

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: P450826

Luminaire Tested: **GALN-SA1C-827-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3783 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

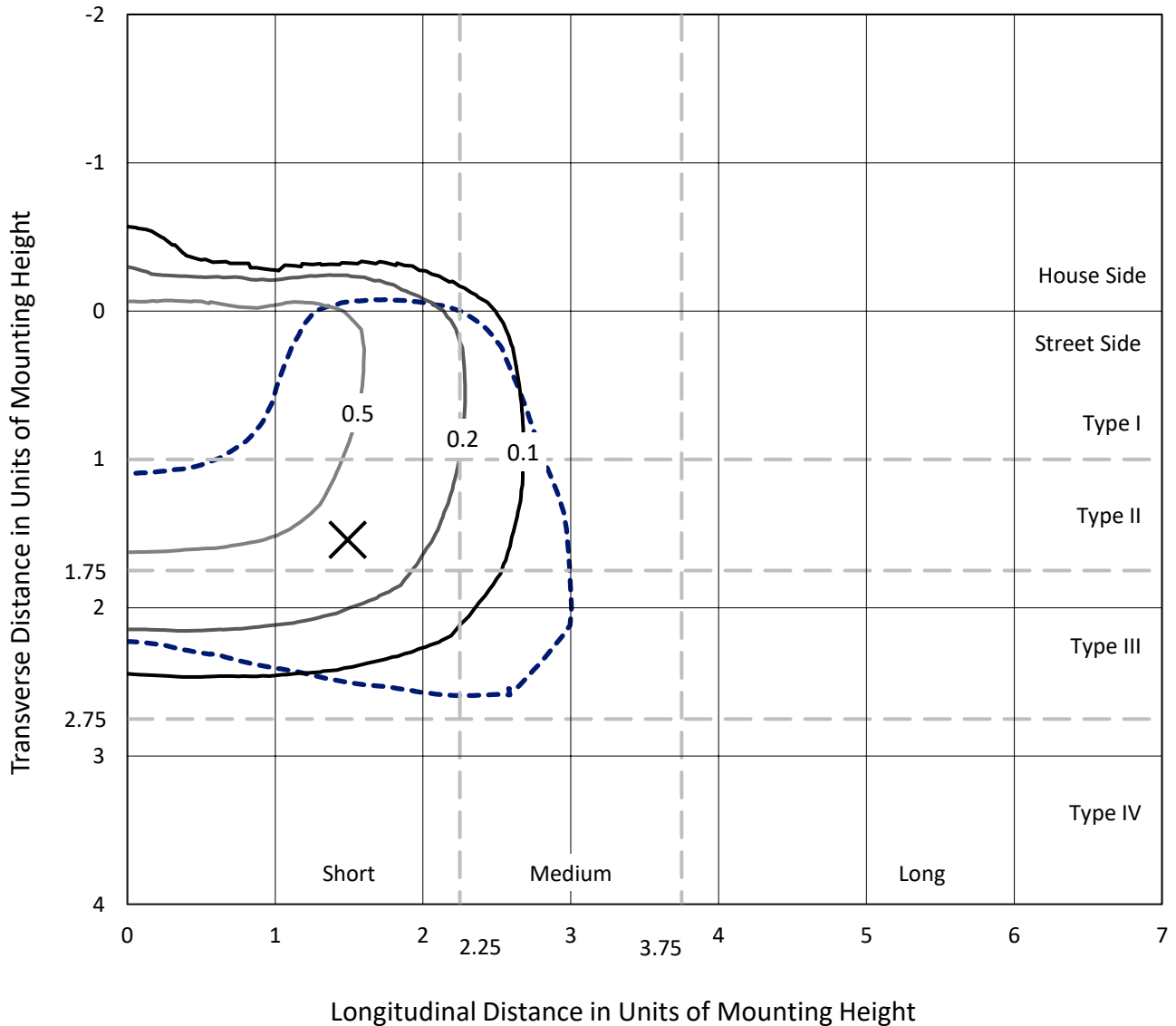
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450826
 CATALOG NUMBER: GALN-SA1C-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

