

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: P450818

Luminaire Tested: **GALN-SA1C-827-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
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-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4187 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

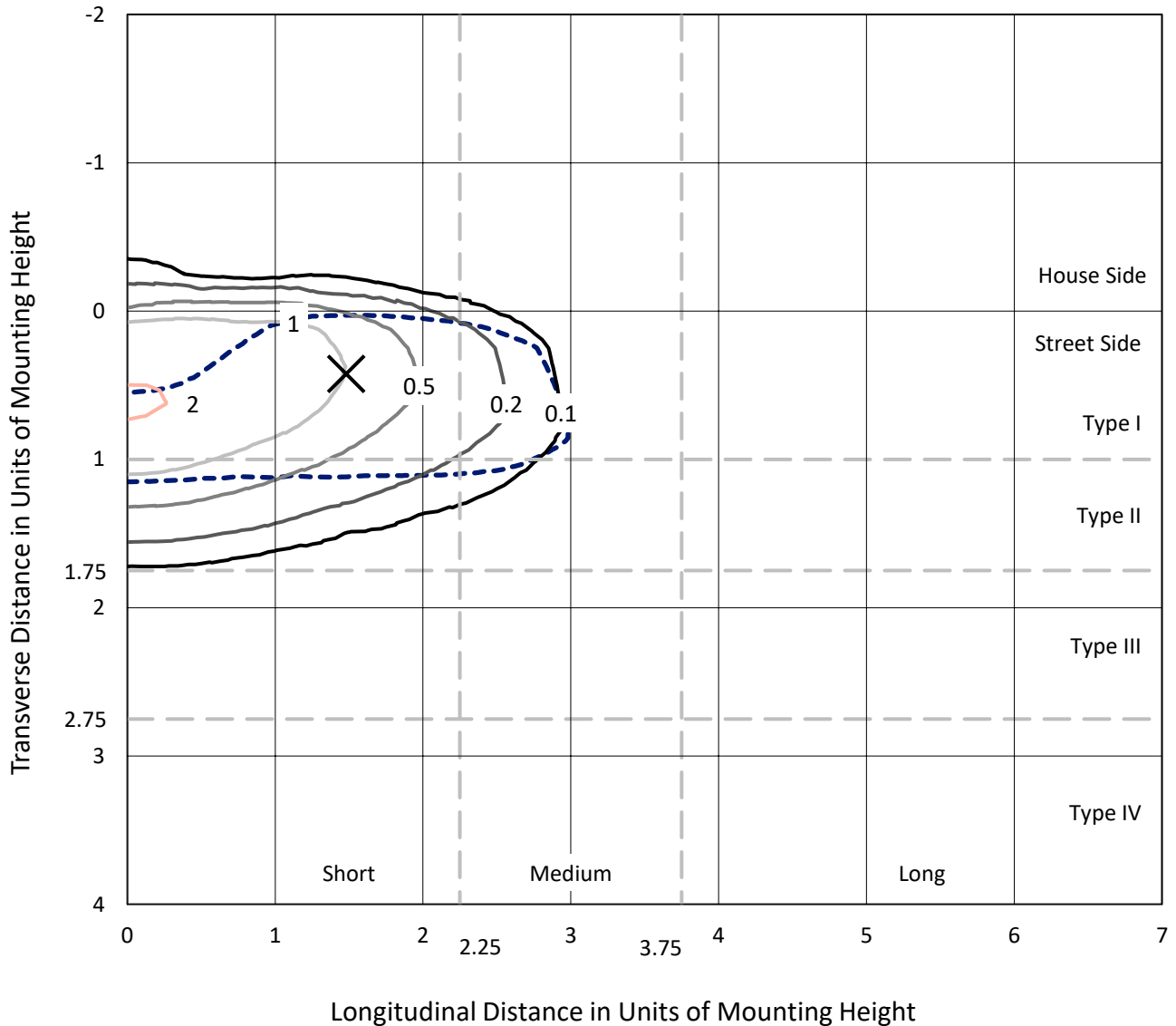
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450818
 CATALOG NUMBER: GALN-SA1C-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

