

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: P450443

Luminaire Tested: **GALN-SA1B-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3535 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

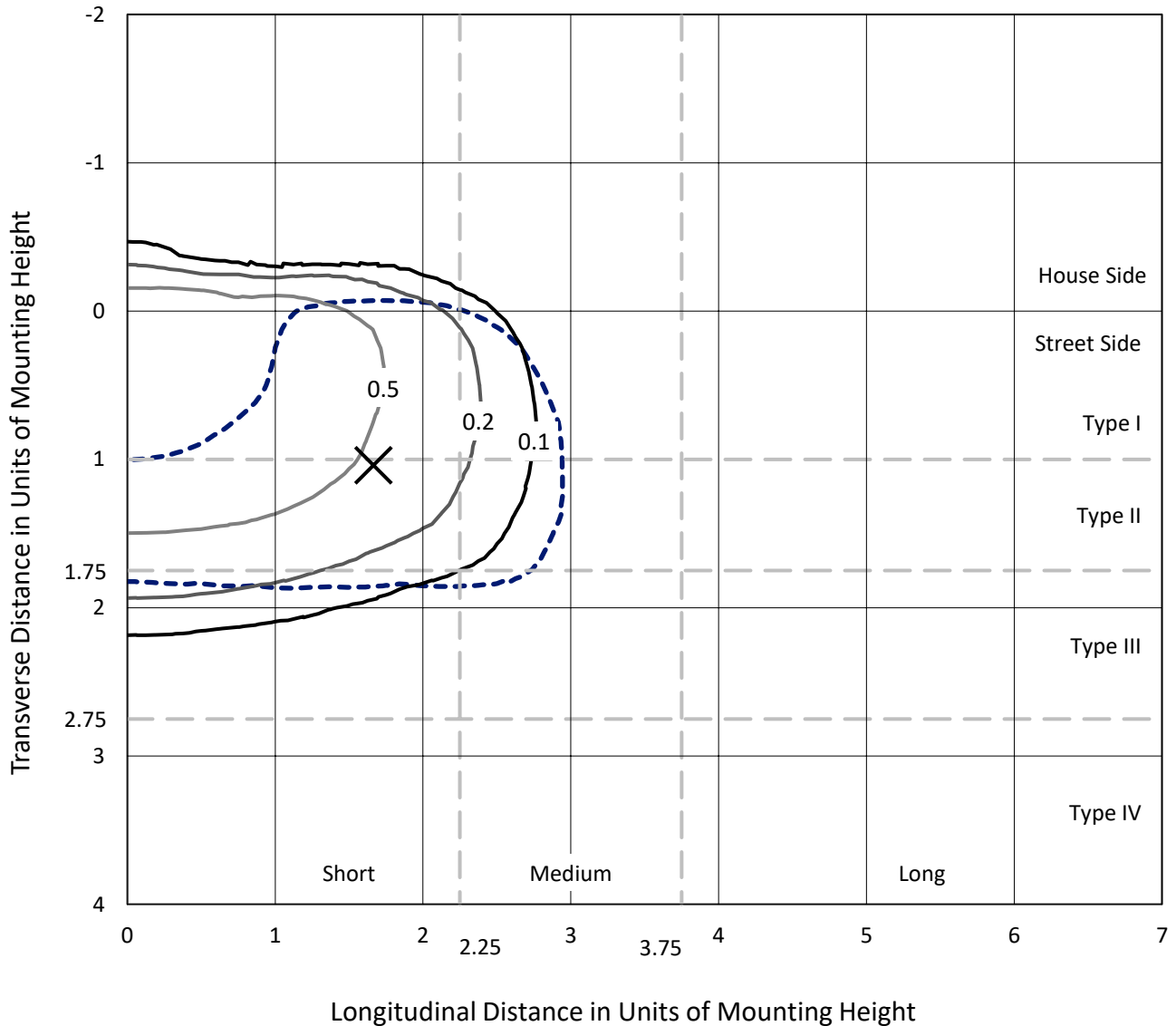
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450443
 CATALOG NUMBER: GALN-SA1B-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

