

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: P458598

Luminaire Tested: **GALN-SA1C-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458598
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-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 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: 4794 lumens
Efficiency: N/A
Efficacy: 84.1 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

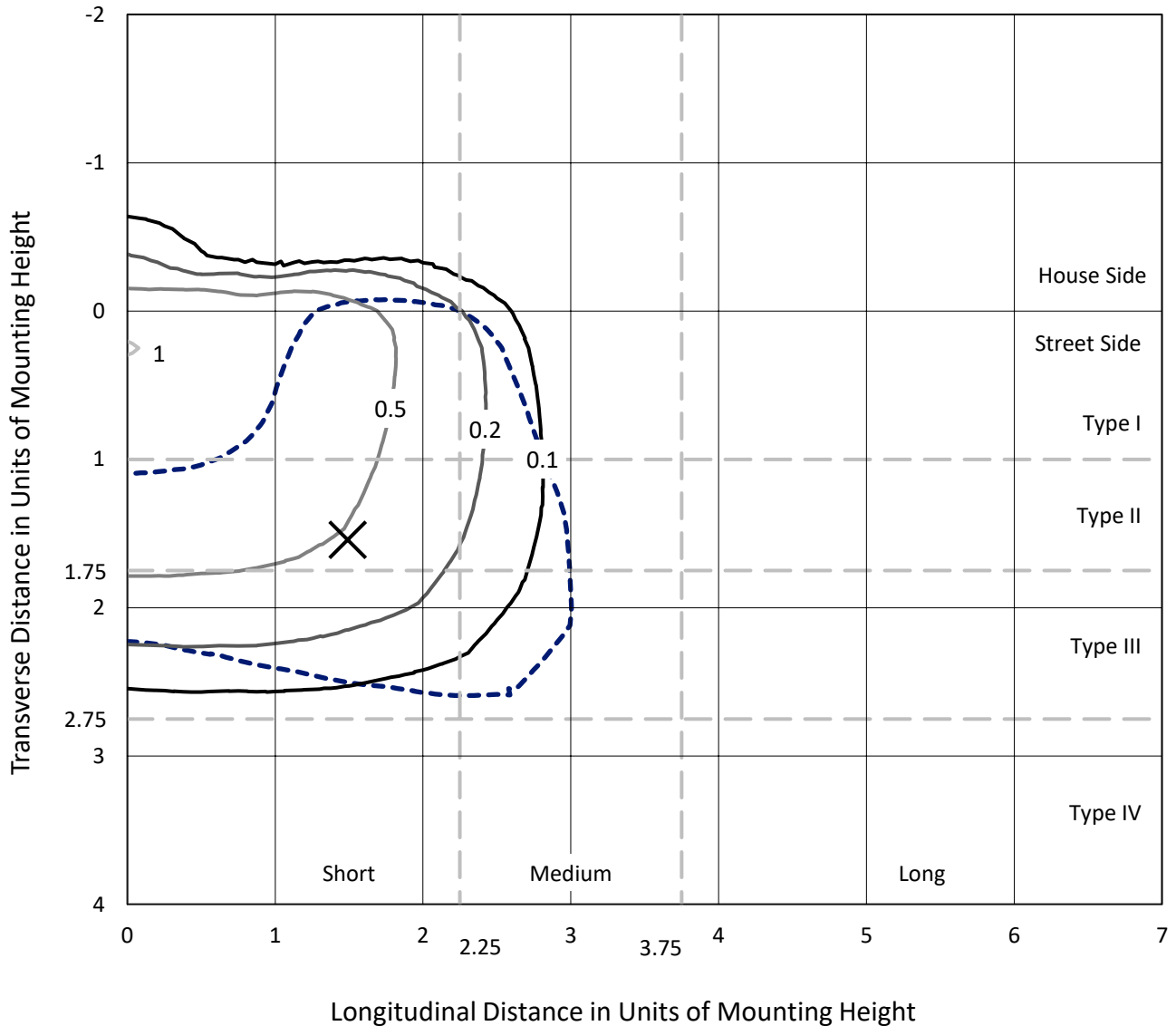
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

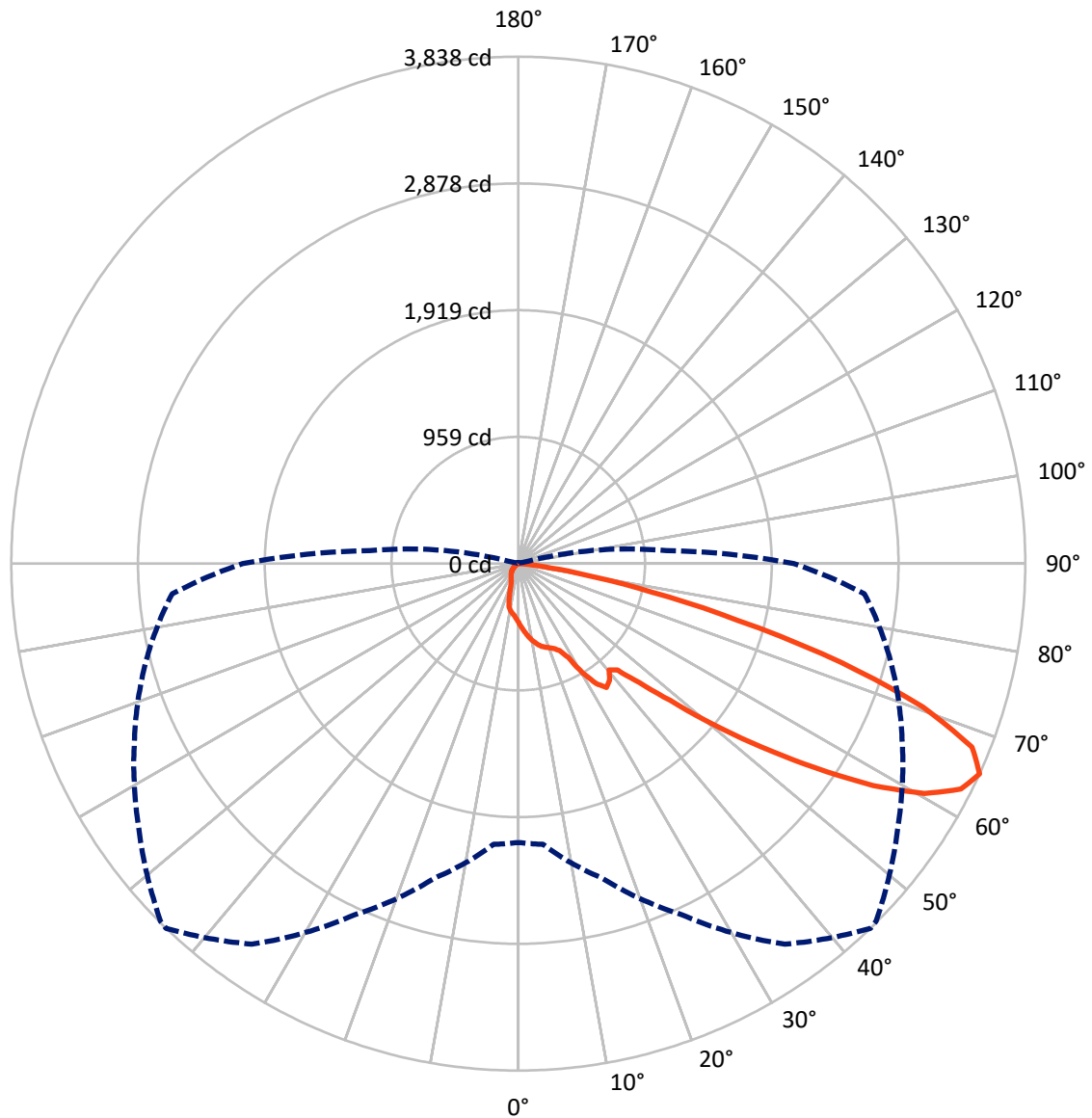
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	441.7	0.0	441.7
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	4352.3	0.0	4352.3
	% Fixture	90.8	0.0	90.8
Total	Lumens	4794.0	0.0	4794.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	0.9
10°-20°	133.6	2.8
20°-30°	226.5	4.7
30°-40°	376.5	7.9
40°-50°	657.5	13.7
50°-60°	1284.4	26.8
60°-70°	1490.2	31.1
70°-80°	542.7	11.3
80°-90°	38.2	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°	4794.0	100.0
0°-180°	4794.0	100.0

Coefficient of Utilization



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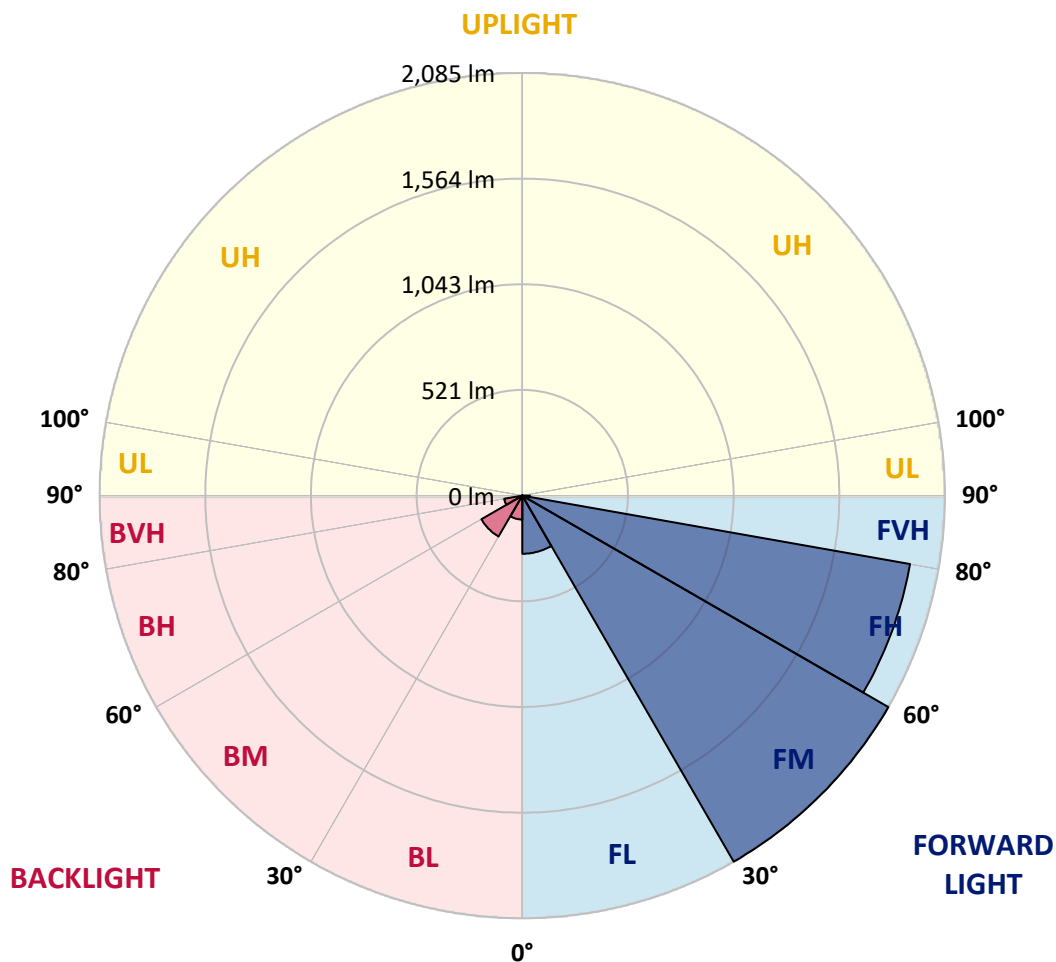
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	286.7	6.0			
FM (30°-60°)	2085.4	43.5			
FH (60°-80°)	1942.5	40.5			G2/5000
FVH (80°-90°)	37.7	0.8			G1/100