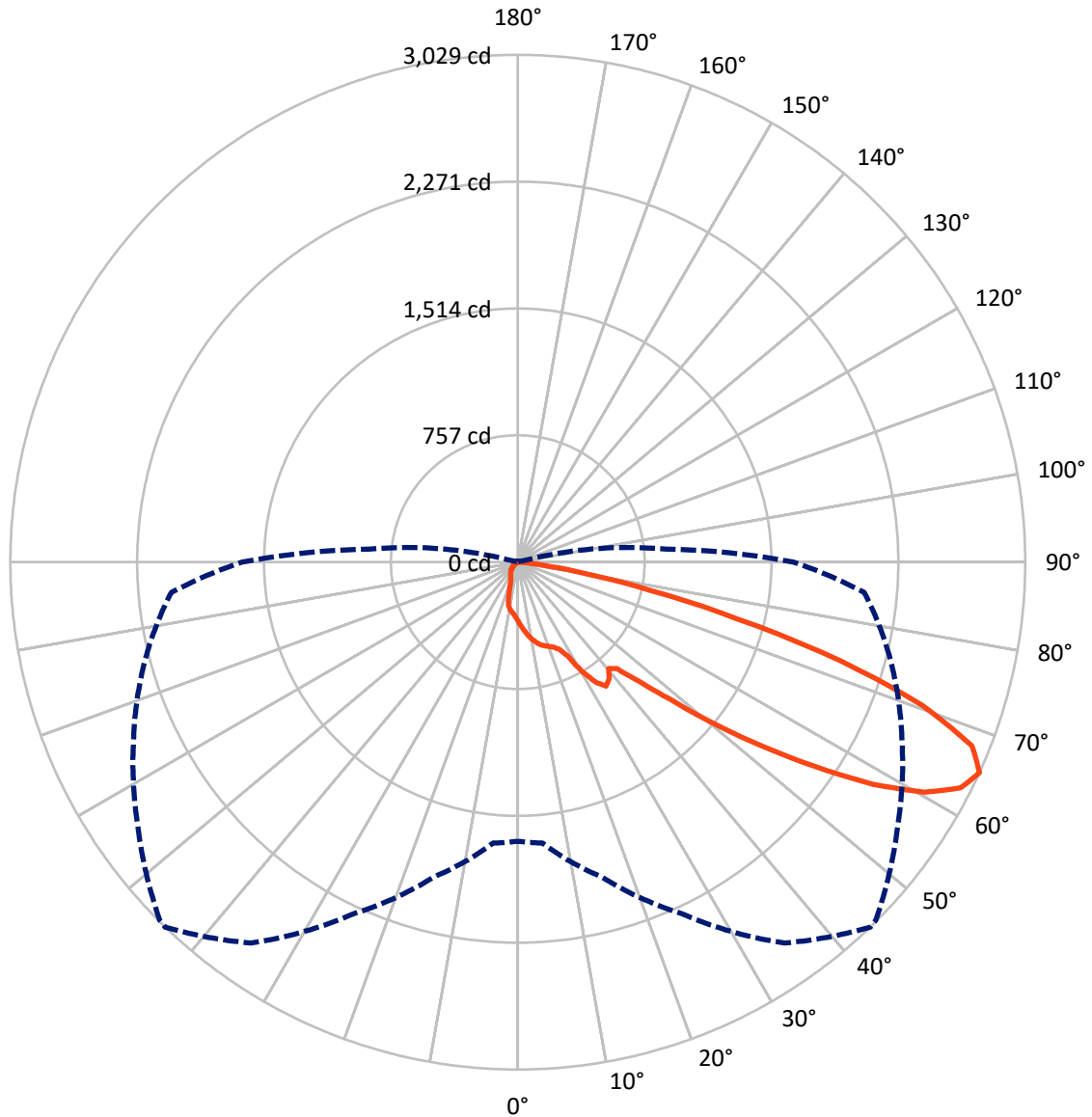
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type III - Short - N/A

REPORT NUMBER: P450826
CATALOG NUMBER: GALN-SA1C-827-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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CATALOG NUMBER: GALN-SA1C-827-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	348.6	0.0	348.6
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	3434.5	0.0	3434.5
	% Fixture	90.8	0.0	90.8
Total	Lumens	3783.0	0.0	3783.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	0.9
10°-20°	105.4	2.8
20°-30°	178.7	4.7
30°-40°	297.1	7.9
40°-50°	518.8	13.7
50°-60°	1013.6	26.8
60°-70°	1176.0	31.1
70°-80°	428.2	11.3
80°-90°	30.2	0.8
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°	3783.0	100.0
0°-180°	3783.0	100.0



