

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: P527411

Luminaire Tested: **GALN-SA2B-830-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527411  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-830-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5430 lumens  
Efficiency: N/A  
Efficacy: 66.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

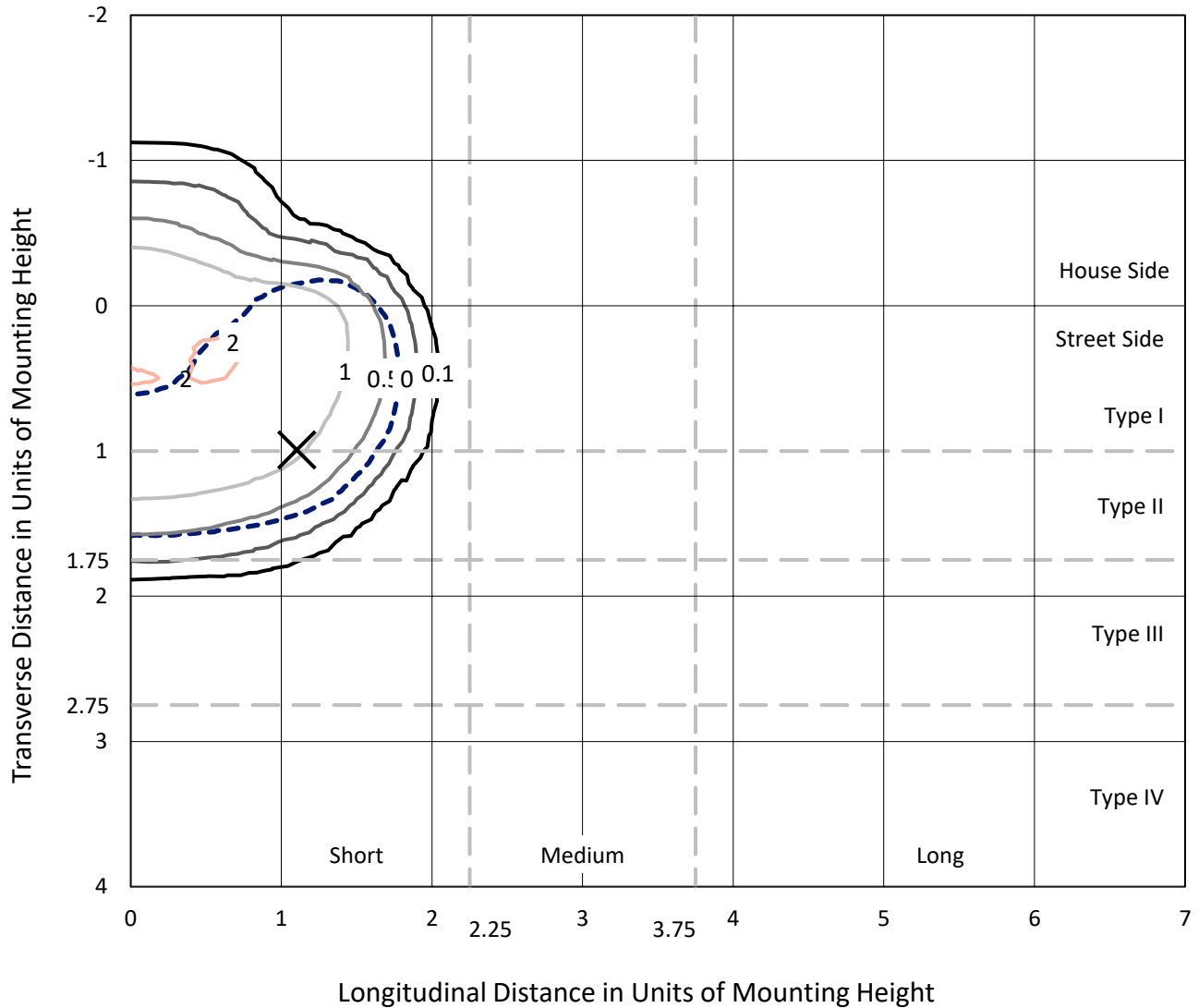
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P527411  
 CATALOG NUMBER: GALN-SA2B-830-U-T3-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

