

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: P450822

Luminaire Tested: **GALN-SA1C-827-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450822
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-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 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: 4094 lumens
Efficiency: N/A
Efficacy: 71.8 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

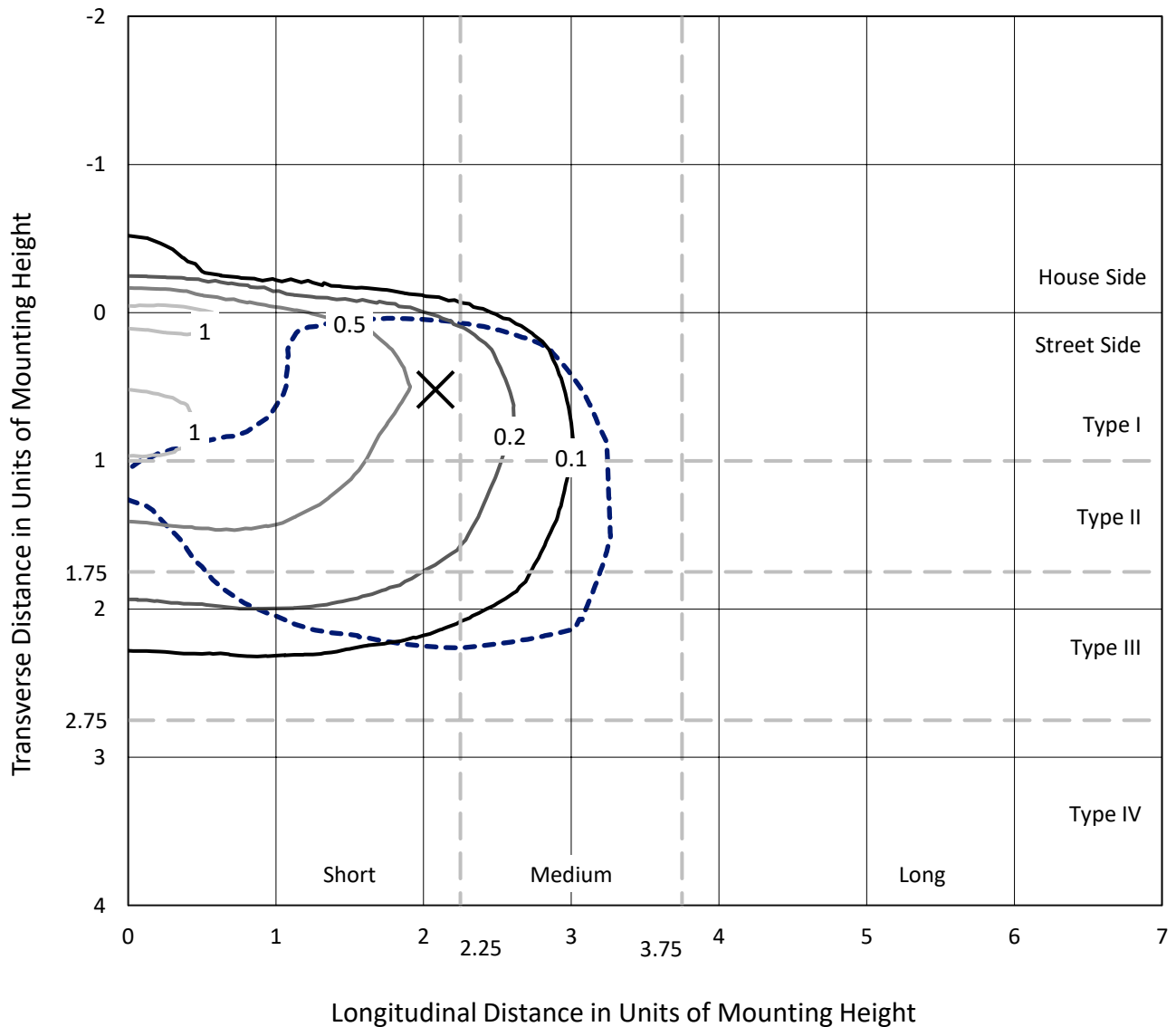
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

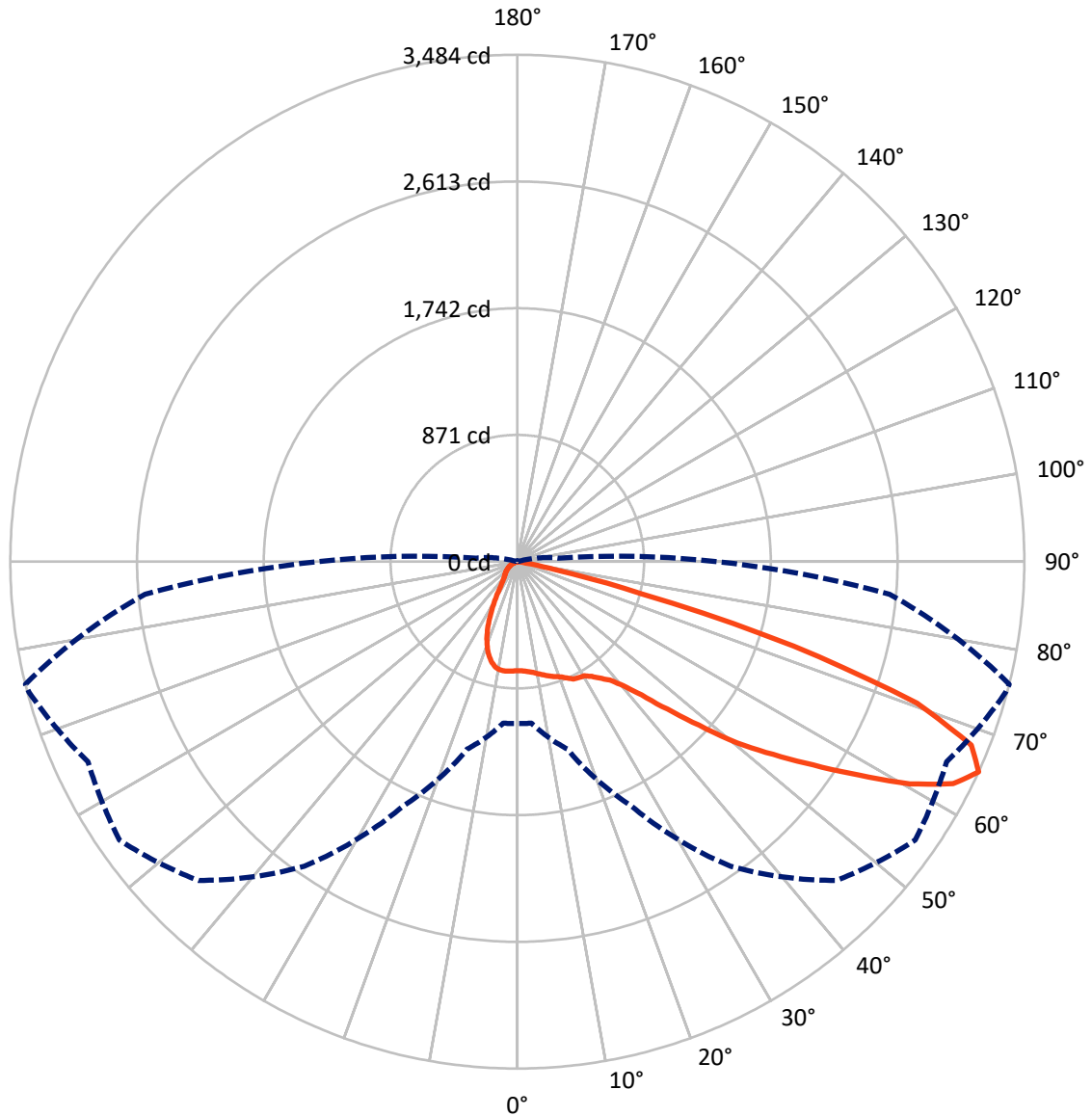
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	295.7	0.0	295.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	3798.3	0.0	3798.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	4094.0	0.0	4094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	1.5
10°-20°	137.4	3.4
20°-30°	221.4	5.4
30°-40°	384.9	9.4
40°-50°	636.0	15.5
50°-60°	982.5	24.0
60°-70°	1199.7	29.3
70°-80°	455.3	11.1
80°-90°	15.2	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°	4094.0	100.0
0°-180°	4094.0	100.0

Coefficient of Utilization



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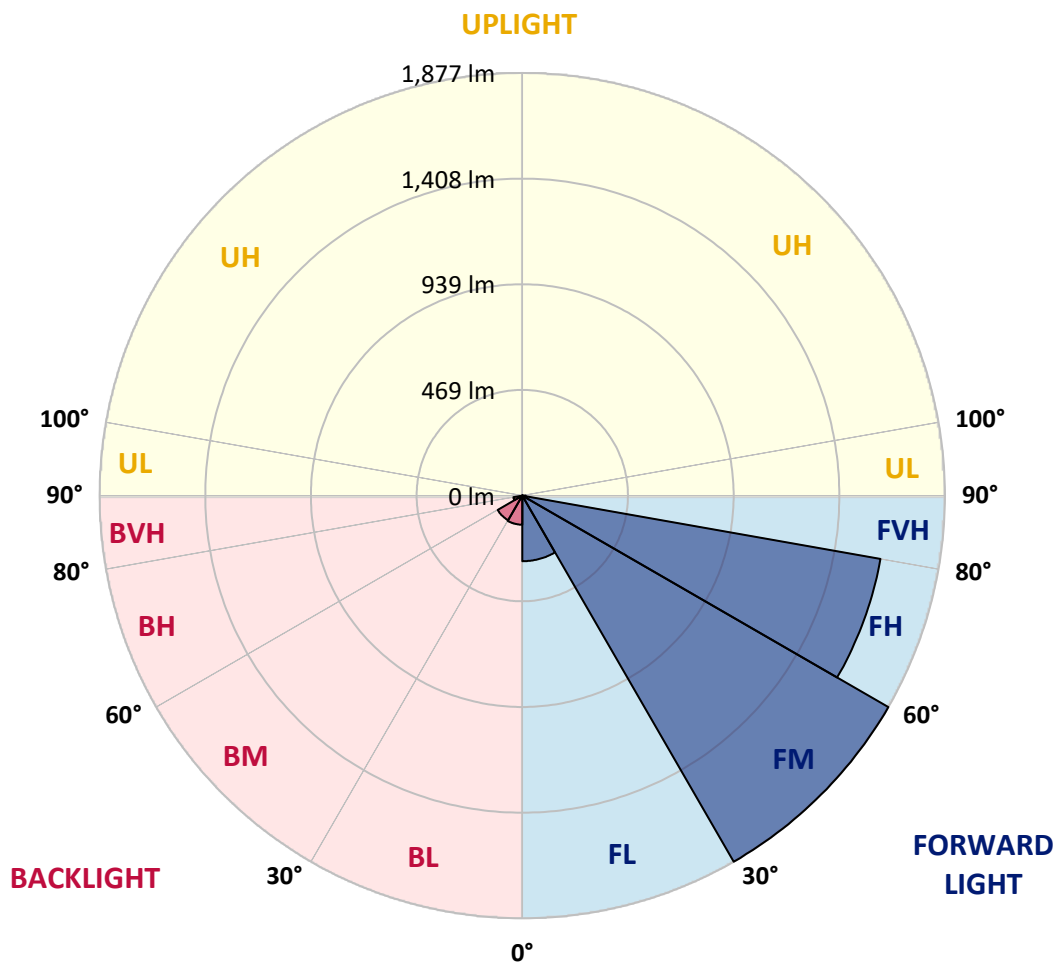
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.2	7.1			
FM (30°-60°)	1877.2	45.9			
