

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: P458849

Luminaire Tested: **GALN-SA3D-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16082 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

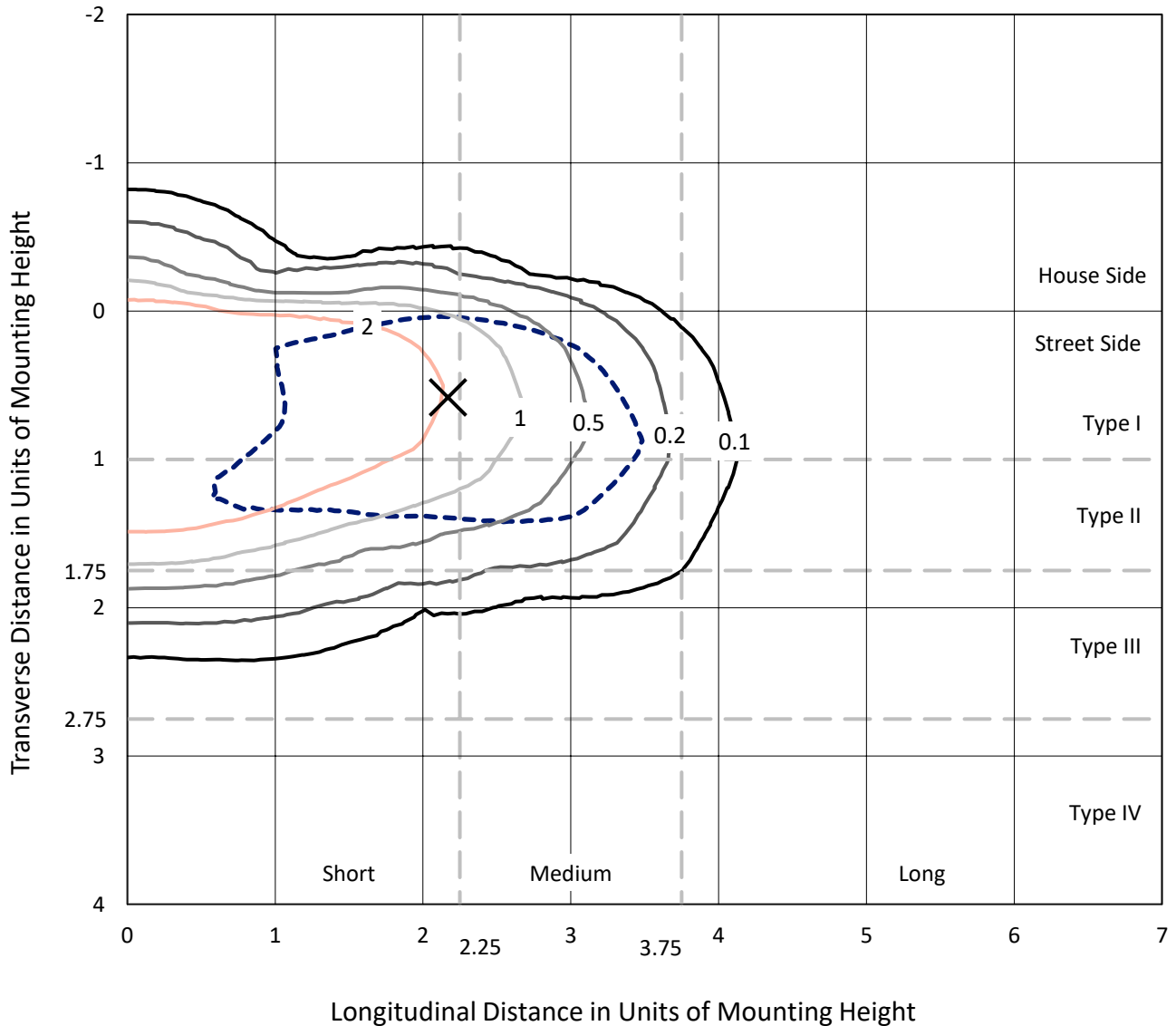
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

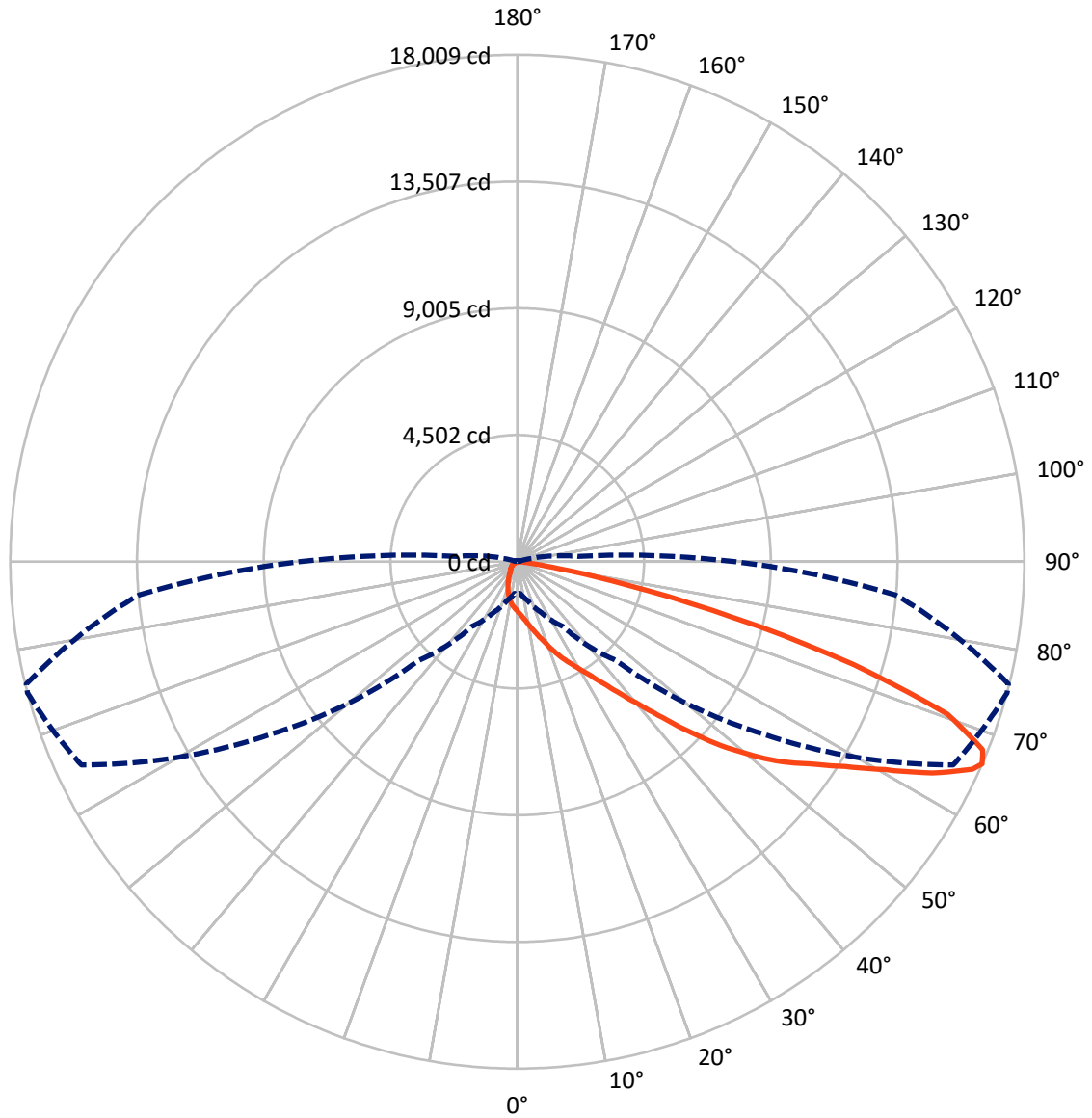
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	992.8	0.0	992.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	15089.2	0.0	15089.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	16082.0	0.0	16082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.6	1.1
10°-20°	499.2	3.1
20°-30°	862.1	5.4
30°-40°	1555.0	9.7
40°-50°	2809.1	17.5
50°-60°	4379.5	27.2
60°-70°	4160.3	25.9
70°-80°	1559.2	9.7
80°-90°	88.0	0.5
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°	16082.0	100.0
0°-180°	16082.0	100.0

Coefficient of Utilization



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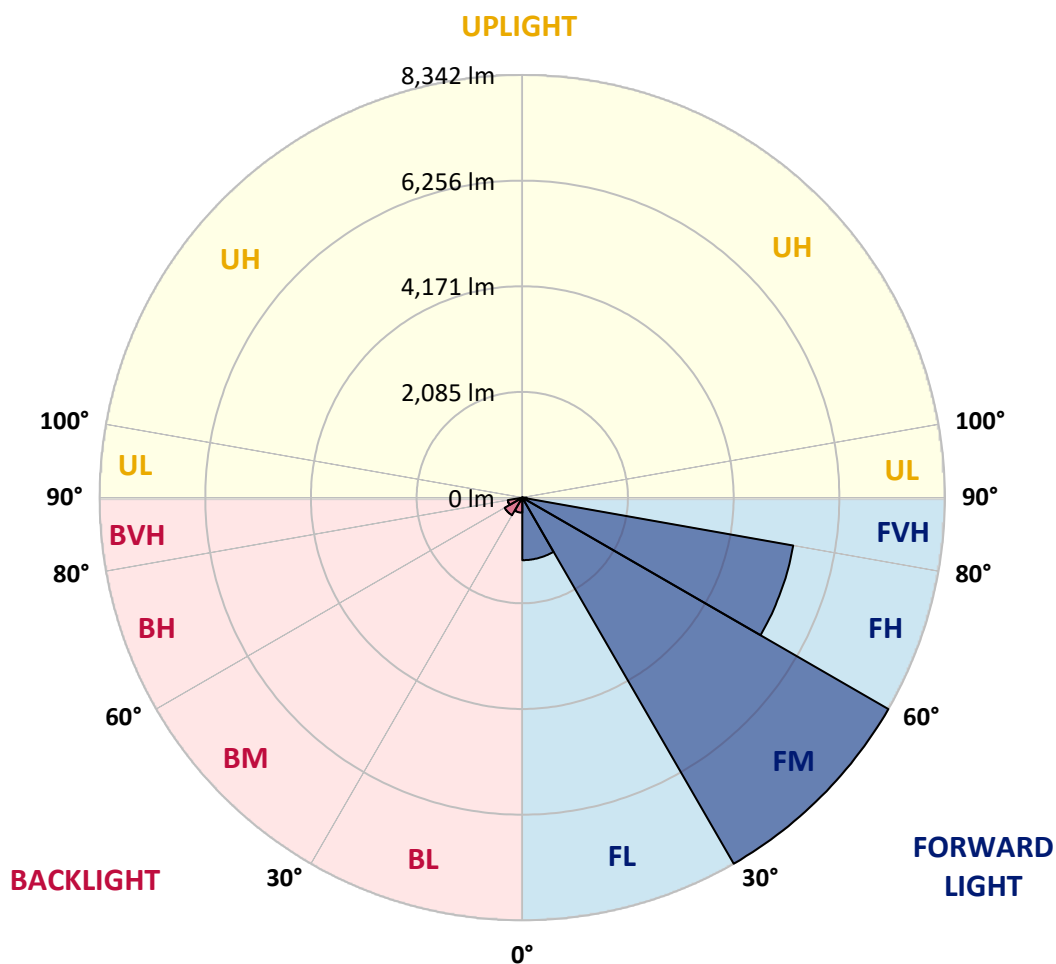
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1234.4	7.7			
FM (30°-60°)	8341.7	51.9			
FH (60°-80°)	5429.6	33.8			G3/7500
FVH (80°-90°)	83.4	0.5			G1/100
BL (0°-30°)	296.5	1.8	B1/500		
BM (30°-60°)	401.9	2.5	B1/1000		
BH (60°-80°)	289.9	1.8	B1/500		G1/500
BVH (80°-90°)	4.5	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7
2.5°	2101.2	2075.0	2083.4	2071.5	2044.1	2003.7	1968.0	1916.9	1865.7	1857.4	1800.3