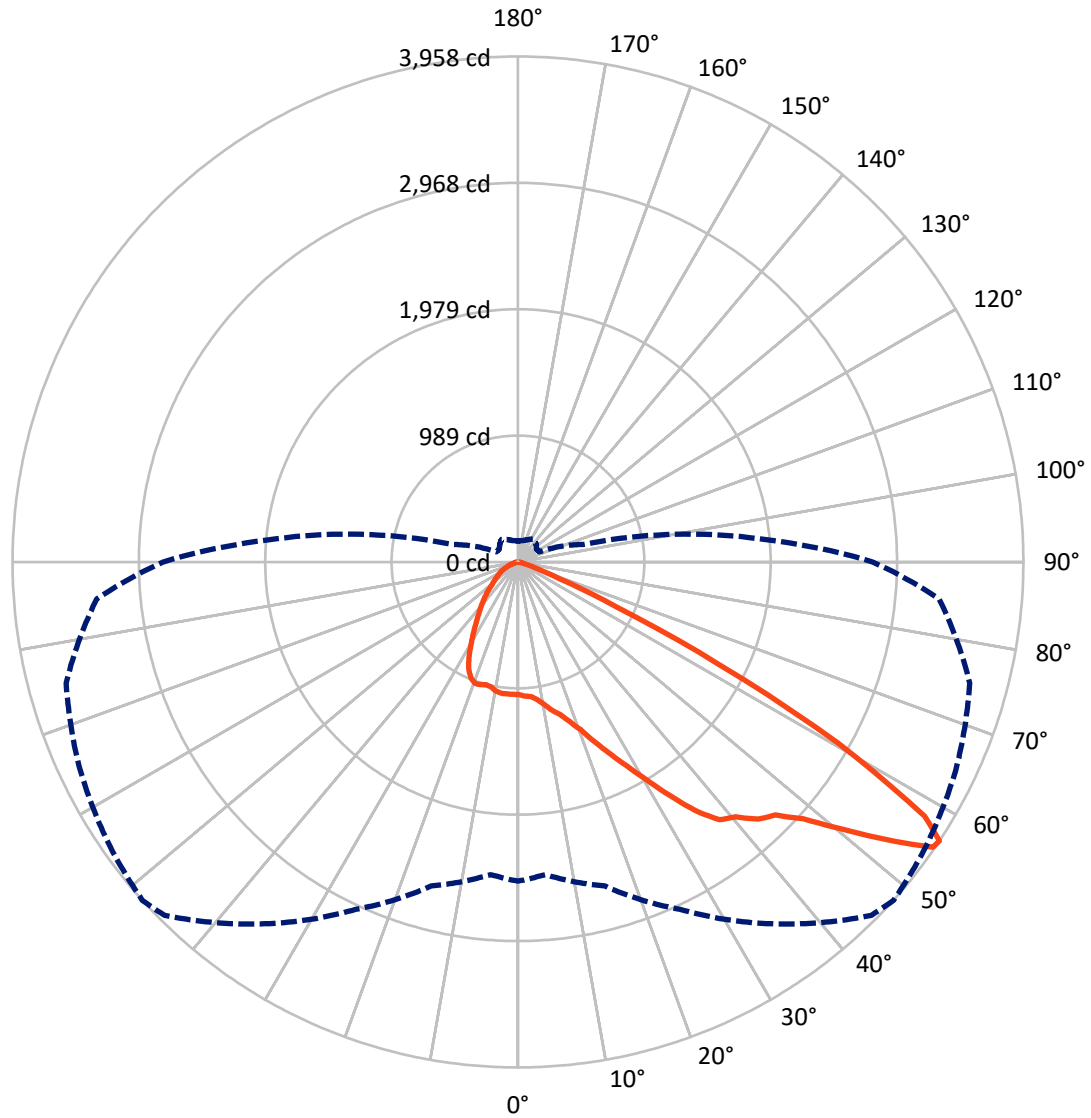
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P527411  
CATALOG NUMBER: GALN-SA2B-830-U-T3-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P527411  
 CATALOG NUMBER: GALN-SA2B-830-U-T3-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1180.9	0.0	1180.9
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	4249.1	0.0	4249.1
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	5430.0	0.0	5430.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.0	1.9
10°-20°	322.9	5.9
20°-30°	585.6	10.8
30°-40°	919.9	16.9
40°-50°	1341.9	24.7
50°-60°	1616.8	29.8
60°-70°	473.4	8.7
70°-80°	60.0	1.1
80°-90°	8.4	0.2
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°	5430.0	100.0
0°-180°	5430.0	100.0