BL (0°-30°)	117.7	2.5	B1/500		
BM (30°-60°)	233.0	4.9	B1/1000		
BH (60°-80°)	90.5	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	446.2	446.2	446.2	446.2	446.2	446.2	446.2	446.2	446.2	446.2	446.2
2.5°	502.2	500.0	498.9	493.1	488.7	483.2	483.2	476.2	468.2	459.4	451.3
5°	558.3	554.6	549.8	544.7	534.5	519.8	519.8	505.2	488.3	473.3	456.8
7.5°	612.1	608.8	600.8	590.9	574.0	558.6	557.5	536.3	516.1	493.4	470.0
10°	659.4	656.8	649.9	630.8	613.2	593.1	592.7	568.9	545.5	517.6	488.7
12.5°	692.3	692.7	683.6	665.2	642.5	623.5	622.0	598.6	574.0	544.0	508.5
15°	715.8	715.8	706.3	685.8	665.2	648.4	646.9	626.4	601.1	568.5	530.1
17.5°	722.4	724.6	714.3	696.0	679.5	664.9	664.5	647.3	627.1	595.6	552.0
20°	719.8	722.0	714.0	699.7	688.3	679.9	678.8	671.8	653.1	623.5	575.5
22.5°	714.3	716.5	710.7	702.2	696.7	699.3	697.5	703.3	693.4	657.5	603.3
25°	715.4	717.6	713.2	708.5	713.2	729.0	733.7	759.0	750.2	700.8	633.4
27.5°	749.9	754.3	748.0	750.2	767.1	803.7	812.9	856.5	817.6	755.7	680.3
30°	826.4	823.5	811.8	822.4	881.0	958.7	956.1	949.1	888.3	819.1	735.9
32.5°	896.0	893.5	892.7	938.5	1044.7	1082.5	1080.6	1013.2	951.7	891.6	790.9
35°	924.2	914.3	912.1	1023.1	1200.8	1151.0	1139.6	1039.6	1028.6	970.7	846.9
37.5°	1009.2	1002.3	968.2	1037.1	1138.5	1122.0	1113.2	1085.0	1110.7	1040.7	910.3