5°	2378.3	2371.1	2361.6	2327.1	2308.1	2246.3	2172.5	2084.5	1978.7	1959.7	1856.2
7.5°	2567.3	2563.8	2568.5	2550.7	2534.0	2478.2	2399.7	2279.6	2115.5	2104.8	1932.3
10°	2629.2	2638.7	2656.5	2685.1	2711.2	2693.4	2633.9	2484.1	2292.6	2261.7	2019.1
12.5°	2593.5	2604.2	2647.0	2723.1	2807.5	2856.3	2832.5	2723.1	2480.5	2455.6	2116.7
15°	2501.9	2515.0	2575.7	2693.4	2844.4	2982.3	3041.8	2963.3	2699.3	2658.9	2234.4
17.5°	2366.4	2385.4	2472.2	2628.0	2834.9	3072.7	3240.4	3214.2	2932.4	2894.3	2362.8
20°	2264.1	2278.4	2352.1	2530.5	2794.5	3122.7	3429.5	3503.2	3220.2	3154.8	2513.8
22.5°	2331.9	2336.6	2361.6	2468.6	2721.9	3135.7	3595.9	3804.0	3525.8	3467.5	2670.8
25°	2663.7	2616.1	2591.1	2567.3	2706.5	3123.8	3747.0	4118.0	3830.2	3768.4	2826.6
27.5°	3186.9	3165.5	3039.4	2870.6	2838.5	3139.3	3846.8	4415.2	4116.8	4050.2	2978.8
30°	3756.5	3719.6	3642.3	3395.0	3146.4	3248.7	3919.4	4704.2	4455.7	4367.7	3117.9
32.5°	4279.7	4303.5	4188.1	3933.6	3645.9	3481.8	4013.3	5019.3	4844.5	4735.1	3279.6
35°	4889.7	4937.3	4760.1	4516.3	4179.8	3902.7	4196.4	5374.9	5338.0	5200.1	3529.3
37.5°	5509.2	5537.8	5429.6	5087.1	4783.9	4437.8	4541.3	5813.7	5945.7	5827.9	3827.8
40°	6030.1	6069.3	5989.7	5685.2	5361.8	5057.4	5041.9	6291.7	6668.7	6547.4	4272.5
42.5°	6428.4	6458.2	6460.6	6245.3	5954.0	5816.0	5680.5	6901.7	7574.8	7434.5	4788.6
