

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: P450677

Luminaire Tested: **GALN-SA1C-727-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4658 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

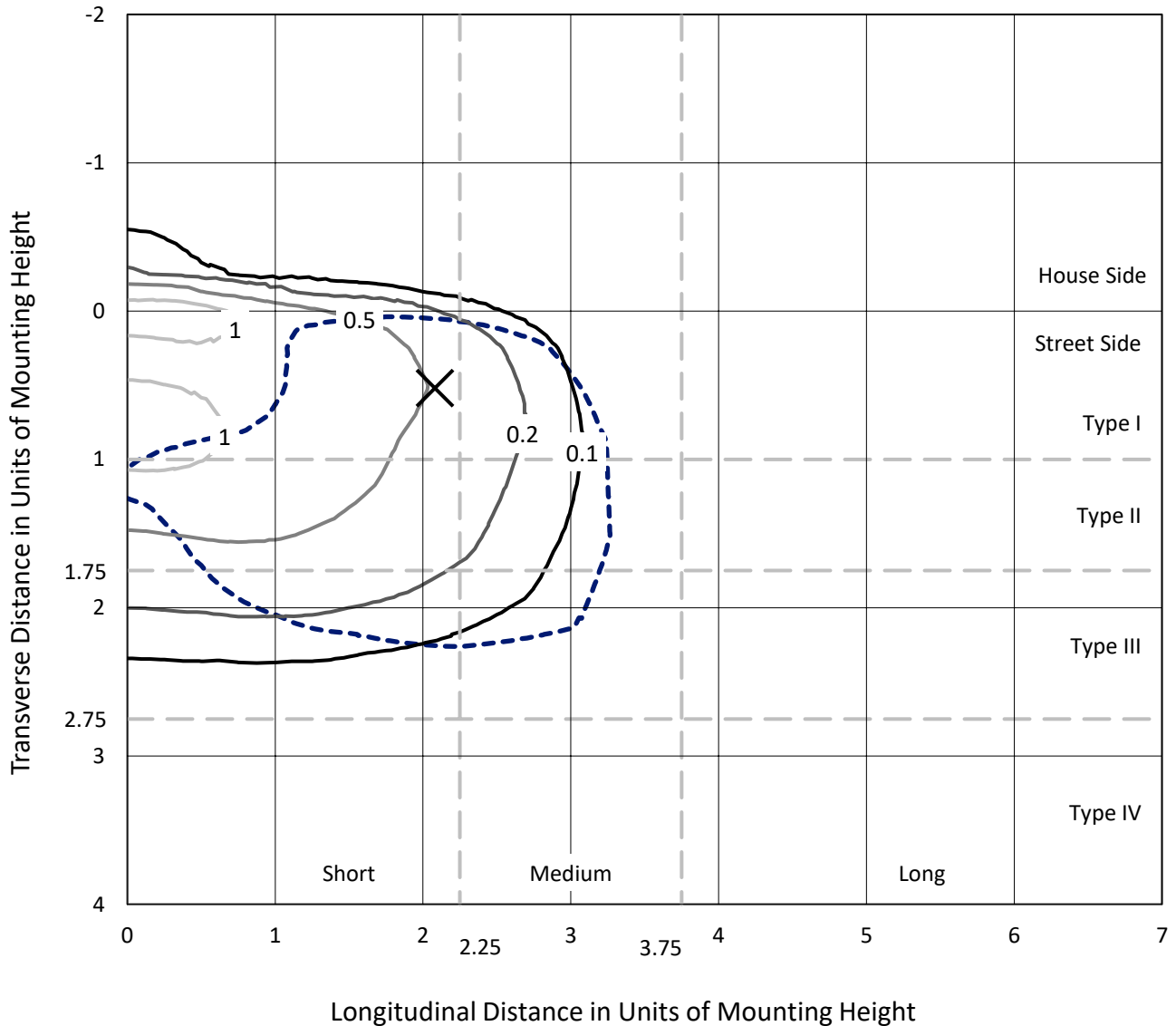
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450677
 CATALOG NUMBER: GALN-SA1C-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

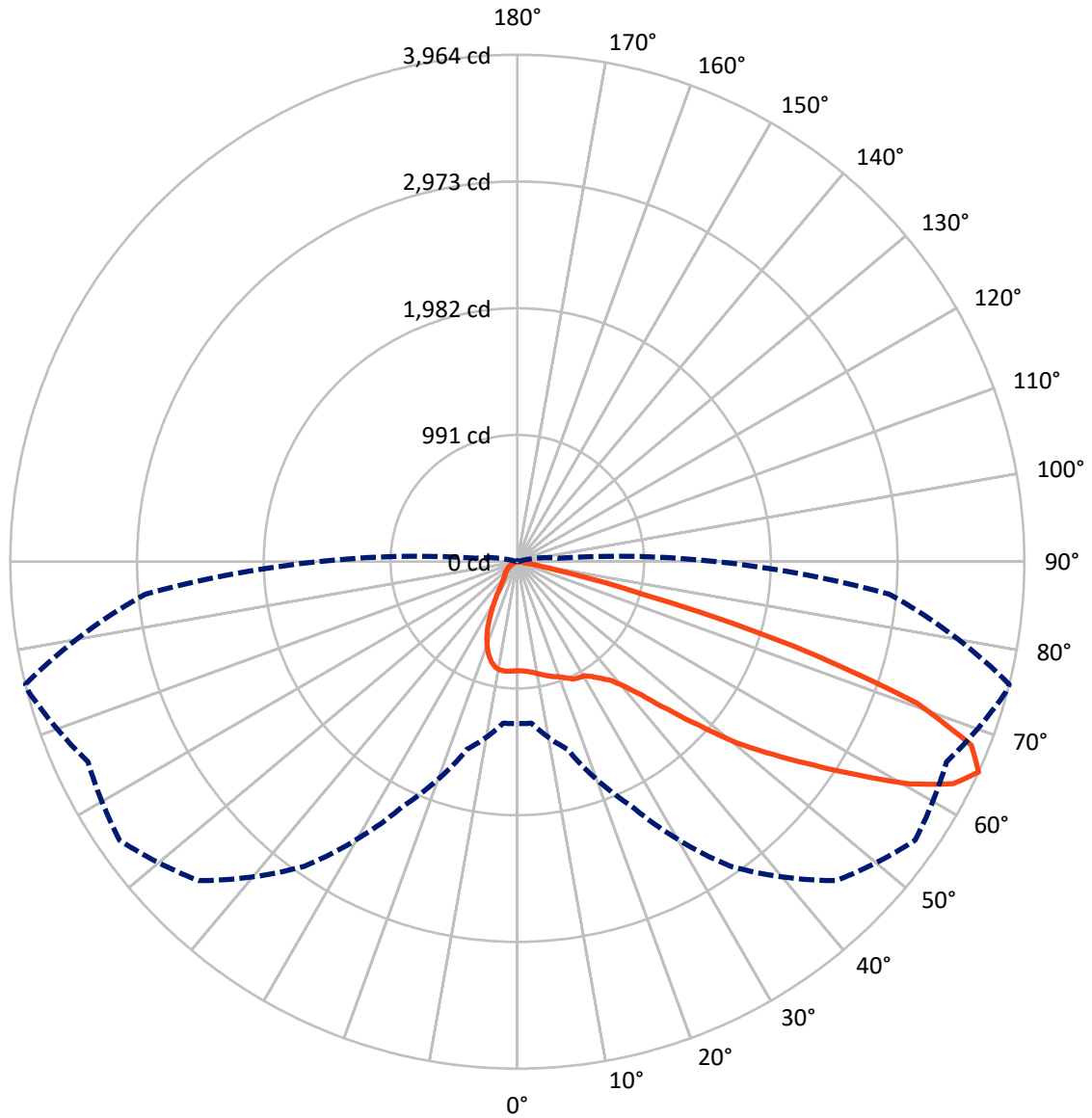
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

REPORT NUMBER: P450677
CATALOG NUMBER: GALN-SA1C-727-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P450677

CATALOG NUMBER: GALN-SA1C-727-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	336.4	0.0	336.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4321.6	0.0	4321.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	4658.0	0.0	4658.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.5
10°-20°	156.3	3.4
20°-30°	251.8	5.4
30°-40°	437.9	9.4
40°-50°	723.6	15.5
50°-60°	1117.8	24.0
60°-70°	1365.0	29.3
70°-80°	518.1	11.1
80°-90°	17.3	0.4
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°	4658.0	100.0
0°-180°	4658.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450677

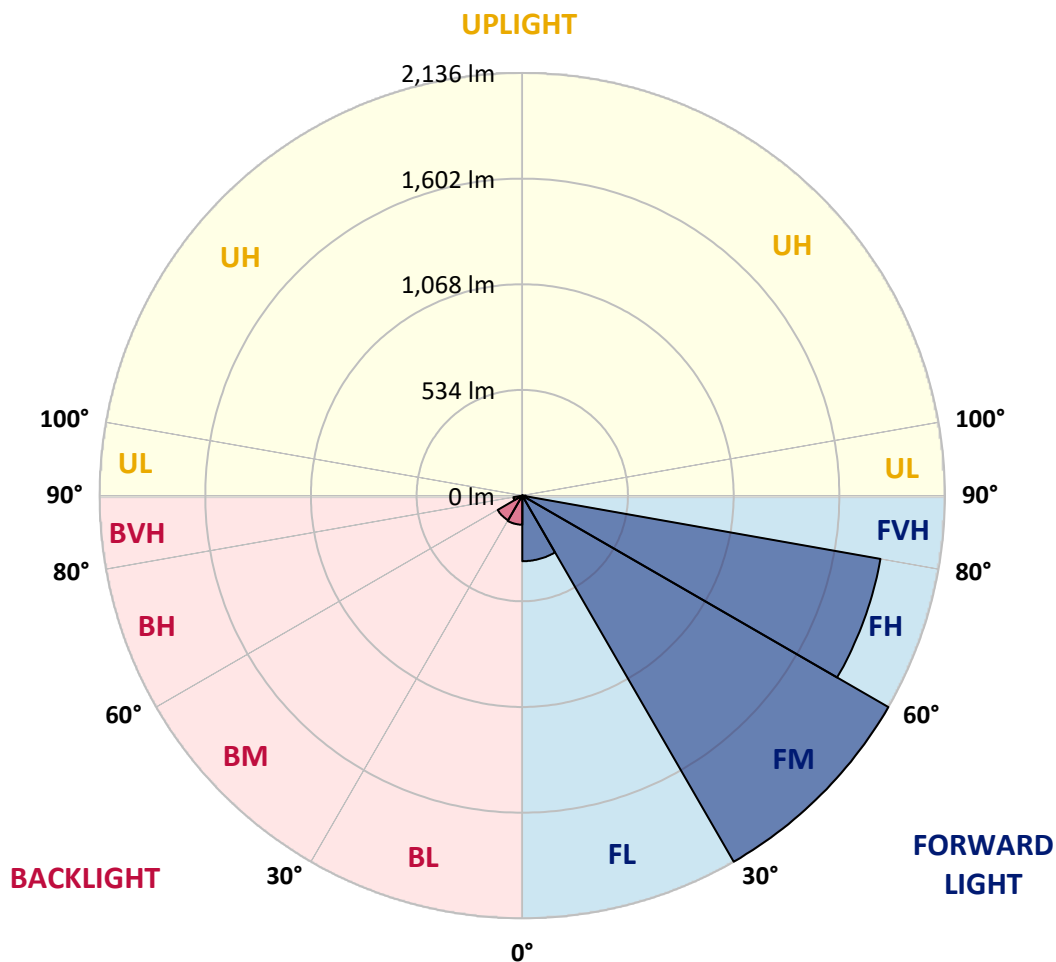
CATALOG NUMBER: GALN-SA1C-727-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.4	7.1			
FM (30°-60°)	2135.8	45.9			