FH (60°-80°)	1614.9	39.4			G1/1800
FVH (80°-90°)	15.0	0.4			G1/100
BL (0°-30°)	129.2	3.2	B1/500		
BM (30°-60°)	126.2	3.1	B0/220		
BH (60°-80°)	40.1	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9
2.5°	715.7	716.0	717.7	722.0	728.7	734.2	738.8	746.3	751.5	752.1	753.8
5°	666.3	662.8	666.3	677.5	687.6	703.0	721.8	740.5	757.3	758.5	766.6
7.5°	610.8	613.6	619.1	630.7	649.8	673.2	700.4	733.9	765.7	768.6	784.5
10°	554.4	560.8	569.7	587.3	613.9	644.3	681.3	729.3	779.0	783.0	810.5
12.5°	502.4	505.3	516.2	539.9	572.9	615.7	666.8	726.7	793.7	798.6	838.2
15°	462.5	466.2	475.8	497.2	533.9	588.8	655.0	725.8	808.2	815.1	866.0
17.5°	455.0	457.3	461.3	475.8	507.9	567.4	644.3	725.5	822.1	830.4	891.7
20°	485.9	483.9	479.8	478.4	496.0	550.9	636.5	727.8	835.3	844.9	918.9
22.5°	563.4	566.0	542.3	514.2	508.4	548.3	635.3	738.8	856.4	867.7	949.2
25°	727.8	707.9	670.9	603.8	553.2	564.2	648.3	764.8	881.0	893.4	976.7
27.5°	909.6	903.6	846.0	735.6	641.4	597.8	671.5	784.8	889.1	901.8	992.3
30°	1088.3	1095.5	1029.6	907.6	769.4	659.9	693.1	792.3	896.3	909.6	1012.2
32.5°	1253.9	1262.6	1204.8	1083.9	920.3	767.4	730.4	821.5	926.7	940.3	1045.5
35°	1384.3	1385.4	1341.8	1245.5	1085.1	898.1	811.1	872.6	967.7	983.6	1080.8
37.5°	1503.9	1502.2	1451.0	1368.1	1222.4	1027.9	912.5	931.6	1014.6	1031.0	1131.6