45°	6931.4	6974.3	6949.3	6803.0	6585.4	6560.4	6490.3	7639.0	8659.3	8482.1	5458.1
47.5°	7709.1	7737.7	7675.8	7503.4	7282.2	7321.5	7279.9	8465.4	9765.1	9612.9	6151.4
50°	8249.0	8296.6	8384.6	8453.5	8293.0	8147.9	8024.3	9237.2	10815.2	10678.4	6860.1
52.5°	8243.1	8321.5	8599.8	8947.0	9297.8	9253.8	8898.3	10089.8	11817.6	11648.7	7526.0
55°	7687.7	7839.9	8249.0	8865.0	9836.5	10320.5	10158.8	11076.8	12683.3	12569.1	8297.8
57.5°	6541.4	6634.2	7202.6	8063.5	9535.6	10822.3	11619.0	12414.5	13721.4	13667.9	9496.4
60°	4399.8	4441.4	5172.7	6237.0	8118.2	10321.7	12689.2	14032.9	14999.7	14973.5	10896.0
62.5°	2521.0	2538.8	3069.1	3966.9	5776.8	8747.3	12779.6	16029.5	16532.5	16546.8	12515.6
65°	1356.8	1366.3	1794.4	2328.3	3515.1	6234.6	11491.8	17123.5	17771.6	17798.9	13519.2
66°	1171.3	1126.1	1428.1	1984.7	2796.8	4962.2	10677.2	17084.3	18009.4	17979.7	13483.6
67.5°	890.7	931.1	1140.4	1525.7	2072.7	3528.2	8815.0	16324.4	17828.7	17735.9	12935.4
70°	637.4	654.0	812.2	1088.1	1411.5	1935.9	5632.9	13558.5	16204.3	16079.4	11269.4
72.5°	411.4	429.3	575.5	787.2	1020.3	1057.1	3153.6	9796.1	12493.0	12475.2	8486.8
75°	293.7	310.4	380.5	563.6	767.0	654.0	1518.5	6602.1	7942.2	7888.7	5250.0
77.5°	212.9	221.2	254.5	368.6	548.2	468.5	704.0	3525.8	3953.9	4140.6	2320.0
80°	122.5	129.6	177.2	224.7	371.0	319.9	336.5	1415.1	1459.1	1388.9	725.4
82.5°	60.6	69.0	105.8	153.4	231.9	215.2	154.6	425.7	449.5	437.6	183.1
