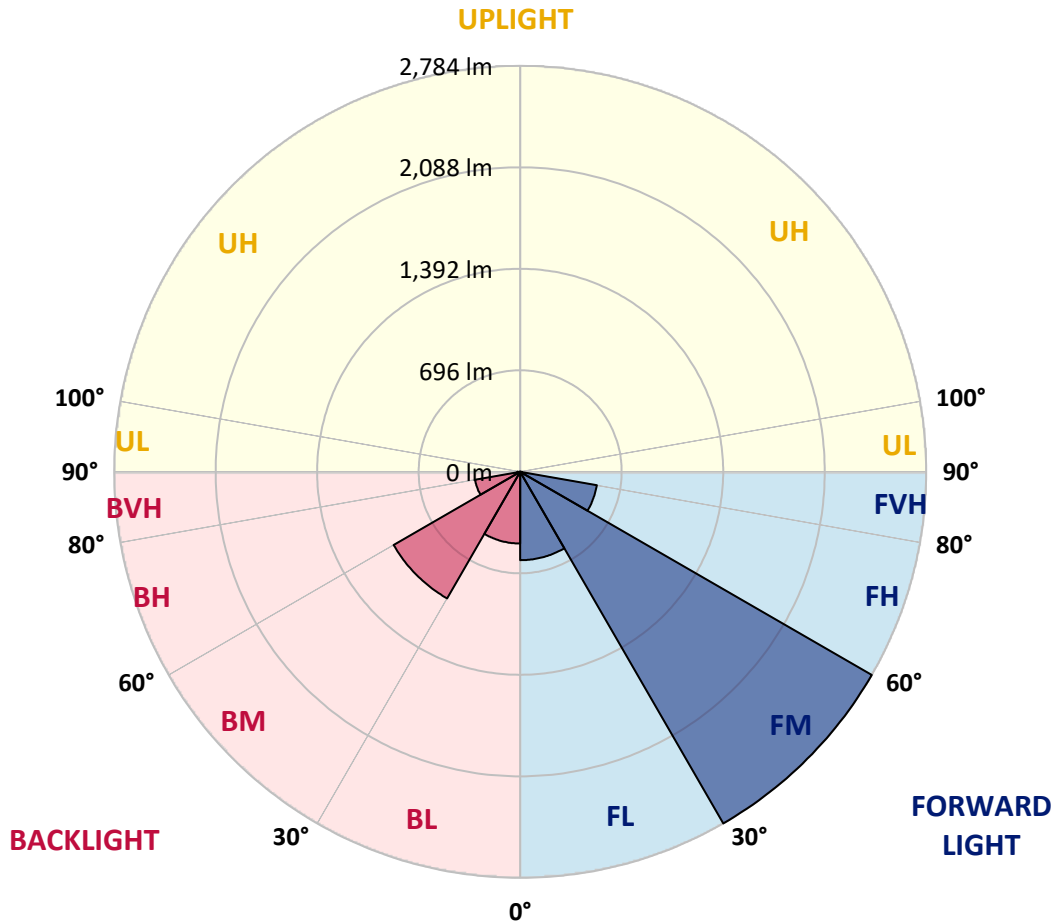


REPORT NUMBER: P527152  
 CATALOG NUMBER: GALN-SA2A-827-U-T3-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	606.0	10.5			
FM (30°-60°)	2784.1	48.3			
FH (60°-80°)	534.0	9.3			G0/660
FVH (80°-90°)	13.4	0.2			G1/100
BL (0°-30°)	491.8	8.5	B1/500		
BM (30°-60°)	1002.4	17.4	B2/2500		
BH (60°-80°)	314.3	5.5	B1/500		G1/500
BVH (80°-90°)	18.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





REPORT NUMBER: P527152

CATALOG NUMBER: GALN-SA2A-827-U-T3-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8
2.5°	1153.4	1151.2	1149.7	1161.5	1157.1	1157.8	1153.4	1157.8	1160.8	1154.1	1163.7
5°	1151.2	1157.8	1151.9	1155.6	1165.2	1162.2	1165.2	1174.0	1171.8	1169.6	1166.6
7.5°	1171.8	1172.5	1176.9	1178.4	1181.3	1178.4	1182.8	1190.9	1188.7	1176.2	1177.7
10°	1201.2	1202.7	1203.4	1211.5	1216.6	1217.4	1212.2	1204.9	1204.1	1221.0	1209.3
12.5°	1235.0	1231.3	1240.1	1243.1	1249.0	1255.6	1262.2	1246.8	1256.3	1257.1	1243.1
15°	1284.3	1287.9	1277.6	1277.6	1279.8	1280.6	1299.0	1291.6	1290.1	1282.0	1287.9
17.5°	1357.8	1332.8	1332.0	1321.7	1320.3	1326.2	1332.8	1338.7	1358.5	1342.3	1310.7
20°	1411.4	1417.3	1396.0	1383.5	1385.7	1398.9	1392.3	1418.8	1432.7	1406.3	1375.4
22.5°	1506.3	1486.4	1491.6	1463.6	1465.8	1479.8	1479.1	1506.3	1514.3	1472.4	1427.6
25°	1570.2	1565.1	1569.5	1547.4	1550.4	1561.4	1579.0	1623.9	1610.6	1564.3	1460.7
27.5°	1663.6	1653.3	1649.6	1641.5	1638.6	1668.0	1688.6	1736.4	1726.8	1659.2	1519.5
30°	1759.1	1752.5	1756.2	1723.1	1734.9	1797.4	1803.2	1868.7	1864.3	1745.2	1584.9
32.5°	1825.3	1829.0	1835.6	1817.2	1869.4	1919.4	1939.2	2013.5	2017.2	1892.9	1711.4
35°	1931.9	1919.4	1923.1	1944.4	1968.6	2059.8	2092.1	2141.4	2172.3	2048.0	1832.7
37.5°	1998.8	2012.0	1996.6	2030.4	2093.6	2203.2	2232.6	2283.3	2315.6	2200.9	1998.1
40°	2103.2	2081.9	2092.9	2117.1	2181.8	2324.4	2316.4	2368.6	2378.8	2331.1	2152.4
42.5°	2215.6	2205.4	2189.9	2245.1	2299.5	2403.1	2419.3	2395.0	2447.2	2458.2	2373.0
45°	2350.2	2362.7	2364.9	2366.3	2414.1	2504.6	2482.5	2461.2	2521.5	2601.6	2509.7