**Coefficient of Utilization**

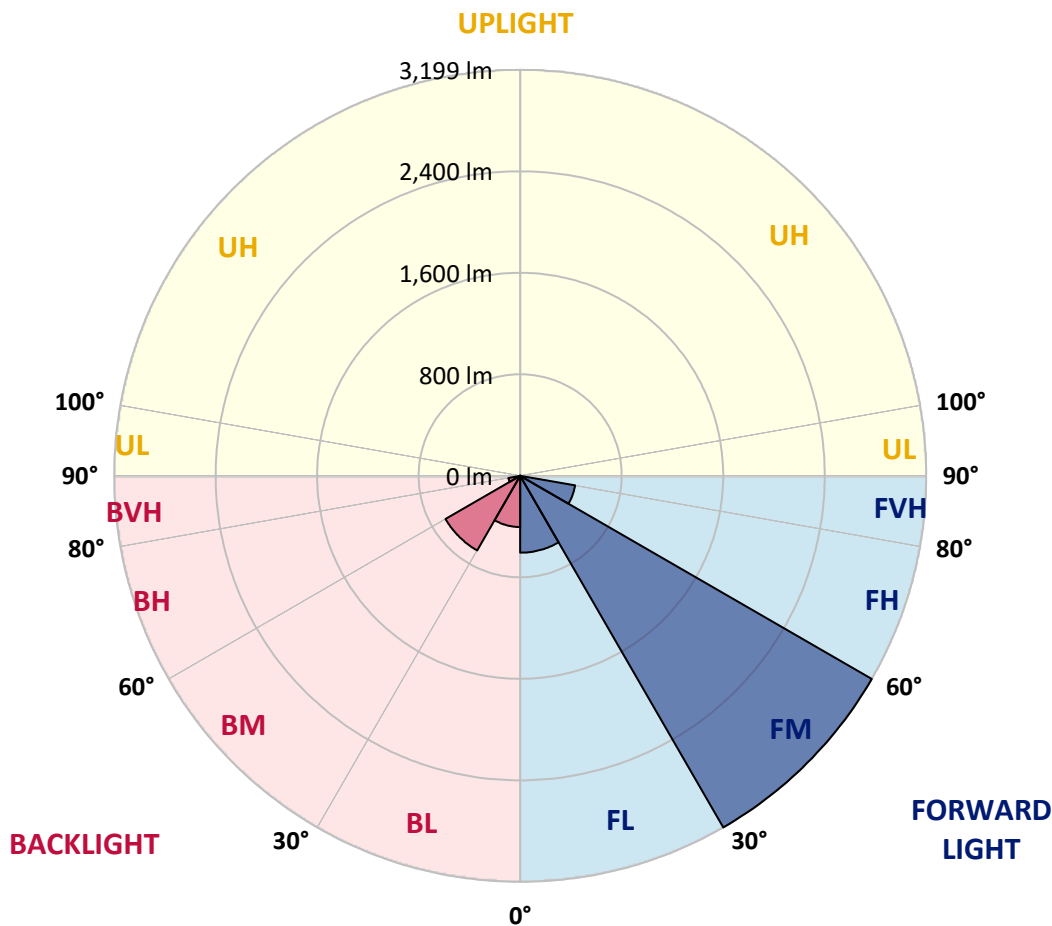


REPORT NUMBER: P527411  
 CATALOG NUMBER: GALN-SA2B-830-U-T3-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	605.9	11.2			
FM (30°-60°)	3199.4	58.9			
FH (60°-80°)	439.6	8.1			G0/660
FVH (80°-90°)	4.2	0.1			G0/10
BL (0°-30°)	403.6	7.4	B1/500		
BM (30°-60°)	679.3	12.5	B1/1000		
BH (60°-80°)	93.8	1.7	B0/110		G0/110
BVH (80°-90°)	4.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