FH (60°-80°)	1837.4	39.4			G2/5000
FVH (80°-90°)	17.1	0.4			G1/100
BL (0°-30°)	147.0	3.2	B1/500		
BM (30°-60°)	143.6	3.1	B0/220		
BH (60°-80°)	45.6	1.0	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P450677

CATALOG NUMBER: GALN-SA1C-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	852.1	852.1	852.1	852.1	852.1	852.1	852.1	852.1	852.1	852.1	852.1
2.5°	814.3	814.6	816.6	821.5	829.1	835.3	840.6	849.1	855.1	855.7	857.7
5°	758.0	754.1	758.0	770.9	782.4	799.8	821.2	842.6	861.6	862.9	872.2
7.5°	694.9	698.2	704.4	717.6	739.3	765.9	796.8	835.0	871.2	874.5	892.5
10°	630.8	638.0	648.2	668.3	698.5	733.0	775.1	829.7	886.3	890.9	922.1
12.5°	571.6	574.9	587.4	614.3	651.8	700.5	758.7	826.8	903.1	908.7	953.7
15°	526.2	530.5	541.3	565.7	607.4	669.9	745.2	825.8	919.5	927.4	985.3
17.5°	517.6	520.3	524.9	541.3	577.8	645.6	733.0	825.5	935.3	944.8	1014.6
20°	552.8	550.5	545.9	544.3	564.3	626.8	724.2	828.1	950.4	961.3	1045.5
22.5°	641.0	643.9	617.0	585.1	578.5	623.9	722.9	840.6	974.4	987.3	1080.0
25°	828.1	805.4	763.3	687.0	629.5	642.0	737.7	870.2	1002.4	1016.5	1111.2
27.5°	1034.9	1028.0	962.6	837.0	729.8	680.1	764.0	892.9	1011.6	1026.1	1129.0
30°	1238.2	1246.4	1171.4	1032.6	875.4	750.8	788.6	901.4	1019.8	1034.9	1151.7
32.5°	1426.6	1436.5	1370.7	1233.3	1047.1	873.1	831.0	934.6	1054.4	1069.8	1189.5
35°	1574.9	1576.3	1526.6	1417.1	1234.6	1021.8	922.8	992.9	1101.0	1119.1	1229.6