85°	14.3	17.8	59.5	101.1	113.0	96.3	74.9	124.9	154.6	151.0	70.2
87.5°	1.2	2.4	21.4	17.8	19.0	32.1	26.2	32.1	49.9	46.4	25.0
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°	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7
2.5°	1774.2	1751.6	1686.2	1622.0	1568.5	1512.6	1461.4	1431.7	1419.8	1406.7	1412.7
5°	1799.2	1744.5	1612.5	1498.3	1386.5	1291.4	1215.3	1166.5	1142.8	1139.2	1133.2
7.5°	1832.5	1738.5	1534.0	1355.6	1209.3	1103.5	1016.7	946.5	925.1	906.1	890.7
10°	1872.9	1727.8	1436.5	1205.8	1050.0	916.8	802.7	719.4	676.6	664.7	673.0
12.5°	1915.7	1707.6	1334.2	1067.8	888.3	718.2	612.4	570.8	558.9	554.1	555.3
15°	1958.5	1682.6	1227.2	934.7	707.5	573.2	524.4	513.7	508.9	506.6	504.2
17.5°	1997.7	1642.2	1107.1	805.0	573.2	489.9	472.1	462.6	453.1	449.5	443.5
20°	2044.1	1595.8	998.9	660.0	485.2	443.5	422.1	404.3	390.0	380.5	379.3
22.5°	2088.1	1536.4	885.9	547.0	442.4	398.4	363.9	344.8	328.2	316.3	319.9
25°	2111.9	1463.8	784.8	476.8	403.1	353.2	315.1	291.3	273.5	267.6	266.4
27.5°	2111.9	1374.6	686.1	436.4	367.4	312.7	273.5	250.9	239.0	230.7	231.9
30°	2095.2	1275.9	594.6	405.5	336.5	277.1	240.2	220.0	210.5	204.5	203.3
32.5°	2082.2	1182.0	516.1	375.8	304.4	246.2	214.0	198.6	189.1	183.1	183.1
35°	2102.4	1101.1	455.4	346.0	274.7	222.4	193.8	179.6	170.0	165.3	164.1
37.5°	2155.9	1027.4	409.1	313.9	247.3	202.2	179.6	162.9	153.4	147.5	145.1