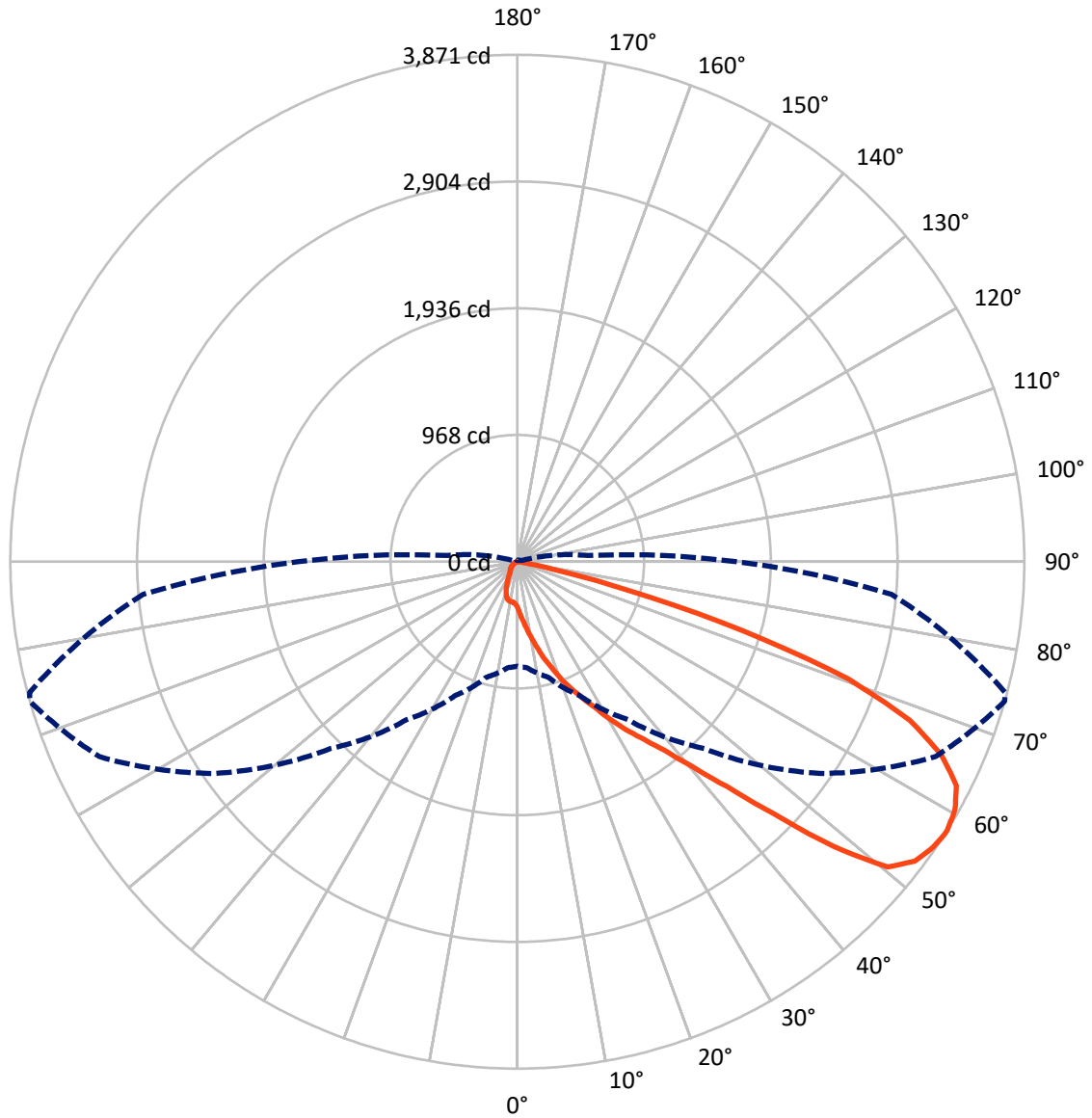
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

REPORT NUMBER: P450818
CATALOG NUMBER: GALN-SA1C-827-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P450818

CATALOG NUMBER: GALN-SA1C-827-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	241.5	0.0	241.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	3945.5	0.0	3945.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	4187.0	0.0	4187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	1.0
10°-20°	166.8	4.0
20°-30°	357.0	8.5
30°-40°	656.1	15.7
40°-50°	1005.8	24.0
50°-60°	1064.0	25.4
60°-70°	694.8	16.6
70°-80°	189.9	4.5
80°-90°	10.2	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°	4187.0	100.0
0°-180°	4187.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450818