REPORT NUMBER: P450826

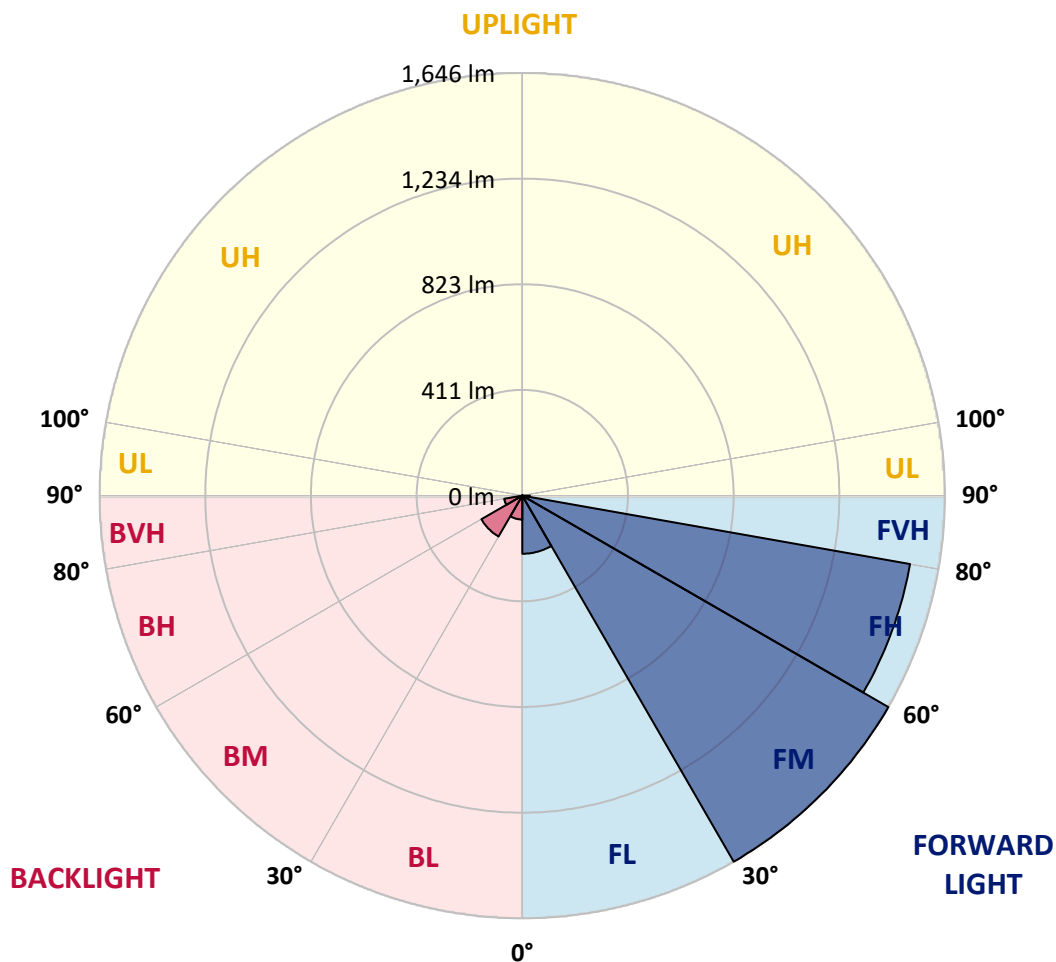
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	226.3	6.0			
FM	(30°-60°)	1645.6	43.5			
FH	(60°-80°)	1532.8	40.5			G1/1800
FVH	(80°-90°)	29.8	0.8			G1/100
BL	(0°-30°)	92.9	2.5	B0/110		
BM	(30°-60°)	183.9	4.9	B0/220		
BH	(60°-80°)	71.4	1.9	B0/110		G0/110
BVH	(80°-90°)	0.4	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 III Short