37.5°	1711.1	1709.1	1650.9	1556.5	1390.8	1169.5	1038.2	1059.9	1154.3	1173.1	1287.5
40°	1812.1	1813.4	1794.6	1705.8	1536.5	1305.9	1129.7	1122.8	1243.8	1273.0	1371.7
42.5°	1879.5	1891.6	1900.9	1855.8	1719.7	1474.0	1270.1	1257.3	1399.0	1423.3	1490.8
45°	1934.1	1955.8	2001.8	1999.5	1895.6	1680.2	1462.8	1436.5	1619.0	1645.0	1642.4
47.5°	1973.9	1995.9	2072.2	2118.2	2061.0	1880.1	1705.2	1682.5	1881.8	1910.1	1809.8
50°	1994.3	2020.6	2117.9	2207.0	2190.3	2072.9	1981.4	1982.7	2199.1	2226.4	2003.8
52.5°	1946.6	1980.8	2142.2	2302.7	2335.3	2257.3	2240.2	2283.7	2481.6	2505.0	2179.1
55°	1794.3	1837.4	2109.0	2384.3	2503.3	2475.1	2534.3	2600.4	2790.4	2805.6	2359.0
57.5°	1697.9	1743.7	2011.0	2453.7	2705.3	2748.7	2842.4	2890.7	3109.1	3147.6	2565.5
60°	1616.7	1652.6	1930.5	2468.5	2910.5	3083.5	3174.6	3224.6	3502.4	3527.4	2792.7
62.5°	1481.6	1522.7	1794.3	2365.2	3013.7	3351.5	3540.3	3517.9	3806.6	3824.1	2932.2
65°	1264.2	1267.8	1518.1	2105.7	2907.2	3525.5	3797.1	3703.4	3952.0	3963.8	2921.3
67.5°	943.5	978.4	1167.8	1655.2	2455.7	3376.8	3880.3	3708.3	3860.3	3827.4	2689.5
70°	607.7	634.4	791.6	1147.7	1770.6	2818.1	3604.4	3454.1	3388.0	3315.0	2201.4
72.5°	280.5	314.7	470.3	655.8	1050.1	2007.4	2925.9	2806.2	2438.6	2258.3	1399.3
75°	122.3	130.9	232.2	346.0	492.3	1061.6	1929.1	1742.0	1101.4	1006.0	560.1
77.5°	74.7	80.2	121.7	185.5	193.4	404.5	1039.2	760.0	340.4	300.3	151.9