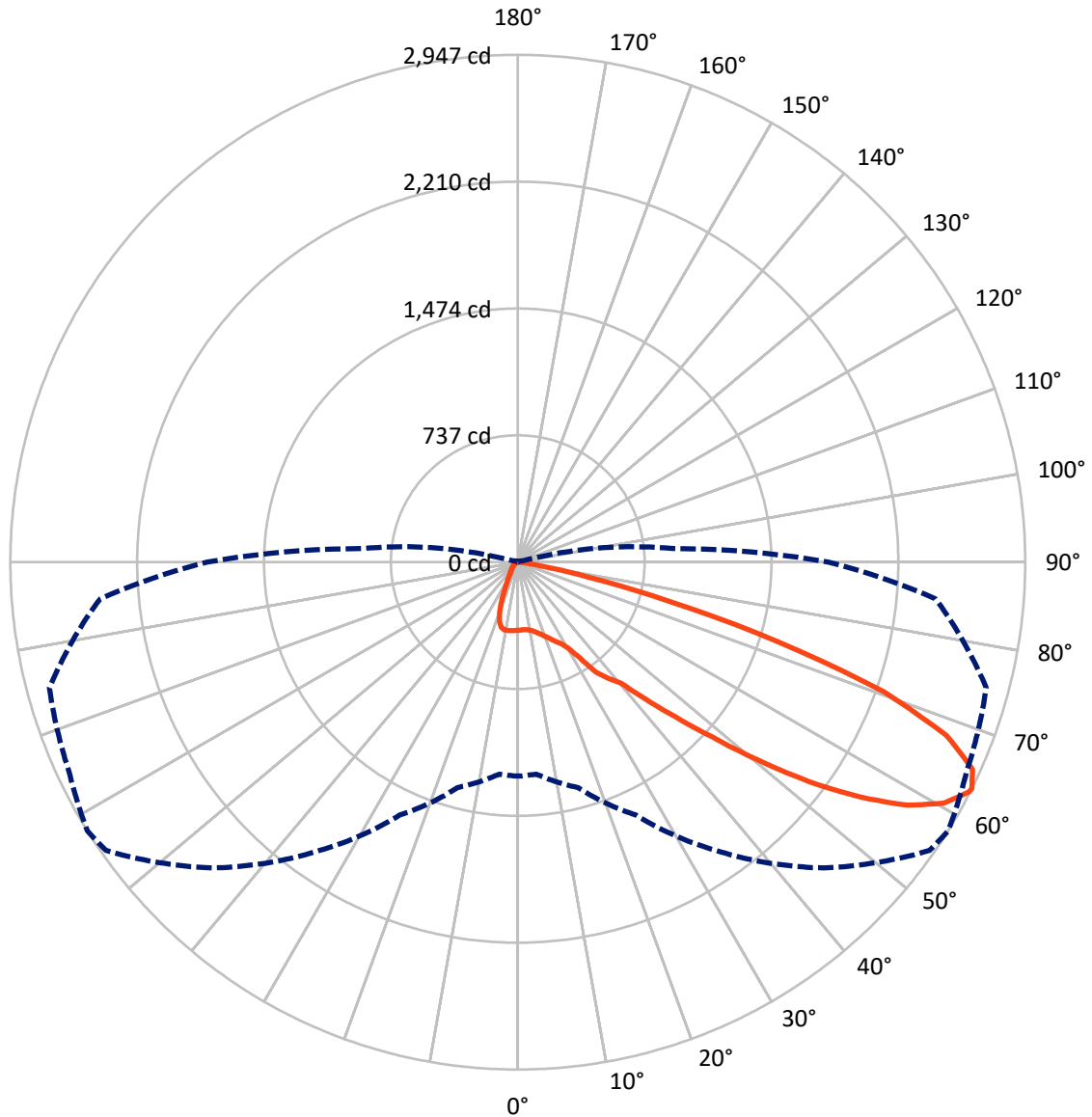
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

REPORT NUMBER: P450443
CATALOG NUMBER: GALN-SA1B-727-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P450443

CATALOG NUMBER: GALN-SA1B-727-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	366.0	0.0	366.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3169.0	0.0	3169.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	3535.0	0.0	3535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.0	1.0
10°-20°	100.9	2.9
20°-30°	175.1	5.0
30°-40°	321.8	9.1
40°-50°	605.8	17.1
50°-60°	1036.2	29.3
60°-70°	992.2	28.1
70°-80°	253.0	7.2
80°-90°	12.9	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°	3535.0	100.0
0°-180°	3535.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450443