40°	1184.3	1164.9	1134.1	1066.7	1050.2	1057.2	1066.0	1143.3	1207.8	1136.3	994.9
42.5°	1401.9	1397.5	1340.4	1214.7	1091.3	1100.8	1112.1	1264.9	1347.3	1280.3	1133.0
45°	1663.1	1669.3	1586.9	1438.5	1276.6	1284.7	1301.2	1444.4	1536.3	1504.1	1350.3
47.5°	1900.5	1895.7	1867.9	1713.6	1564.2	1546.2	1573.0	1674.8	1797.9	1803.0	1619.9
50°	2139.3	2164.6	2123.2	2062.8	1951.8	1914.0	1904.1	1954.0	2141.5	2117.0	1943.7
52.5°	2482.6	2495.7	2418.1	2402.7	2428.0	2305.6	2295.7	2307.8	2475.6	2391.3	2186.2
55°	2698.3	2690.6	2661.7	2781.8	2881.8	2729.1	2716.6	2667.9	2752.9	2585.1	2419.5
57.5°	2766.5	2777.4	2844.8	3062.1	3298.7	3169.0	3146.3	3007.9	2952.9	2765.7	2634.2
60°	2736.0	2756.2	2901.6	3224.7	3552.9	3533.5	3514.1	3281.5	3096.5	2916.6	2784.8
62.5°	2519.6	2547.8	2780.4	3195.8	3639.0	3760.3	3736.1	3452.2	3192.1	2989.9	2811.1
65°	2111.5	2132.4	2466.4	2933.1	3516.7	3837.9	3829.1	3505.7	3207.1	2922.9	2630.5
67.5°	1505.2	1576.3	1885.8	2471.9	3154.8	3705.3	3720.4	3441.6	3066.1	2633.1	2178.5
70°	946.2	994.6	1216.6	1769.7	2529.1	3250.7	3300.2	3148.2	2661.0	2052.5	1458.3
72.5°	451.3	487.2	645.5	1120.2	1785.1	2557.7	2596.8	2584.4	2057.6	1293.1	752.4
75°	201.1	214.7	308.1	571.8	1152.4	1719.1	1820.6	1837.5	1285.8	632.6	292.7
77.5°	102.6	102.9	144.3	276.9	575.5	1025.7	1045.8	1104.8	697.1	278.8	101.8
80°	54.6	58.2	76.6	130.8	298.6	505.2	502.6	552.4	309.2	136.6	34.1