40°	1592.7	1593.8	1577.3	1499.3	1350.4	1147.8	992.9	986.8	1093.2	1118.9	1205.6
42.5°	1651.9	1662.6	1670.7	1631.1	1511.4	1295.5	1116.3	1105.0	1229.6	1251.0	1310.3
45°	1699.9	1719.0	1759.4	1757.4	1666.1	1476.7	1285.7	1262.6	1423.0	1445.8	1443.5
47.5°	1734.9	1754.2	1821.3	1861.8	1811.5	1652.5	1498.7	1478.8	1653.9	1678.8	1590.6
50°	1752.8	1775.9	1861.5	1939.8	1925.1	1821.9	1741.5	1742.7	1932.9	1956.9	1761.2
52.5°	1710.9	1740.9	1882.9	2023.9	2052.5	1984.0	1969.0	2007.1	2181.2	2201.7	1915.2
55°	1577.0	1614.9	1853.7	2095.6	2200.2	2175.4	2227.4	2285.5	2452.6	2465.9	2073.3
57.5°	1492.4	1532.5	1767.5	2156.6	2377.7	2415.9	2498.2	2540.7	2732.7	2766.5	2254.9
60°	1421.0	1452.5	1696.7	2169.6	2558.1	2710.1	2790.2	2834.1	3078.4	3100.3	2454.6
62.5°	1302.2	1338.3	1577.0	2078.8	2648.8	2945.7	3111.6	3091.9	3345.7	3361.0	2577.2
65°	1111.1	1114.3	1334.2	1850.8	2555.2	3098.6	3337.3	3255.0	3473.5	3483.9	2567.6
67.5°	829.3	859.9	1026.4	1454.8	2158.3	2967.9	3410.5	3259.3	3392.8	3363.9	2363.8
70°	534.2	557.6	695.7	1008.8	1556.2	2476.9	3168.0	3035.9	2977.8	2913.6	1934.9
72.5°	246.6	276.6	413.3	576.4	922.9	1764.3	2571.7	2466.4	2143.3	1984.9	1229.9
75°	107.5	115.0	204.1	304.1	432.7	933.0	1695.6	1531.1	968.0	884.2	492.2
77.5°	65.6	70.5	106.9	163.0	170.0	355.5	913.4	668.0	299.2	263.9	133.5