REPORT NUMBER: P450826

CATALOG NUMBER: GALN-SA1C-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	352.1	352.1	352.1	352.1	352.1	352.1	352.1	352.1	352.1	352.1	352.1
2.5°	396.3	394.6	393.7	389.1	385.6	381.3	381.3	375.8	369.4	362.5	356.1
5°	440.5	437.6	433.9	429.8	421.7	410.2	410.2	398.6	385.3	373.5	360.5
7.5°	483.0	480.4	474.1	466.3	453.0	440.8	440.0	423.2	407.3	389.4	370.9
10°	520.3	518.3	512.8	497.8	483.9	468.0	467.7	448.9	430.4	408.5	385.6
12.5°	546.3	546.6	539.4	524.9	507.0	492.0	490.8	472.3	453.0	429.3	401.2
15°	564.8	564.8	557.3	541.1	524.9	511.6	510.5	494.3	474.4	448.6	418.3
17.5°	570.0	571.8	563.7	549.2	536.2	524.7	524.4	510.8	494.9	470.0	435.6
20°	568.0	569.8	563.4	552.1	543.2	536.5	535.6	530.2	515.4	492.0	454.1
22.5°	563.7	565.4	560.8	554.1	549.8	551.8	550.4	555.0	547.2	518.9	476.1
25°	564.5	566.3	562.8	559.1	562.8	575.2	579.0	598.9	592.0	553.0	499.8
27.5°	591.7	595.2	590.3	592.0	605.3	634.2	641.4	675.8	645.2	596.3	536.8
30°	652.1	649.8	640.6	649.0	695.2	756.5	754.5	749.0	701.0	646.4	580.7
32.5°	707.1	705.0	704.5	740.6	824.4	854.2	852.7	799.6	751.0	703.6	624.1
35°	729.3	721.5	719.8	807.4	947.6	908.3	899.3	820.4	811.7	766.0	668.3
37.5°	796.4	790.9	764.0	818.4	898.4	885.4	878.5	856.2	876.5	821.2	718.3
40°	934.6	919.2	895.0	841.8	828.8	834.2	841.2	902.2	953.1	896.7	785.1
42.5°	1106.3	1102.8	1057.7	958.5	861.1	868.6	877.6	998.2	1063.2	1010.3	894.1
45°	1312.4	1317.3	1252.2	1135.2	1007.4	1013.8	1026.8	1139.8	1212.4	1186.9	1065.5
47.5°	1499.7	1495.9	1474.0	1352.3	1234.3	1220.2	1241.3	1321.6	1418.7	1422.8	1278.3
50°	1688.2	1708.1	1675.4	1627.7	1540.2	1510.4	1502.6	1541.9	1689.9	1670.5	1533.8
52.5°	1959.0	1969.4	1908.1	1896.0	1915.9	1819.4	1811.6	1821.1	1953.5	1887.0	1725.2
55°	2129.3	2123.2	2100.4	2195.2	2274.1	2153.6	2143.7	2105.3	2172.3	2040.0	1909.3
57.5°	2183.0	2191.7	2244.9	2416.3	2603.1	2500.7	2482.8	2373.5	2330.2	2182.5	2078.7
60°	2159.0	2174.9	2289.7	2544.7	2803.7	2788.3	2773.0	2589.5	2443.5	2301.6	2197.5
62.5°	1988.2	2010.5	2194.0	2521.8	2871.6	2967.3	2948.2	2724.2	2518.9	2359.4	2218.3
65°	1666.2	1682.7	1946.3	2314.6	2775.1	3028.6	3021.6	2766.4	2530.8	2306.5	2075.8
67.5°	1187.8	1243.9	1488.1	1950.6	2489.5	2923.9	2935.8	2715.8	2419.5	2077.8	1719.1
70°	746.7	784.8	960.0	1396.5	1995.7	2565.2	2604.2	2484.2	2099.8	1619.6	1150.8
72.5°	356.1	384.5	509.3	884.0	1408.6	2018.3	2049.2	2039.4	1623.7	1020.4	593.7
75°	158.7	169.4	243.1	451.2	909.4	1356.6	1436.7	1450.0	1014.6	499.2	231.0
77.5°	80.9	81.2	113.9	218.5	454.1	809.4	825.3	871.8	550.1	220.0	80.4
80°	43.1	46.0	60.4	103.2	235.6	398.6	396.6	435.9	244.0	107.8	26.9
82.5°	19.4	21.4	34.1	54.1	115.0	151.2	163.0	178.4	104.6	68.8	11.9
85°	5.8	6.9	16.8	27.2	41.6	43.6	48.9	63.0	59.3	48.9	6.1
87.5°	0.9	0.9	6.9	7.5	6.1	7.8	8.1	9.0	19.1	17.9	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