82.5°	24.5	27.1	43.2	68.5	145.8	191.6	206.6	226.0	132.6	87.2	15.0
85°	7.3	8.8	21.2	34.4	52.8	55.3	61.9	79.9	75.1	61.9	7.7
87.5°	1.1	1.1	8.8	9.5	7.7	9.9	10.3	11.4	24.2	22.7	4.0
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°	446.2	446.2	446.2	446.2	446.2	446.2	446.2	446.2	446.2	446.2	446.2
2.5°	446.9	444.3	435.2	427.5	420.9	416.9	412.1	409.2	407.7	406.6	407.0
5°	448.7	442.5	426.8	414.3	404.8	394.5	387.6	383.5	381.7	378.8	378.8
7.5°	459.0	449.1	427.1	408.1	391.6	377.7	364.5	359.7	356.4	355.7	355.0
10°	473.7	461.2	431.2	404.8	381.3	362.3	343.6	327.1	314.3	306.6	305.5
12.5°	492.0	474.0	437.4	402.6	372.5	338.8	289.4	256.1	233.7	226.8	227.9
15°	508.8	489.4	443.6	400.8	356.4	281.0	224.9	186.8	175.5	174.4	174.7
17.5°	529.0	505.9	450.9	398.2	312.1	214.7	167.0	156.8	159.0	162.6	162.3
20°	549.8	523.5	459.7	382.8	249.1	161.5	147.6	148.7	152.0	155.3	156.1
22.5°	572.2	543.6	470.0	345.8	190.1	140.7	139.9	141.4	144.7	148.4	149.1
25°	603.0	568.9	477.7	297.5	144.0	130.0	131.5	134.1	137.0	141.0	141.8
27.5°	642.5	603.0	481.7	234.4	124.5	120.5	120.9	124.5	128.2	131.9	131.9
30°	693.8	643.6	473.7	177.3	115.0	111.4	109.9	112.1	116.9	120.5	120.9
32.5°	739.6	682.1	452.4	135.5	108.1	102.9	99.3	99.6	101.5	103.7	104.0
35°	785.4	719.5	416.1	113.9	100.7	94.9	89.4	86.5	85.0	83.9	85.0