80°	44.5	50.0	77.8	85.3	58.1	99.1	342.8	178.3	60.4	57.8	28.6
82.5°	21.7	27.5	57.5	47.7	25.1	31.8	99.7	38.2	17.6	16.5	10.1
85°	3.2	5.5	32.4	31.2	11.3	7.5	17.6	9.5	6.1	5.8	4.6
87.5°	0.0	0.0	11.0	4.9	1.2	1.2	2.0	2.0	2.3	2.0	2.3
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°	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9	748.9
2.5°	754.7	756.1	750.7	742.9	734.5	726.1	714.2	703.5	697.2	700.9	691.7
5°	768.3	767.1	752.7	729.0	697.5	659.6	622.0	589.9	579.5	563.9	562.2
7.5°	787.1	783.9	753.3	698.9	627.8	556.7	487.3	441.4	415.1	392.8	393.4
10°	813.4	804.1	746.6	646.0	529.0	421.7	333.3	272.6	246.3	237.9	231.2
12.5°	840.6	822.6	728.1	574.6	411.9	288.2	202.6	165.6	149.4	144.2	143.7
15°	864.8	836.5	695.7	488.8	299.5	184.1	138.2	126.0	124.0	124.3	124.0
17.5°	888.8	847.5	650.9	397.7	203.5	132.1	118.8	115.9	116.8	117.9	117.6
20°	908.8	849.8	593.7	303.5	143.9	115.9	111.6	111.0	111.9	112.7	112.7
22.5°	930.4	851.5	525.8	210.1	117.6	107.8	105.5	105.5	106.7	107.8	108.1
25°	946.6	842.0	444.6	150.9	103.8	100.0	98.9	99.1	100.3	100.9	100.6
27.5°	949.2	815.1	358.4	115.6	94.2	90.5	89.3	90.5	89.0	89.9	89.3
30°	951.5	781.0	271.1	97.4	85.6	79.8	78.0	76.3	75.2	73.7	73.4
32.5°	958.8	740.8	198.0	87.6	77.5	71.1	67.1	62.1	58.4	57.2	56.9
35°	962.0	692.6	145.4	79.8	70.2	63.3	56.1	49.1	43.6	41.6	43.1