REPORT NUMBER: P450826
 CATALOG NUMBER: GALN-SA1C-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	352.1	352.1	352.1	352.1	352.1	352.1	352.1	352.1	352.1	352.1	352.1
2.5°	352.7	350.6	343.4	337.3	332.1	329.0	325.2	322.9	321.7	320.9	321.2
5°	354.1	349.2	336.8	326.9	319.4	311.3	305.8	302.7	301.2	298.9	298.9
7.5°	362.2	354.4	337.1	322.0	309.0	298.0	287.6	283.9	281.3	280.7	280.1
10°	373.8	363.9	340.2	319.4	300.9	285.9	271.1	258.1	248.0	241.9	241.1
12.5°	388.2	374.1	345.1	317.7	294.0	267.4	228.4	202.1	184.4	178.9	179.8
15°	401.5	386.2	350.1	316.2	281.3	221.7	177.5	147.4	138.5	137.6	137.9
17.5°	417.4	399.2	355.8	314.2	246.3	169.4	131.8	123.7	125.5	128.3	128.1
20°	433.9	413.1	362.8	302.1	196.6	127.5	116.5	117.4	120.0	122.6	123.1
22.5°	451.5	429.0	370.9	272.9	150.0	111.0	110.4	111.6	114.2	117.1	117.7
25°	475.8	448.9	376.9	234.7	113.6	102.6	103.8	105.8	108.1	111.3	111.9
27.5°	507.0	475.8	380.1	185.0	98.3	95.1	95.4	98.3	101.2	104.1	104.1
30°	547.5	507.9	373.8	139.9	90.8	87.9	86.7	88.5	92.2	95.1	95.4
32.5°	583.6	538.2	357.0	107.0	85.3	81.2	78.3	78.6	80.1	81.8	82.1
35°	619.8	567.7	328.4	89.9	79.5	74.9	70.5	68.2	67.1	66.2	67.1
37.5°	666.0	604.4	290.2	81.8	74.6	68.8	62.7	57.8	53.8	51.2	51.7
40°	725.6	655.3	245.1	76.6	70.0	63.0	54.9	48.6	41.6	39.3	38.2
42.5°	823.8	732.5	197.7	72.3	65.3	56.9	46.8	38.2	31.8	29.5	30.1
45°	979.1	829.9	152.3	67.6	60.7	50.3	39.3	30.1	24.9	23.7	24.3
47.5°	1184.9	955.9	117.4	62.4	54.9	43.1	30.9	23.7	20.5	20.2	19.9
50°	1378.6	1073.3	98.0	56.7	48.0	35.8	25.4	19.9	17.9	17.6	17.6
52.5°	1553.7	1157.4	79.8	50.0	40.5	29.5	21.4	17.6	15.9	15.0	15.0
55°	1709.5	1212.4	64.8	41.9	31.8	23.4	18.5	15.9	13.9	12.7	12.4
57.5°	1827.2	1219.0	48.6	33.5	23.7	18.2	15.9	13.9	11.6	10.1	9.5
60°	1877.5	1161.5	35.8	25.4	17.6	14.5	12.7	11.3	8.7	7.2	6.9
62.5°	1826.9	1049.6	26.6	19.4	13.6	10.7	9.0	8.4	6.1	4.3	4.0
65°	1645.7	888.0	21.1	14.7	10.1	7.8	5.8	5.5	3.8	2.0	1.7
67.5°	1318.4	695.5	16.8	11.0	7.2	5.2	3.8	3.5	2.0	0.6	0.6
70°	857.4	444.6	13.6	8.1	4.6	3.5	2.3	1.7	1.2	0.3	0.0
72.5°	424.1	207.8	11.0	6.4	3.2	1.7	0.9	0.6	0.9	0.0	0.0
75°	164.5	74.0	8.1	4.3	1.7	0.9	0.6	0.0	0.3	0.0	0.0
77.5°	54.6	24.6	4.9	2.3	1.2	0.6	0.0	0.0	0.0	0.0	0.0
80°	20.2	9.5	2.6	1.4	0.6	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	8.1	3.8	1.7	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	2.3	1.2	0.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	1.7	1.2	0.9	0.6	0.3	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)