REPORT NUMBER: P527411

CATALOG NUMBER: GALN-SA2B-830-U-T3-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1037.1	1037.1	1037.1	1037.1	1037.1	1037.1	1037.1	1037.1	1037.1	1037.1	1037.1
2.5°	1055.9	1051.0	1051.0	1043.1	1052.0	1048.0	1051.0	1041.1	1051.0	1036.1	1048.0
5°	1060.9	1061.8	1057.9	1062.8	1062.8	1068.8	1058.9	1067.8	1072.7	1061.8	1056.9
7.5°	1086.6	1088.5	1087.6	1083.6	1091.5	1090.5	1089.5	1082.6	1084.6	1080.6	1074.7
10°	1137.0	1136.0	1140.9	1131.1	1125.1	1132.0	1134.0	1123.1	1115.2	1112.3	1093.5
12.5°	1210.2	1198.3	1191.4	1181.5	1184.4	1174.6	1192.4	1173.6	1169.6	1151.8	1133.0
15°	1269.5	1267.5	1268.5	1252.7	1234.9	1238.8	1238.8	1228.9	1223.0	1201.3	1174.6
17.5°	1391.1	1349.6	1358.5	1338.7	1323.9	1322.9	1314.0	1315.9	1300.1	1254.6	1214.1
20°	1486.0	1468.2	1454.4	1420.7	1398.0	1404.9	1401.0	1391.1	1386.1	1326.8	1269.5
22.5°	1571.0	1577.0	1554.2	1545.3	1513.7	1516.6	1524.6	1515.7	1478.1	1416.8	1331.8
25°	1690.7	1683.7	1653.1	1642.2	1612.5	1623.4	1654.1	1647.2	1623.4	1512.7	1380.2
27.5°	1832.0	1808.3	1814.2	1764.8	1736.1	1766.8	1803.4	1838.0	1770.7	1625.4	1437.6
30°	1931.9	1907.2	1905.2	1903.2	1896.3	1931.9	1974.4	2006.0	1951.7	1738.1	1532.5
32.5°	1981.3	1987.3	2004.1	1998.1	2058.4	2131.6	2176.1	2221.6	2153.4	1922.0	1658.0
35°	2112.8	2075.3	2112.8	2116.8	2179.1	2334.3	2390.6	2499.4	2482.6	2182.0	1811.3
37.5°	2189.9	2187.0	2191.9	2229.5	2289.8	2481.6	2561.7	2645.7	2614.1	2338.2	2002.1
40°	2317.5	2325.4	2324.4	2353.1	2419.3	2592.3	2625.0	2693.2	2696.1	2554.8	2282.9
42.5°	2522.1	2490.5	2469.7	2499.4	2592.3	2688.2	2753.5	2739.7	2837.5	2817.8	2643.7
45°	2706.0	2724.8	2694.2	2743.6	2777.2	2828.6	2826.7	2856.3	2980.9	3074.8	2915.6
47.5°	2878.1	2889.9	2904.8	2938.4	3011.5	3019.4	3002.6	2989.8	3161.8	3258.7	3126.2
50°	2980.9	2991.8	3061.0	3121.3	3257.7	3275.5	3285.4	3252.8	3369.4	3380.3	3325.0
52.5°	2953.2	2965.1	3062.0	3260.7	3478.2	3641.3	3611.7	3556.3	3549.4	3591.9	3508.8
55°	2708.0	2697.1	2830.6	3140.1	3547.4	3938.9	3942.9	3884.6	3772.8	3744.2	3481.2
56°	2499.4	2456.9	2626.9	3000.7	3458.4	3913.2	3957.7	3895.4	3790.6	3662.1	3310.1
57.5°	2047.6	2088.1	2257.2	2566.6	3150.9	3728.3	3754.0	3739.2	3660.1	3444.6	2912.7
60°	1129.1	1200.3	1349.6	1728.2	2243.3	2861.3	2882.0	3002.6	3017.5	2637.8	2004.1
62.5°	479.5	471.6	626.8	905.6	1277.4	1727.2	1765.8	1889.4	1912.1	1520.6	1005.5
65°	194.8	205.6	283.8	455.8	675.3	787.0	841.4	881.9	957.0	627.8	370.8
67.5°	128.5	127.5	167.1	260.0	363.8	351.0	351.0	370.8	343.1	256.1	160.2
70°	91.9	94.9	119.6	179.9	226.4	168.1	161.2	154.2	175.0	169.1	129.5
72.5°	60.3	64.3	80.1	107.8	117.7	91.9	91.9	110.7	144.3	136.4	105.8
75°	39.5	40.5	49.4	62.3	58.3	47.5	52.4	74.2	104.8	100.8	75.1
77.5°	26.7	27.7	33.6	40.5	32.6	26.7	28.7	37.6	51.4	51.4	39.5
80°	9.9	10.9	13.8	12.9	14.8	18.8	20.8	25.7	30.6	30.6	26.7
82.5°	0.0	1.0	3.0	6.9	10.9	14.8	16.8	19.8	22.7	25.7	24.7
85°	0.0	1.0	3.0	4.9	7.9	8.9	9.9	6.9	5.9	5.9	4.9
87.5°	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0
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: P527411

