

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: P450809

Luminaire Tested: **GALN-SA1C-827-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4302 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G2

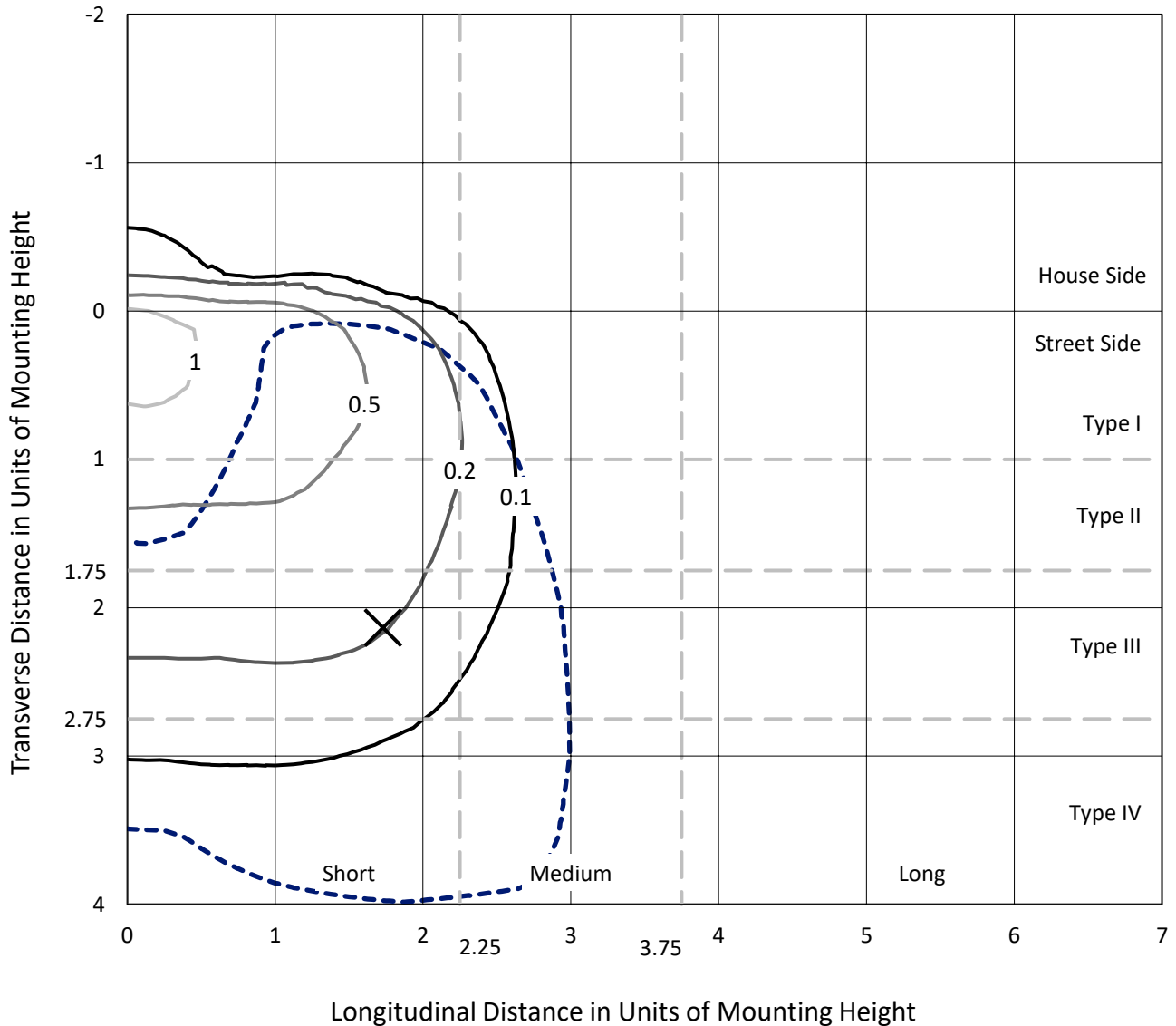
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450809
 CATALOG NUMBER: GALN-SA1C-827-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

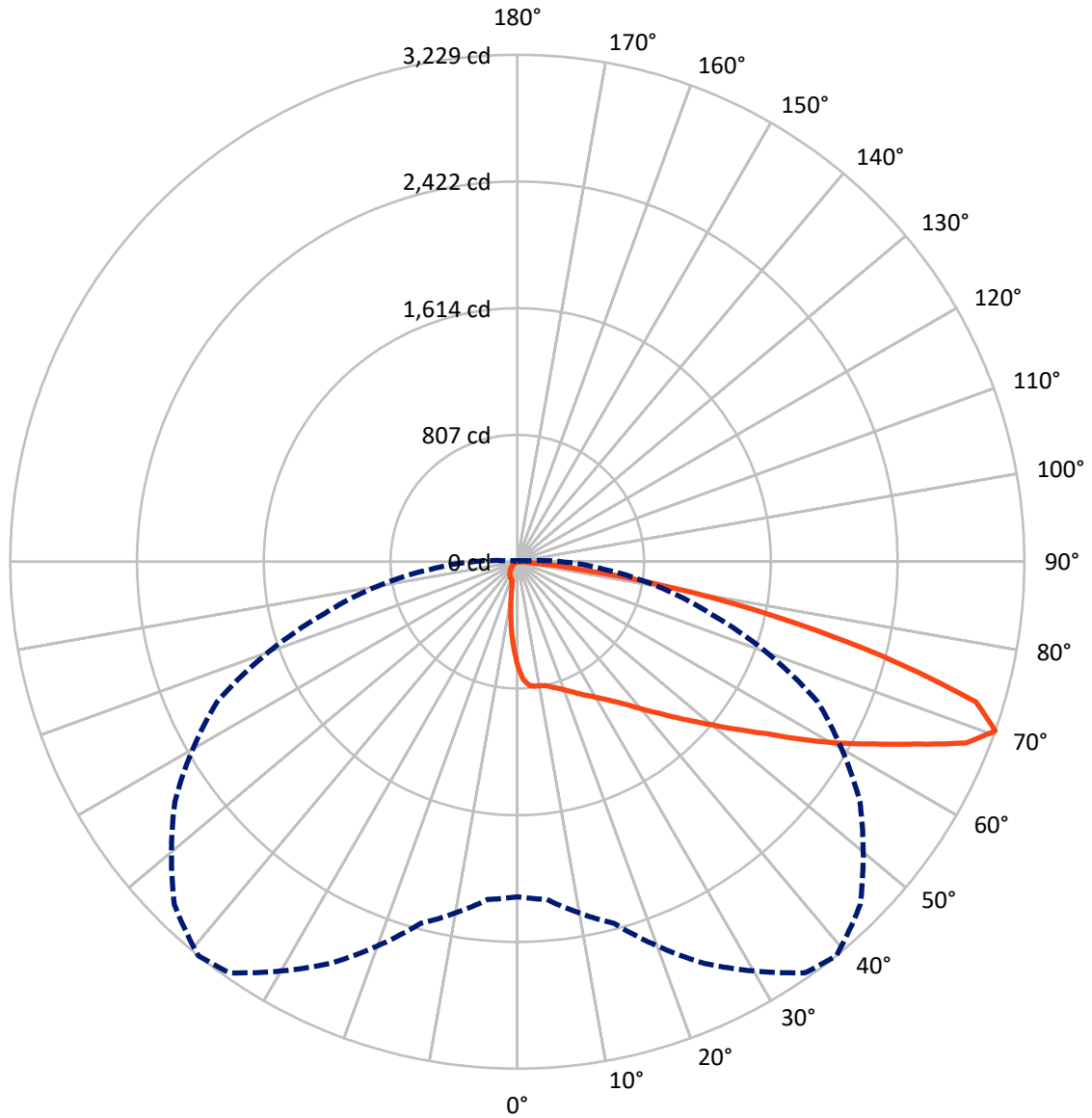
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P450809
CATALOG NUMBER: GALN-SA1C-827-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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CATALOG NUMBER: GALN-SA1C-827-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	280.5	0.0	280.5
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	4021.5	0.0	4021.5
	% Fixture	93.5	0.0	93.5
Total	Lumens	4302.0	0.0	4302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	1.3
10°-20°	148.8	3.5
20°-30°	249.3	5.8
30°-40°	386.6	9.0
40°-50°	612.6	14.2
50°-60°	898.0	20.9
60°-70°	1151.0	26.8
70°-80°	723.2	16.8
80°-90°	75.4	1.8
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°	4302.0	100.0
0°-180°	4302.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450809

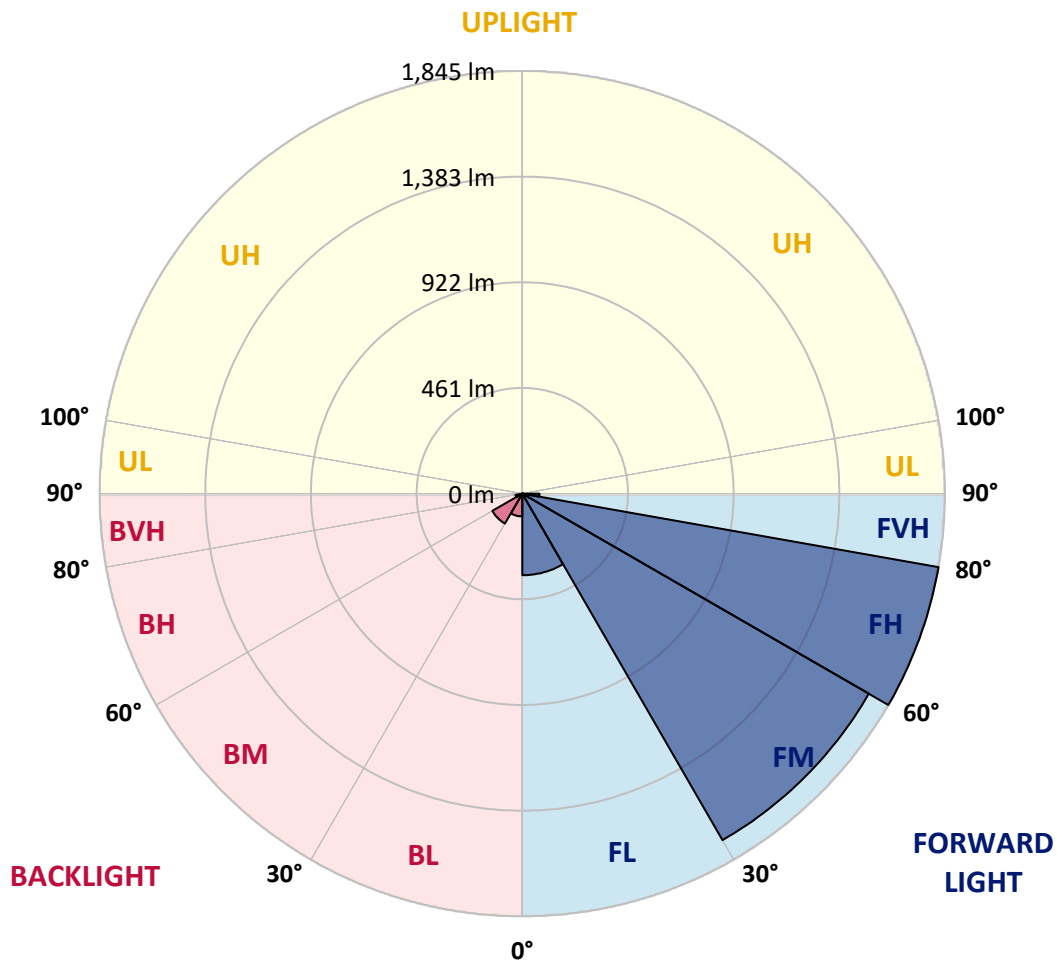
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	356.0	8.3			
FM (30°-60°)	1746.2	40.6			