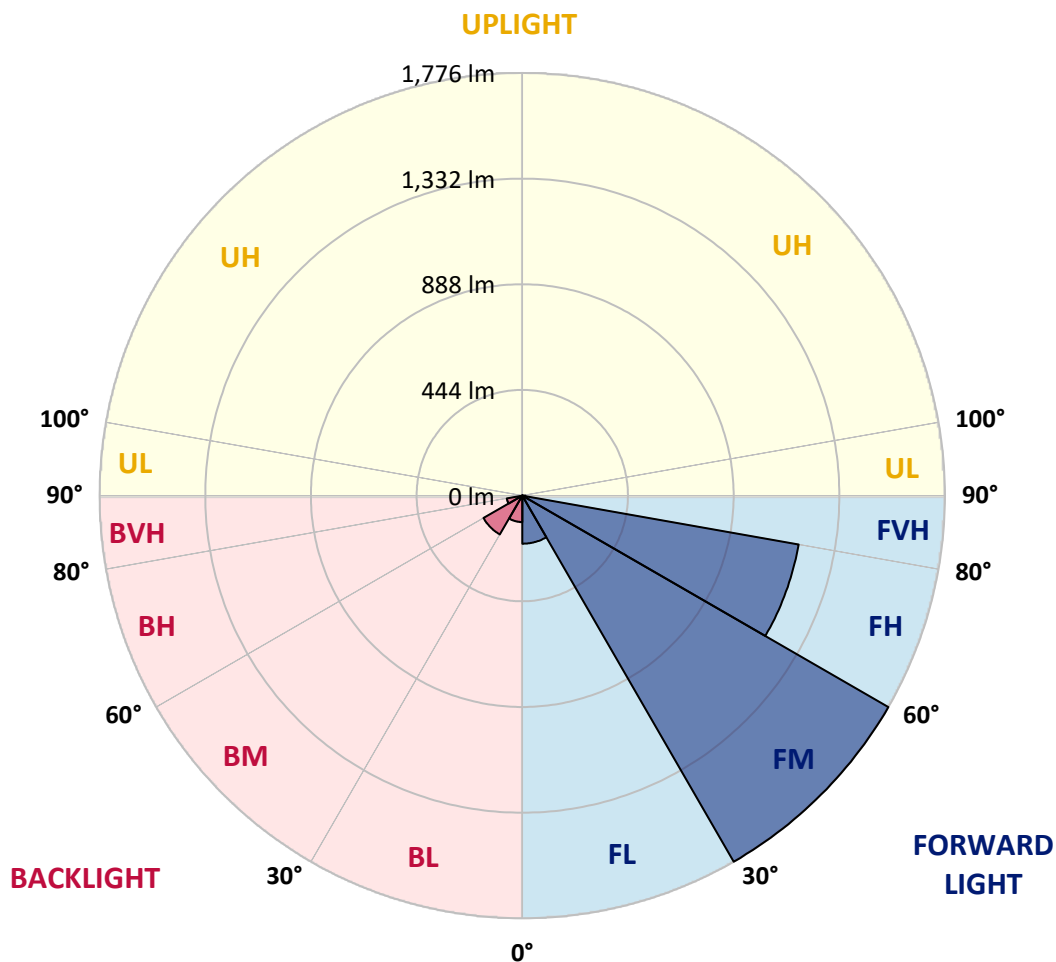
CATALOG NUMBER: GALN-SA1B-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	202.1	5.7			
FM (30°-60°)	1775.6	50.2			
FH (60°-80°)	1178.9	33.3			G1/1800
FVH (80°-90°)	12.4	0.4			G1/100
BL (0°-30°)	111.0	3.1	B1/500		
BM (30°-60°)	188.3	5.3	B0/220		
BH (60°-80°)	66.3	1.9	B0/110		G0/110
BVH (80°-90°)	0.5	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-G1