40°	2287.9	985.8	374.6	284.2	221.2	185.5	162.9	147.5	135.6	129.6	128.4
42.5°	2499.6	987.0	341.3	256.9	201.0	171.2	148.6	130.8	117.7	111.8	110.6
45°	2818.2	1032.2	315.1	230.7	183.1	155.8	133.2	114.2	102.3	96.3	96.3
47.5°	3200.0	1120.2	292.5	208.1	166.5	141.5	117.7	98.7	86.8	82.1	82.1
50°	3613.8	1234.3	269.9	184.3	152.2	126.0	101.1	85.6	76.1	72.5	72.5
52.5°	4035.9	1372.3	247.3	165.3	136.8	109.4	86.8	76.1	67.8	65.4	64.2
55°	4590.0	1548.2	223.6	145.1	120.1	93.9	77.3	66.6	57.1	53.5	52.3
57.5°	5442.7	1813.4	197.4	127.2	98.7	78.5	66.6	55.9	45.2	39.2	38.1
60°	6471.3	2136.9	170.0	111.8	79.7	64.2	53.5	42.8	33.3	26.2	25.0
62.5°	7434.5	2342.6	143.9	93.9	63.0	48.8	38.1	32.1	23.8	16.6	15.5
65°	7860.2	2273.6	118.9	76.1	49.9	34.5	25.0	22.6	14.3	7.1	5.9
66°	7718.7	2171.4	109.4	69.0	45.2	29.7	21.4	19.0	10.7	3.6	3.6
67.5°	7301.3	1930.0	95.1	59.5	39.2	23.8	16.6	14.3	5.9	1.2	0.0
70°	6256.0	1561.3	74.9	44.0	28.5	16.6	9.5	7.1	3.6	0.0	0.0
72.5°	4805.3	1163.0	59.5	33.3	20.2	9.5	4.8	2.4	3.6	0.0	0.0
75°	2944.3	664.7	46.4	25.0	13.1	5.9	3.6	0.0	3.6	1.2	0.0
77.5°	1306.9	298.5	30.9	16.6	9.5	4.8	2.4	0.0	2.4	1.2	0.0
80°	330.6	97.5	17.8	11.9	7.1	3.6	1.2	0.0	2.4	2.4	1.2
82.5°	90.4	35.7	13.1	9.5	5.9	3.6	1.2	0.0	2.4	2.4	2.4
85°	35.7	16.6	11.9	9.5	7.1	3.6	1.2	0.0	2.4	2.4	2.4
87.5°	16.6	11.9	11.9	10.7	8.3	3.6	1.2	0.0	2.4	1.2	2.4
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)