FH (60°-80°)	1844.6	42.9			G2/5000
FVH (80°-90°)	74.8	1.7			G1/100
BL (0°-30°)	99.3	2.3	B0/110		
BM (30°-60°)	151.0	3.5	B0/220		
BH (60°-80°)	29.7	0.7	B0/110		G0/110
BVH (80°-90°)	0.6	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-G2

Type IV Short





REPORT NUMBER: P450809

CATALOG NUMBER: GALN-SA1C-827-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3
2.5°	775.6	773.0	769.5	765.5	753.9	751.9	745.0	730.2	712.6	698.1	678.2
5°	812.3	813.8	811.2	804.0	795.6	790.7	782.0	759.1	736.3	707.1	674.4
7.5°	820.7	823.6	820.4	813.5	805.4	800.2	793.3	773.6	747.0	713.8	668.9
10°	819.9	823.3	821.3	814.9	808.3	803.4	795.9	780.2	758.9	723.9	670.7
12.5°	818.4	823.0	822.7	819.6	814.1	810.3	805.7	791.8	771.9	738.6	680.2
15°	814.4	820.1	825.3	827.9	828.2	828.2	822.5	807.7	788.6	758.0	692.7
17.5°	816.1	822.7	835.7	843.3	848.5	847.9	841.8	825.9	804.8	777.9	705.7
20°	826.8	835.7	854.0	869.0	874.2	872.5	864.4	845.9	821.9	795.0	718.4
22.5°	853.1	861.2	884.0	901.7	905.4	900.8	889.2	864.1	842.4	813.5	733.7
25°	892.4	902.0	923.1	936.4	936.4	933.8	917.6	888.1	865.5	839.2	753.6
27.5°	940.1	948.2	969.0	980.9	973.9	966.4	950.2	914.7	893.0	871.6	777.6
30°	988.4	993.6	1015.6	1020.8	1013.5	1004.0	986.7	951.1	932.0	915.5	812.3
32.5°	1034.1	1045.3	1063.6	1062.4	1052.6	1047.9	1032.0	994.2	983.5	981.7	860.9