80°	50.6	56.9	88.5	97.0	66.1	112.8	390.0	202.9	68.7	65.8	32.6
82.5°	24.7	31.2	65.4	54.3	28.6	36.2	113.5	43.4	20.1	18.7	11.5
85°	3.6	6.2	36.8	35.5	12.8	8.6	20.1	10.9	6.9	6.6	5.3
87.5°	0.0	0.0	12.5	5.6	1.3	1.3	2.3	2.3	2.6	2.3	2.6
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: P450677
 CATALOG NUMBER: GALN-SA1C-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	852.1	852.1	852.1	852.1	852.1	852.1	852.1	852.1	852.1	852.1	852.1
2.5°	858.7	860.3	854.1	845.2	835.7	826.1	812.6	800.5	793.2	797.5	787.0
5°	874.1	872.8	856.4	829.4	793.6	750.5	707.7	671.2	659.4	641.6	639.6
7.5°	895.5	891.9	857.0	795.2	714.3	633.4	554.5	502.2	472.3	446.9	447.6
10°	925.4	914.9	849.5	735.0	601.8	479.8	379.2	310.1	280.2	270.7	263.1
12.5°	956.3	936.0	828.4	653.8	468.6	327.9	230.5	188.4	170.0	164.1	163.4
15°	984.0	951.7	791.6	556.1	340.7	209.5	157.2	143.4	141.1	141.4	141.1
17.5°	1011.3	964.2	740.6	452.5	231.5	150.3	135.2	131.9	132.9	134.2	133.8
20°	1034.0	966.9	675.5	345.3	163.8	131.9	126.9	126.3	127.3	128.3	128.3
22.5°	1058.6	968.8	598.2	239.1	133.8	122.7	120.0	120.0	121.4	122.7	123.0
25°	1077.0	958.0	505.8	171.7	118.1	113.8	112.5	112.8	114.1	114.8	114.4
27.5°	1080.0	927.4	407.8	131.5	107.2	102.9	101.6	102.9	101.3	102.3	101.6
30°	1082.6	888.6	308.5	110.8	97.3	90.8	88.8	86.8	85.5	83.9	83.5
32.5°	1090.9	842.9	225.3	99.6	88.1	80.9	76.3	70.7	66.4	65.1	64.8