37.5°	974.1	645.7	112.7	74.0	63.9	55.2	46.0	37.3	32.1	30.9	31.5
40°	998.9	594.9	94.5	69.1	58.4	47.7	36.4	28.0	24.6	23.4	23.1
42.5°	1038.8	544.3	84.1	64.5	52.9	40.2	28.6	22.0	19.1	18.2	18.2
45°	1087.4	495.7	76.9	59.5	47.1	32.4	22.5	17.6	15.9	15.3	15.3
47.5°	1151.3	453.2	70.8	54.6	40.8	25.7	18.2	15.3	14.2	14.5	14.7
50°	1216.0	421.7	64.2	49.1	33.5	21.1	15.6	13.6	13.3	13.6	13.6
52.5°	1264.9	403.2	55.2	41.6	26.3	17.6	13.9	12.7	12.4	11.9	11.9
55°	1330.8	399.2	43.9	33.8	20.8	14.7	12.4	11.6	10.7	10.1	9.8
57.5°	1415.5	403.8	33.8	26.3	16.2	12.1	11.0	9.5	8.4	7.2	7.2
60°	1468.1	393.4	26.3	20.2	11.9	9.8	8.4	6.9	5.5	4.6	4.3
62.5°	1451.3	349.5	20.8	15.0	8.4	7.2	5.5	4.6	3.2	2.3	2.0
65°	1364.9	282.1	16.8	10.4	6.1	4.3	2.9	2.9	1.4	0.3	0.0
67.5°	1194.6	209.0	13.3	6.9	3.5	2.0	1.4	0.9	0.0	0.0	0.0
70°	972.4	150.9	10.4	4.3	2.0	1.4	0.6	0.3	0.0	0.0	0.0
72.5°	617.4	86.4	8.1	2.6	1.4	0.6	0.0	0.0	0.0	0.0	0.0
75°	238.8	33.8	5.5	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	67.6	15.9	3.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	17.6	6.9	1.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.4	2.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.9	1.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	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)