35°	1079.7	1088.4	1104.6	1108.6	1100.0	1099.1	1087.5	1059.5	1059.8	1071.1	936.6
37.5°	1119.1	1126.9	1145.9	1154.9	1156.6	1161.0	1156.3	1137.8	1164.2	1195.1	1037.0
40°	1152.0	1163.0	1187.3	1202.9	1220.8	1236.7	1237.6	1241.6	1294.5	1347.7	1167.9
42.5°	1177.7	1193.1	1228.3	1257.2	1298.3	1318.5	1334.7	1357.0	1446.0	1525.5	1322.3
45°	1211.3	1228.9	1272.8	1318.2	1382.4	1415.7	1438.2	1497.8	1624.1	1732.5	1480.7
47.5°	1266.8	1276.0	1320.8	1387.0	1471.5	1518.9	1562.8	1653.0	1815.2	1912.3	1612.5
50°	1338.2	1344.3	1378.1	1470.0	1579.3	1641.7	1721.8	1827.9	2013.5	2061.5	1687.1
52.5°	1417.1	1419.1	1444.6	1561.4	1700.1	1778.8	1868.4	1999.3	2175.1	2167.9	1736.5
55°	1508.7	1505.9	1527.5	1660.5	1843.2	1933.1	2037.5	2174.8	2315.3	2243.3	1764.9
57.5°	1613.7	1605.9	1627.0	1792.0	2026.5	2134.0	2240.1	2326.3	2424.0	2306.6	1778.5
60°	1723.5	1707.9	1733.1	1939.8	2242.4	2344.5	2432.7	2455.8	2538.5	2356.9	1755.0
62.5°	1811.1	1811.4	1858.2	2097.0	2464.5	2553.8	2600.6	2621.4	2637.0	2345.9	1631.9
65°	1947.9	1952.5	2027.4	2315.3	2721.5	2798.9	2831.0	2763.4	2641.4	2209.5	1446.9
67.5°	2088.9	2103.7	2240.7	2615.9	3018.4	3080.8	3039.5	2790.8	2523.4	1898.1	1097.1
70°	2134.9	2159.2	2385.0	2822.9	3196.4	3228.8	3088.9	2662.8	2109.5	1269.1	552.2
72.5°	1956.3	1995.6	2302.0	2747.5	3082.8	3054.8	2763.7	2233.2	1341.1	481.9	168.5
75°	1379.5	1396.9	1913.2	2279.2	2479.5	2400.0	2102.2	1439.7	551.6	135.3	57.8