47.5°	2475.1	2435.4	2464.1	2503.8	2571.4	2572.2	2597.9	2547.2	2611.1	2682.4	2633.2
50°	2517.0	2497.9	2536.2	2611.1	2715.5	2726.6	2729.5	2657.5	2690.5	2747.1	2675.8
52.5°	2500.9	2494.3	2592.0	2708.2	2861.1	2917.0	2931.7	2842.7	2861.1	2835.4	2769.9
55°	2423.7	2443.5	2542.0	2778.7	3013.3	3186.0	3213.9	3101.5	2984.6	3004.4	2932.4
56°	2317.8	2283.3	2393.5	2698.6	3006.6	3273.5	3296.3	3155.9	3076.5	3050.7	2930.9
57.5°	1966.4	1921.6	2066.4	2428.1	2839.8	3240.4	3257.3	3178.7	3061.0	3008.8	2717.0
60°	1151.2	1173.2	1357.0	1674.6	2190.7	2656.7	2713.3	2770.7	2692.0	2458.2	2022.3
62.5°	555.7	541.8	673.4	960.1	1335.0	1695.9	1679.0	1840.0	1928.2	1746.6	1276.9
65°	291.1	289.6	367.6	524.1	733.6	891.0	906.4	993.1	1114.4	899.8	648.4
67.5°	213.9	219.8	258.8	368.3	471.9	481.5	479.3	522.7	534.4	452.1	398.4
70°	167.6	170.5	199.2	280.1	351.4	314.6	308.0	313.2	347.7	362.4	344.8
72.5°	121.3	124.2	148.5	188.9	219.8	214.7	219.1	247.7	290.4	305.8	287.4
75°	80.9	83.1	96.3	115.4	130.1	140.4	148.5	181.6	221.3	230.1	221.3
77.5°	55.9	58.1	66.9	81.6	83.1	89.7	92.6	108.1	132.3	143.3	137.5
80°	31.6	31.6	36.0	41.9	51.5	60.3	61.7	74.2	85.3	92.6	94.1
82.5°	14.7	15.4	19.1	25.7	33.8	41.9	43.4	51.5	59.5	66.9	69.1
85°	7.4	8.1	11.0	15.4	20.6	25.0	24.3	25.0	26.5	25.0	25.7
87.5°	2.2	2.2	2.9	3.7	2.9	3.7	3.7	4.4	5.1	5.9	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P527152

CATALOG NUMBER: GALN-SA2A-827-U-T3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8	1157.8
2.5°	1164.4	1166.6	1151.9	1165.9	1160.8	1160.0	1170.3	1168.8	1172.5	1171.0	1162.2
5°	1165.2	1160.0	1175.5	1161.5	1168.1	1182.1	1172.5	1194.6	1183.5	1190.9	1174.7
7.5°	1188.0	1189.4	1186.5	1192.4	1189.4	1196.0	1190.9	1196.0	1187.2	1188.0	1202.7
10°	1207.8	1203.4	1208.5	1201.2	1206.3	1204.1	1192.4	1188.7	1191.6	1188.0	1197.5
12.5°	1244.6	1236.5	1232.8	1224.0	1218.1	1196.0	1177.7	1167.4	1181.3	1183.5	1179.1
15°	1282.0	1282.8	1265.9	1246.0	1209.3	1176.2	1180.6	1184.3	1184.3	1190.2	1179.1
17.5°	1305.6	1305.6	1290.1	1250.4	1212.9	1193.8	1189.4	1177.7	1167.4	1165.9	1165.2
20°	1346.7	1334.2	1299.0	1249.7	1211.5	1202.7	1169.6	1141.6	1120.3	1113.0	1112.2