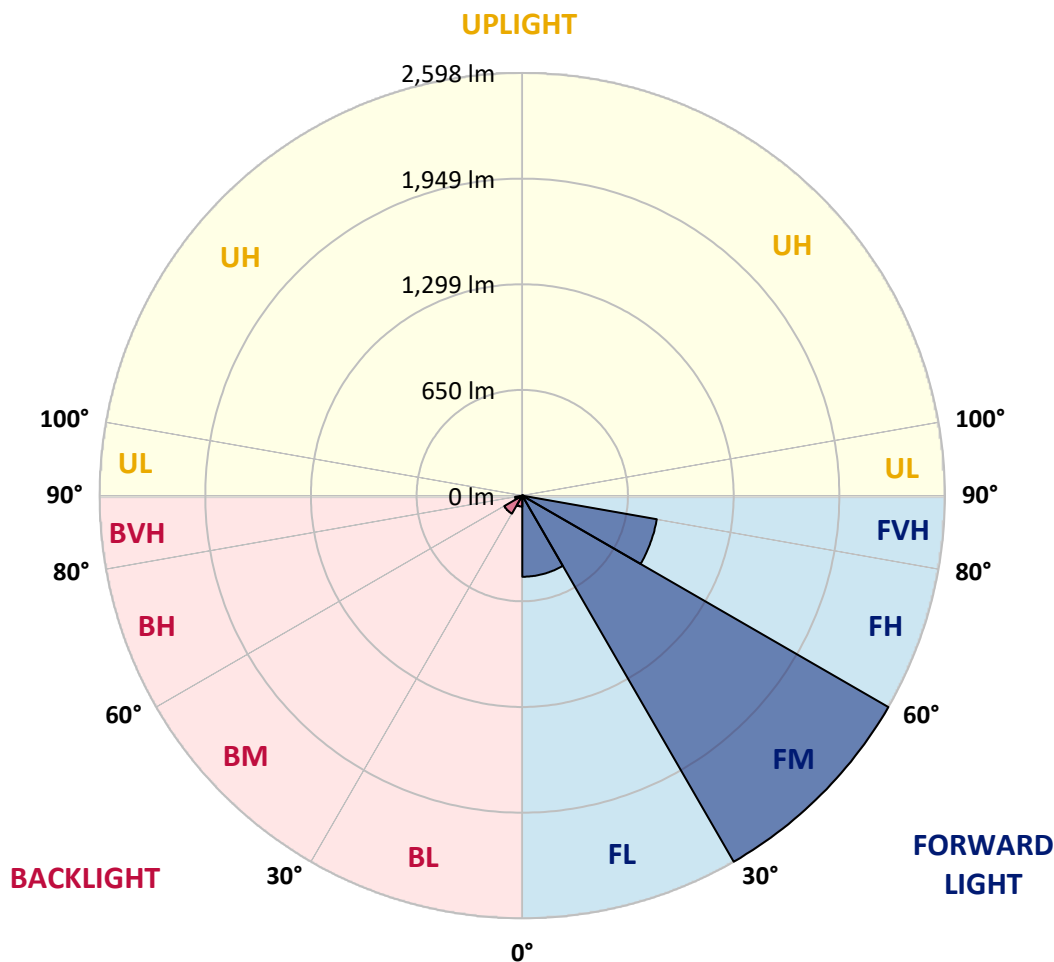
CATALOG NUMBER: GALN-SA1C-827-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	498.7	11.9			
FM	(30°-60°)	2598.1	62.1			
FH	(60°-80°)	839.4	20.0			G1/1800
FVH	(80°-90°)	9.4	0.2			G0/10
BL	(0°-30°)	67.5	1.6	B0/110		
BM	(30°-60°)	127.8	3.1	B0/220		
BH	(60°-80°)	45.3	1.1	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