35°	1094.5	788.0	165.4	90.8	79.9	72.0	63.8	55.9	49.7	47.4	49.0
37.5°	1108.3	734.7	128.3	84.2	72.7	62.8	52.3	42.4	36.5	35.2	35.8
40°	1136.6	676.8	107.5	78.6	66.4	54.3	41.4	31.9	28.0	26.6	26.3
42.5°	1182.0	619.3	95.7	73.3	60.2	45.7	32.6	25.0	21.7	20.7	20.7
45°	1237.2	564.0	87.5	67.7	53.6	36.8	25.7	20.1	18.1	17.4	17.4
47.5°	1309.9	515.7	80.6	62.2	46.4	29.3	20.7	17.4	16.1	16.4	16.8
50°	1383.5	479.8	73.0	55.9	38.1	24.0	17.8	15.5	15.1	15.5	15.5
52.5°	1439.1	458.8	62.8	47.4	29.9	20.1	15.8	14.5	14.1	13.5	13.5
55°	1514.1	454.2	50.0	38.5	23.7	16.8	14.1	13.2	12.2	11.5	11.2
57.5°	1610.5	459.4	38.5	29.9	18.4	13.8	12.5	10.9	9.5	8.2	8.2
60°	1670.3	447.6	29.9	23.0	13.5	11.2	9.5	7.9	6.2	5.3	4.9
62.5°	1651.2	397.6	23.7	17.1	9.5	8.2	6.2	5.3	3.6	2.6	2.3
65°	1552.9	321.0	19.1	11.8	6.9	4.9	3.3	3.3	1.6	0.3	0.0
67.5°	1359.2	237.8	15.1	7.9	3.9	2.3	1.6	1.0	0.0	0.0	0.0
70°	1106.3	171.7	11.8	4.9	2.3	1.6	0.7	0.3	0.0	0.0	0.0
72.5°	702.5	98.3	9.2	3.0	1.6	0.7	0.0	0.0	0.0	0.0	0.0
75°	271.6	38.5	6.2	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	77.0	18.1	3.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	20.1	7.9	2.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.5	3.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.6	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	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)