37.5°	844.0	766.0	367.8	103.7	94.5	87.2	79.5	73.3	68.1	64.8	65.6
40°	919.5	830.4	310.6	97.1	88.6	79.9	69.6	61.5	52.8	49.8	48.4
42.5°	1044.0	928.3	250.6	91.6	82.8	72.2	59.3	48.4	40.3	37.4	38.1
45°	1240.7	1051.7	193.1	85.7	76.9	63.7	49.8	38.1	31.5	30.0	30.8
47.5°	1501.5	1211.4	148.7	79.1	69.6	54.6	39.2	30.0	26.0	25.6	25.3
50°	1747.0	1360.1	124.2	71.8	60.8	45.4	32.2	25.3	22.7	22.3	22.3
52.5°	1969.0	1466.7	101.1	63.4	51.3	37.4	27.1	22.3	20.1	19.0	19.0
55°	2166.4	1536.3	82.1	53.1	40.3	29.7	23.4	20.1	17.6	16.1	15.8
57.5°	2315.5	1544.8	61.5	42.5	30.0	23.1	20.1	17.6	14.7	12.8	12.1
60°	2379.3	1471.9	45.4	32.2	22.3	18.3	16.1	14.3	11.0	9.2	8.8
62.5°	2315.1	1330.1	33.7	24.5	17.2	13.6	11.4	10.6	7.7	5.5	5.1
65°	2085.5	1125.3	26.7	18.7	12.8	9.9	7.3	7.0	4.8	2.6	2.2
67.5°	1670.8	881.4	21.2	13.9	9.2	6.6	4.8	4.4	2.6	0.7	0.7
70°	1086.5	563.4	17.2	10.3	5.9	4.4	2.9	2.2	1.5	0.4	0.0
72.5°	537.4	263.4	13.9	8.1	4.0	2.2	1.1	0.7	1.1	0.0	0.0
75°	208.4	93.8	10.3	5.5	2.2	1.1	0.7	0.0	0.4	0.0	0.0
77.5°	69.2	31.1	6.2	2.9	1.5	0.7	0.0	0.0	0.0	0.0	0.0
80°	25.6	12.1	3.3	1.8	0.7	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	10.3	4.8	2.2	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.1	2.9	1.5	1.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	2.2	1.5	1.1	0.7	0.4	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)