22.5°	1393.8	1362.2	1312.9	1251.2	1209.3	1196.8	1135.0	1093.1	1054.9	1038.7	1040.9
25°	1437.2	1386.4	1321.0	1244.6	1201.2	1140.9	1071.8	1013.7	974.0	960.8	954.2
27.5°	1467.3	1412.2	1321.0	1250.4	1171.0	1078.4	1007.8	933.6	899.1	890.2	891.7
30°	1507.7	1444.5	1343.8	1237.9	1110.8	997.6	913.0	864.5	843.9	836.6	841.7
32.5°	1602.6	1529.0	1375.4	1207.8	1039.5	916.7	848.3	821.1	791.0	776.3	771.1
35°	1705.5	1609.2	1406.3	1157.1	959.3	843.2	800.5	775.6	739.5	723.4	726.3
37.5°	1851.0	1712.1	1408.5	1073.3	872.6	802.0	763.1	724.1	694.7	669.7	662.3
40°	2047.3	1852.5	1403.3	985.1	802.7	753.5	724.8	676.3	643.2	625.6	629.3
42.5°	2220.1	2017.2	1382.0	885.1	739.5	720.4	688.1	640.3	607.9	589.6	588.1
45°	2365.6	2138.5	1341.6	799.8	686.6	683.7	646.2	609.4	583.7	566.8	574.1
47.5°	2500.1	2236.2	1280.6	714.5	638.1	644.0	607.9	585.2	569.0	553.5	552.8
50°	2548.7	2234.8	1226.9	644.0	599.1	596.2	594.7	570.5	553.5	540.3	546.2
52.5°	2629.5	2259.8	1168.8	595.4	563.8	564.6	569.7	552.1	533.0	524.9	532.2
55°	2745.7	2263.4	1040.9	538.8	534.4	539.6	539.6	527.8	511.6	505.0	501.4
56°	2650.8	2153.9	933.6	524.1	519.7	519.7	533.7	520.5	500.6	495.5	491.1
57.5°	2445.0	1887.1	781.4	506.5	499.9	510.2	517.5	503.6	485.2	477.8	482.2
60°	1686.4	1276.9	587.4	468.3	468.3	485.2	491.1	470.5	462.4	461.7	455.8
62.5°	984.3	743.9	459.4	433.7	435.2	449.2	453.6	441.8	431.5	444.0	449.9
65°	521.9	444.0	394.0	397.0	397.7	408.7	427.8	427.1	426.4	430.0	430.8
67.5°	377.9	369.0	358.0	355.1	356.5	364.6	383.7	398.4	397.7	388.9	382.3
70°	336.7	324.2	317.6	318.3	312.4	322.0	337.4	347.0	330.1	319.8	315.4
72.5°	280.1	276.4	272.0	272.7	261.0	258.8	241.1	241.1	236.7	233.8	238.9
75°	213.9	212.4	214.7	211.0	198.5	185.2	175.0	165.4	150.7	144.8	141.9
77.5°	135.3	139.7	144.8	136.7	131.6	122.0	111.7	102.2	90.4	83.8	83.8
80°	91.9	95.6	99.2	97.8	91.9	83.1	75.0	64.7	56.6	51.5	50.7
82.5°	69.8	72.8	77.9	72.0	66.2	58.8	52.2	44.8	37.5	31.6	31.6
85°	25.0	28.7	31.6	34.6	36.8	37.5	32.3	26.5	21.3	16.9	16.2
87.5°	6.6	7.4	8.1	7.4	7.4	7.4	8.1	7.4	6.6	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)