Type III Short





REPORT NUMBER: P450443
 CATALOG NUMBER: GALN-SA1B-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	395.8	395.8	395.8	395.8	395.8	395.8	395.8	395.8	395.8	395.8	395.8
2.5°	385.9	387.2	388.6	389.1	391.0	392.8	394.2	393.9	396.0	397.1	397.1
5°	370.5	370.5	373.9	377.1	382.4	387.8	392.8	393.9	397.9	401.6	402.9
7.5°	357.4	358.2	360.9	366.7	373.9	383.2	393.4	395.8	402.7	410.9	414.4
10°	351.3	351.8	355.3	361.4	370.5	383.2	397.4	401.9	412.5	425.6	430.4
12.5°	350.0	350.8	354.2	361.2	371.5	387.0	406.1	410.9	426.4	443.1	450.3
15°	352.4	352.9	356.4	363.8	375.3	393.6	417.8	424.5	442.9	462.3	471.6
17.5°	360.9	360.4	362.8	368.9	381.7	401.9	432.0	439.9	461.5	488.1	494.2
20°	397.1	393.6	391.5	386.2	391.2	413.6	449.0	460.7	487.3	514.5	518.7
22.5°	475.1	467.3	452.2	431.4	415.5	429.6	469.5	483.1	517.4	544.0	544.0
25°	574.3	564.5	549.3	504.1	465.0	455.9	492.6	509.7	550.1	577.0	568.2
27.5°	698.6	690.9	661.4	608.7	548.8	501.9	519.5	535.2	579.1	611.6	593.2
30°	799.8	796.0	771.8	724.7	658.7	590.3	569.5	579.9	617.7	655.2	636.4
32.5°	885.2	885.2	860.4	816.5	754.8	694.1	654.4	661.9	698.1	741.5	706.3
35°	979.1	976.0	956.0	914.2	845.0	791.5	775.3	785.4	818.1	850.3	763.8
37.5°	1077.9	1076.8	1056.1	1015.6	959.2	891.9	853.8	856.5	873.2	892.9	831.2
40°	1185.1	1186.7	1159.6	1134.6	1081.3	1012.4	939.5	922.7	938.4	994.0	955.5
42.5°	1311.8	1308.1	1296.4	1262.3	1219.5	1178.2	1090.7	1084.5	1098.4	1158.0	1116.2
45°	1459.0	1464.3	1444.1	1425.2	1396.5	1362.1	1288.9	1278.3	1293.5	1386.1	1326.7
47.5°	1606.4	1601.4	1614.4	1611.0	1626.4	1600.9	1536.2	1514.4	1550.8	1638.7	1551.4
50°	1718.8	1724.4	1751.5	1791.2	1857.4	1871.8	1809.8	1802.3	1818.6	1875.0	1752.3
52.5°	1791.7	1810.3	1852.9	1954.8	2074.3	2167.2	2120.1	2116.1	2109.5	2124.6	1944.5
55°	1839.3	1858.2	1913.8	2064.0	2269.7	2420.6	2423.0	2405.9	2362.0	2351.1	2124.1
57.5°	1810.0	1813.8	1893.1	2093.8	2378.0	2601.3	2679.5	2662.5	2581.3	2540.1	2282.7
60°	1626.9	1634.7	1745.1	1980.9	2330.9	2660.4	2849.6	2841.9	2753.0	2706.4	2406.2
62.5°	1302.5	1324.9	1438.5	1701.5	2111.9	2560.8	2918.5	2940.4	2871.2	2807.0	2445.1
63°	1242.9	1235.7	1355.7	1620.0	2053.8	2511.6	2919.6	2947.3	2876.5	2816.6	2434.4
65°	920.1	941.6	1019.6	1277.5	1709.2	2282.5	2853.9	2902.8	2856.8	2774.3	2316.5
67.5°	516.6	515.5	601.8	836.0	1196.3	1790.4	2580.5	2684.1	2674.5	2489.5	1920.2
70°	252.8	256.8	292.2	433.3	693.8	1235.2	2144.3	2256.1	2259.6	1955.4	1327.8
72.5°	114.4	116.3	141.6	211.1	356.6	657.6	1477.6	1584.4	1564.7	1246.1	733.2
75°	60.4	64.4	78.0	106.2	171.9	271.2	803.8	907.0	865.8	569.3	269.9
77.5°	44.7	46.0	53.0	67.6	92.1	105.7	346.8	412.5	386.4	206.0	89.4
80°	32.7	33.8	39.4	47.9	58.0	53.8	130.7	149.8	134.4	70.0	27.4