77.5°	712.3	703.9	1137.8	1512.2	1768.3	1686.0	1376.6	745.3	209.0	56.4	35.8
80°	368.3	374.4	492.3	792.4	1079.5	993.3	734.0	345.5	111.3	31.2	27.5
82.5°	206.4	193.7	283.0	346.0	504.7	395.8	281.6	244.6	48.6	18.8	26.0
85°	37.6	39.3	155.2	187.0	175.2	111.3	90.8	163.3	14.2	10.4	18.2
87.5°	0.6	0.6	30.1	53.8	34.1	15.6	28.6	23.4	2.9	4.0	3.2
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°	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3
2.5°	668.1	657.1	636.6	616.3	590.6	569.5	555.3	540.6	525.6	526.7	530.2
5°	656.5	637.4	597.0	554.2	513.1	476.1	439.7	407.0	393.7	381.6	382.2
7.5°	645.0	618.1	558.8	491.7	429.6	366.6	320.9	283.3	263.4	248.3	244.0
10°	639.7	604.2	523.8	431.6	343.4	274.6	215.9	185.3	161.6	154.1	156.1
12.5°	642.1	597.3	492.3	377.3	272.3	191.4	150.3	134.7	129.5	128.6	128.1
15°	646.4	592.3	461.4	317.1	200.0	142.2	126.3	123.4	122.9	122.3	122.6
17.5°	652.2	588.0	428.4	260.8	153.5	124.3	119.7	118.2	117.9	117.9	117.9
20°	658.0	583.1	391.7	210.5	128.1	117.4	114.5	113.6	113.3	113.3	113.0
22.5°	664.6	578.8	354.4	165.4	117.9	112.5	109.9	109.3	109.0	108.7	108.7
25°	674.2	573.3	314.8	135.3	111.6	107.8	105.2	104.6	104.4	103.2	103.5
27.5°	686.9	569.2	274.1	116.8	105.8	102.0	100.3	99.4	98.9	98.0	98.3
30°	704.2	565.7	230.7	106.7	99.2	96.0	94.2	93.7	93.1	92.2	92.2
32.5°	734.3	567.2	185.0	98.6	93.1	89.3	87.6	87.0	86.4	85.6	85.6