CATALOG NUMBER: GALN-SA2B-830-U-T3-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1037.1	1037.1	1037.1	1037.1	1037.1	1037.1	1037.1	1037.1	1037.1	1037.1	1037.1
2.5°	1037.1	1036.1	1036.1	1033.2	1039.1	1036.1	1038.1	1037.1	1024.3	1034.2	1027.2
5°	1048.0	1054.9	1044.1	1042.1	1034.2	1037.1	1037.1	1027.2	1036.1	1035.2	1033.2
7.5°	1075.7	1063.8	1052.0	1040.1	1038.1	1035.2	1024.3	1020.3	1027.2	1019.3	1031.2
10°	1087.6	1089.5	1071.7	1055.9	1041.1	1020.3	1005.5	996.6	985.7	997.6	1004.5
12.5°	1141.9	1122.2	1091.5	1066.8	1016.4	995.6	980.8	976.8	995.6	999.6	992.6
15°	1160.7	1157.8	1118.2	1062.8	1010.4	985.7	988.7	980.8	982.8	972.9	974.8
17.5°	1199.3	1165.7	1119.2	1050.0	1009.4	1003.5	985.7	954.1	936.3	928.4	935.3
20°	1241.8	1209.2	1141.9	1054.9	1018.3	1002.5	944.2	905.6	869.1	849.3	850.3
22.5°	1279.4	1238.8	1132.0	1056.9	1026.3	961.0	890.8	814.7	769.2	738.5	739.5
25°	1324.8	1267.5	1136.0	1060.9	1005.5	894.8	793.9	719.8	665.4	644.6	651.5
27.5°	1350.5	1285.3	1157.8	1069.8	951.1	800.8	692.1	622.9	591.2	581.3	580.4
30°	1427.7	1324.8	1184.4	1052.0	860.2	700.0	599.1	556.6	526.0	517.1	519.1
32.5°	1542.4	1397.0	1219.1	1005.5	767.2	610.0	538.8	507.2	478.5	461.7	459.7
35°	1638.3	1520.6	1255.6	933.3	659.5	540.8	496.3	456.8	413.3	394.5	389.5
37.5°	1821.2	1660.0	1247.7	824.6	556.6	489.4	450.8	402.4	364.8	339.1	336.2
40°	2064.4	1823.1	1209.2	692.1	480.5	443.9	402.4	355.9	309.5	287.7	285.7
42.5°	2360.0	2022.9	1139.0	557.6	404.4	398.4	360.9	307.5	266.0	250.1	251.1
45°	2600.2	2193.9	1067.8	447.9	348.0	353.9	321.3	270.9	242.2	229.4	229.4
47.5°	2813.8	2309.6	990.7	369.8	295.6	309.5	280.8	251.1	226.4	216.5	214.5
50°	3019.4	2427.2	913.5	299.6	252.1	266.0	263.0	239.3	219.5	207.6	208.6
52.5°	3148.0	2446.0	815.7	245.2	220.5	236.3	246.2	224.4	202.7	195.8	193.8
55°	2990.8	2203.8	632.8	201.7	186.9	207.6	226.4	201.7	184.9	173.0	172.0
56°	2779.2	1970.5	528.9	185.9	177.0	199.7	219.5	192.8	174.0	167.1	162.1
57.5°	2353.1	1612.5	390.5	165.1	164.1	185.9	208.6	183.9	162.1	156.2	156.2
60°	1467.2	907.6	236.3	138.4	142.4	165.1	187.9	164.1	144.3	144.3	147.3
62.5°	668.4	377.7	143.4	117.7	122.6	142.4	167.1	148.3	137.4	148.3	150.3
65°	227.4	163.1	103.8	93.9	96.9	117.7	143.4	150.3	149.3	156.2	160.2
67.5°	127.5	104.8	87.0	78.1	76.1	87.0	117.7	150.3	144.3	141.4	143.4
70°	107.8	89.0	77.1	69.2	66.2	70.2	91.0	113.7	101.8	98.9	96.9
72.5°	87.0	74.2	67.2	62.3	53.4	45.5	41.5	43.5	48.4	51.4	56.4
75°	61.3	56.4	56.4	50.4	38.6	28.7	22.7	18.8	12.9	8.9	9.9
77.5°	34.6	34.6	35.6	30.6	24.7	18.8	13.8	9.9	4.9	2.0	1.0
80°	23.7	25.7	27.7	24.7	20.8	16.8	11.9	6.9	3.0	0.0	0.0
82.5°	23.7	26.7	28.7	24.7	20.8	15.8	11.9	6.9	3.0	1.0	0.0
85°	4.9	5.9	6.9	7.9	11.9	11.9	8.9	5.9	3.0	1.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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)