82.5°	20.0	20.2	28.7	35.7	36.5	30.1	43.1	46.3	48.4	39.4	14.9
85°	7.2	9.0	19.4	25.8	21.6	15.2	18.1	20.0	21.8	25.0	8.8
87.5°	0.8	1.1	9.3	12.5	6.1	5.6	6.7	7.5	8.0	9.3	4.3
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: P450443
 CATALOG NUMBER: GALN-SA1B-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	395.8	395.8	395.8	395.8	395.8	395.8	395.8	395.8	395.8	395.8	395.8
2.5°	398.2	399.2	398.4	397.1	396.8	396.0	394.4	394.4	394.4	395.0	394.4
5°	404.0	404.8	402.9	400.3	397.4	393.6	389.6	387.2	387.0	386.4	385.1
7.5°	415.2	416.3	412.0	405.6	397.6	388.6	380.1	372.1	368.3	365.4	365.4
10°	431.4	432.5	424.0	412.5	396.6	378.2	358.0	339.6	325.2	318.6	317.0
12.5°	450.8	451.4	437.3	417.3	391.0	355.6	312.5	272.3	244.3	231.5	230.2
15°	472.1	468.4	449.8	419.2	375.0	309.0	234.5	185.2	156.2	147.7	150.9
17.5°	493.7	486.8	459.4	416.3	339.1	234.5	157.6	126.4	117.4	115.0	115.0
20°	513.9	504.3	466.3	403.5	276.8	161.5	116.8	109.4	107.8	106.2	106.5
22.5°	534.2	519.5	472.4	375.0	206.3	115.5	104.6	102.2	100.1	97.9	97.7
25°	553.8	533.6	474.8	322.3	140.5	99.3	95.5	92.4	88.1	85.7	85.2
27.5°	574.3	550.7	473.2	255.8	102.5	88.9	85.2	80.6	75.6	71.3	71.3
30°	613.7	583.1	467.6	183.9	86.2	78.2	73.5	66.3	60.7	56.4	56.2
32.5°	667.5	625.4	448.5	129.3	76.6	68.9	61.7	53.8	47.9	44.7	44.7
35°	715.4	668.0	412.5	95.3	68.9	59.9	51.1	43.4	38.9	36.7	35.9
37.5°	788.3	730.3	363.0	77.4	61.5	51.9	42.8	35.7	31.9	30.3	30.3
40°	897.7	806.4	302.3	67.9	54.3	44.2	35.7	30.1	27.1	25.3	25.3
42.5°	1033.4	899.6	240.9	60.9	47.6	38.1	29.8	25.5	22.9	21.6	21.3
45°	1204.3	997.8	185.5	54.6	42.3	32.5	25.3	21.6	18.9	18.1	18.4
47.5°	1382.6	1084.3	143.7	49.0	36.7	27.4	21.6	18.6	16.8	15.7	15.7
50°	1534.9	1143.9	109.1	42.6	32.5	23.2	18.9	16.8	15.2	14.6	14.4
52.5°	1662.1	1161.2	83.6	37.0	28.5	20.0	16.8	15.2	13.8	13.0	13.0
55°	1770.4	1146.0	65.5	31.1	24.0	17.3	14.9	13.6	12.0	11.2	10.9
57.5°	1833.7	1097.3	50.0	25.8	19.4	14.4	13.0	11.4	9.6	8.3	8.3
60°	1865.7	1026.5	38.3	21.3	14.9	11.4	10.6	8.5	6.7	5.6	5.3
62.5°	1827.3	932.6	29.0	16.8	11.2	8.5	7.2	6.1	4.3	3.2	3.2
63°	1803.7	905.4	27.9	16.0	10.4	8.0	6.7	5.6	3.7	2.9	2.7
65°	1644.2	787.0	22.9	12.8	8.3	5.6	4.5	4.0	2.7	1.3	1.1
67.5°	1305.7	602.0	18.1	9.6	5.9	4.0	2.7	2.4	0.8	0.0	0.0
70°	882.8	388.8	14.1	6.9	4.0	2.4	1.3	1.1	0.3	0.0	0.0
72.5°	460.4	199.3	10.9	5.1	2.4	1.6	0.8	0.3	0.0	0.0	0.0
75°	162.9	67.9	8.0	3.2	1.6	0.8	0.3	0.0	0.0	0.0	0.0
77.5°	49.2	25.3	5.1	2.4	1.1	0.5	0.0	0.0	0.0	0.0	0.0
80°	17.3	9.3	2.9	1.6	0.8	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	8.5	4.5	1.9	1.3	0.8	0.3	0.0	0.0	0.0	0.0	0.0
85°	4.8	2.9	1.6	1.3	0.8	0.5	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	2.1	1.6	1.3	1.1	0.5	0.3	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)