35°	779.4	575.6	148.0	91.6	85.9	82.1	80.4	80.4	79.5	78.3	78.1
37.5°	853.1	597.0	118.8	85.0	78.9	75.5	73.4	72.8	72.0	70.2	70.0
40°	940.1	630.2	100.0	78.3	72.6	69.1	67.4	65.6	63.3	61.6	61.3
42.5°	1049.4	664.3	86.7	71.7	66.5	63.3	61.3	58.4	54.9	52.6	52.3
45°	1163.3	695.5	77.8	65.6	60.7	58.1	55.8	51.2	46.8	43.9	43.7
47.5°	1248.3	701.3	70.5	59.8	55.8	53.2	50.0	44.2	38.4	35.8	35.0
50°	1288.5	673.3	63.0	54.1	50.9	48.0	43.9	37.3	30.9	27.8	27.2
52.5°	1302.6	624.7	57.0	48.9	46.0	42.5	37.6	30.1	24.3	21.1	20.8
55°	1296.8	563.4	51.5	43.9	40.2	36.1	31.2	24.0	17.9	15.3	14.7
57.5°	1266.5	485.4	46.0	39.0	34.4	30.4	24.9	17.9	12.1	9.8	9.5
60°	1184.7	379.0	40.5	33.5	29.2	24.9	19.7	12.7	7.5	5.5	5.5
62.5°	1046.5	281.3	35.3	28.0	24.6	19.9	13.9	8.1	4.0	2.9	2.6
65°	874.5	207.6	29.5	23.7	20.5	15.6	9.8	4.9	2.0	0.9	0.6
67.5°	610.3	128.1	24.6	19.4	16.8	11.3	6.1	2.0	0.9	0.0	0.0
70°	277.2	61.0	18.8	14.7	12.7	8.1	3.2	1.2	0.6	0.0	0.0
72.5°	86.1	32.1	13.3	10.7	8.7	5.2	1.7	0.9	0.6	0.0	0.0
75°	39.9	20.5	8.4	5.8	4.9	2.6	1.2	0.6	0.3	0.0	0.0
77.5°	29.8	15.9	4.9	3.2	2.6	1.7	0.9	0.6	0.3	0.0	0.0
80°	26.0	8.1	2.9	2.0	1.4	1.2	0.6	0.3	0.0	0.0	0.0
82.5°	23.4	4.0	1.7	1.2	0.9	0.6	0.3	0.3	0.0	0.0	0.0
85°	12.7	2.3	1.2	0.9	0.6	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	2.3	1.2	0.9	0.6	0.6	0.3	0.3	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)