REPORT NUMBER: P450818

CATALOG NUMBER: GALN-SA1C-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7
2.5°	513.1	508.5	499.2	496.1	482.5	461.4	442.9	418.0	398.4	396.3	372.6
5°	687.1	676.7	672.4	651.6	618.9	588.3	535.7	495.8	449.8	446.3	398.6
7.5°	854.8	840.4	836.0	816.4	778.2	729.9	661.7	589.1	516.3	509.7	433.6
10°	976.2	978.3	970.4	957.4	926.5	877.4	793.2	694.1	590.3	581.9	472.9
12.5°	1063.2	1063.0	1064.4	1064.1	1047.6	1010.3	921.9	807.7	671.8	655.3	518.0
15°	1119.9	1120.8	1125.1	1140.1	1141.9	1118.7	1045.0	916.4	766.4	745.8	566.9
17.5°	1177.1	1183.2	1190.1	1204.3	1217.0	1207.8	1155.7	1029.7	851.9	836.6	619.2
20°	1271.7	1280.1	1276.0	1284.7	1291.3	1292.2	1252.0	1134.4	955.7	930.0	679.1
22.5°	1422.9	1422.6	1412.2	1396.6	1383.5	1383.0	1346.5	1241.9	1049.9	1025.1	739.2
25°	1613.9	1614.8	1594.6	1550.1	1517.7	1478.1	1436.2	1336.1	1150.8	1120.2	802.5
27.5°	1833.1	1827.6	1796.9	1735.6	1671.5	1603.8	1543.4	1445.7	1257.8	1232.4	875.0
30°	2029.9	2027.9	1992.1	1917.2	1832.8	1764.8	1677.3	1583.0	1396.3	1365.0	956.3
32.5°	2213.2	2216.1	2166.4	2088.9	2007.4	1929.0	1836.5	1714.3	1532.1	1487.9	1044.7
35°	2356.3	2359.2	2307.7	2243.3	2159.4	2094.4	2006.2	1854.2	1666.3	1629.0	1146.5
37.5°	2432.6	2436.4	2406.6	2358.0	2305.7	2273.0	2190.9	2034.3	1829.3	1806.8	1266.8
40°	2447.1	2451.4	2438.4	2425.4	2422.5	2445.9	2421.9	2246.5	2055.4	2020.1	1446.0
42.5°	2403.7	2409.5	2415.3	2444.2	2503.2	2589.0	2672.6	2534.4	2346.5	2299.1	1665.1
45°	2289.8	2289.2	2312.1	2386.9	2519.1	2702.3	2934.5	2894.9	2743.1	2686.7	1974.7
47.5°	2095.0	2092.1	2141.5	2248.2	2454.0	2723.1	3148.1	3332.5	3249.3	3197.2	2307.4
50°	1798.1	1812.3	1890.0	2038.9	2292.4	2660.1	3214.0	3619.6	3664.7	3609.5	2576.3
52.5°	1450.3	1449.7	1571.7	1773.8	2053.1	2521.4	3168.0	3671.6	3799.7	3757.5	2708.7
55°	1073.4	1080.9	1207.8	1411.6	1742.3	2268.1	3018.0	3618.1	3851.1	3821.4	2796.0
57°	798.4	811.7	913.5	1129.2	1471.7	2017.5	2818.3	3522.5	3871.4	3855.2	2868.6
57.5°	745.3	745.8	845.0	1041.0	1392.5	1921.2	2761.0	3482.6	3870.8	3861.8	2880.4
60°	458.8	473.2	541.7	703.6	1019.3	1499.5	2377.4	3253.3	3840.7	3853.7	2931.0
62.5°	274.6	280.7	325.2	424.1	657.1	1094.5	1945.5	2959.9	3762.4	3802.0	2927.5
65°	176.6	178.1	198.3	256.7	410.8	739.8	1499.2	2572.2	3559.7	3632.6	2813.1
67.5°	136.4	138.8	146.9	168.5	238.2	460.8	1060.4	2158.6	3231.9	3325.9	2535.5
70°	121.1	122.3	125.2	132.1	157.5	260.2	659.7	1686.2	2680.1	2706.7	1984.3
72.5°	98.9	102.0	111.0	113.3	124.9	162.5	367.1	1131.8	1800.7	1807.3	1110.1
75°	76.6	77.2	90.5	97.1	105.2	111.9	163.9	570.6	864.9	818.7	427.8
77.5°	57.2	59.8	65.9	74.3	85.9	80.1	73.4	215.1	268.6	263.6	124.3
80°	36.7	38.2	46.0	55.8	66.8	52.3	41.3	63.0	59.0	60.7	29.8
82.5°	18.5	18.8	29.5	45.4	42.5	26.3	26.0	25.7	22.0	21.7	13.9
85°	2.0	4.3	19.1	26.0	19.1	8.7	12.1	11.9	11.6	11.9	8.1
87.5°	0.3	0.3	3.2	3.8	2.6	2.9	3.5	3.8	4.6	4.3	3.5
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: P450818
 CATALOG NUMBER: GALN-SA1C-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7
2.5°	361.1	349.5	328.1	307.6	292.3	282.4	269.7	265.1	258.4	257.6	254.4
5°	376.7	354.7	317.4	287.9	264.2	246.3	230.7	217.7	207.3	205.0	206.1
7.5°	398.9	366.3	314.2	274.0	241.1	210.5	185.6	170.3	159.3	155.2	155.8
10°	424.1	381.6	313.7	259.3	209.0	171.4	144.3	130.7	124.3	122.0	119.4
12.5°	453.9	399.2	312.2	236.5	173.7	136.7	117.4	109.3	103.2	101.5	101.5
15°	487.4	418.0	305.3	208.1	141.1	113.0	100.0	93.7	91.6	89.9	89.9
17.5°	522.4	436.5	290.8	173.2	117.1	96.8	88.7	85.0	82.1	80.1	80.1
20°	562.3	454.7	267.7	142.2	98.9	86.4	80.1	75.7	73.4	71.7	71.1
22.5°	600.1	469.5	238.2	116.8	86.1	77.8	72.0	67.4	65.0	64.2	64.2
25°	639.4	478.4	202.6	96.6	78.6	70.5	64.2	60.4	58.4	57.8	57.5
27.5°	677.6	483.6	171.4	84.4	71.7	63.9	57.8	54.9	52.9	52.3	52.6
30°	723.9	484.5	141.1	75.7	65.6	57.5	52.0	49.4	48.3	47.7	47.4
32.5°	770.7	483.3	118.5	70.5	59.8	52.0	47.4	45.4	44.5	43.7	43.7
35°	823.3	477.3	100.9	65.3	54.3	47.4	43.4	41.6	40.5	39.6	39.3
37.5°	888.6	474.1	90.8	59.6	49.4	43.1	39.3	37.6	36.7	35.6	35.3
40°	991.5	488.3	87.6	54.3	44.5	39.0	35.6	33.5	32.4	31.2	30.9
42.5°	1119.9	513.1	82.4	49.1	40.2	35.3	31.8	29.5	27.5	26.0	25.4
45°	1286.1	545.8	74.3	43.7	36.4	31.2	28.0	25.2	22.5	21.4	21.1
47.5°	1460.4	577.3	67.1	39.3	32.4	27.8	24.3	21.1	18.8	17.9	17.6
50°	1567.4	583.7	62.4	34.4	28.3	24.0	20.5	17.6	16.2	15.3	15.3
52.5°	1616.3	573.5	56.1	30.1	24.6	21.1	17.6	15.3	14.5	13.9	13.6
55°	1650.4	557.9	47.7	26.0	21.1	17.9	15.6	13.9	12.7	12.1	11.9
57°	1670.3	536.8	41.3	22.8	18.2	15.6	13.9	12.4	11.3	10.1	10.1
57.5°	1671.2	528.7	39.6	22.5	17.3	15.0	13.6	12.1	10.7	9.5	9.3
60°	1645.5	473.2	31.8	19.1	13.9	12.7	11.3	9.5	7.5	6.4	6.1
62.5°	1562.8	402.7	26.3	16.2	11.3	9.8	8.1	7.2	5.2	3.8	3.8
65°	1437.6	326.7	22.5	13.0	9.3	7.2	5.5	5.2	3.2	1.7	1.4
67.5°	1256.6	254.4	19.1	10.7	7.8	5.2	3.8	3.5	1.7	0.6	0.0
70°	957.4	173.4	15.9	8.7	5.8	3.8	2.6	2.0	1.2	0.3	0.0
72.5°	551.9	95.4	13.3	6.6	4.3	2.9	2.0	1.2	1.2	0.0	0.0
75°	197.2	41.0	10.1	4.9	3.5	2.3	1.4	0.6	0.9	0.3	0.0
77.5°	62.7	22.0	6.6	3.8	2.9	1.7	1.2	0.6	0.6	0.3	0.0
80°	18.5	11.6	4.0	3.2	2.0	1.4	0.9	0.3	0.6	0.3	0.0
82.5°	10.1	5.8	3.2	2.3	2.0	1.2	0.9	0.3	0.3	0.3	0.0
85°	5.2	3.5	2.6	2.3	2.0	1.2	0.9	0.3	0.0	0.3	0.3
87.5°	2.9	2.6	2.6	2.3	2.0	1.4	0.9	0.3	0.0	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)