

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: P458677

Luminaire Tested: **GALN-SA2B-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8534 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

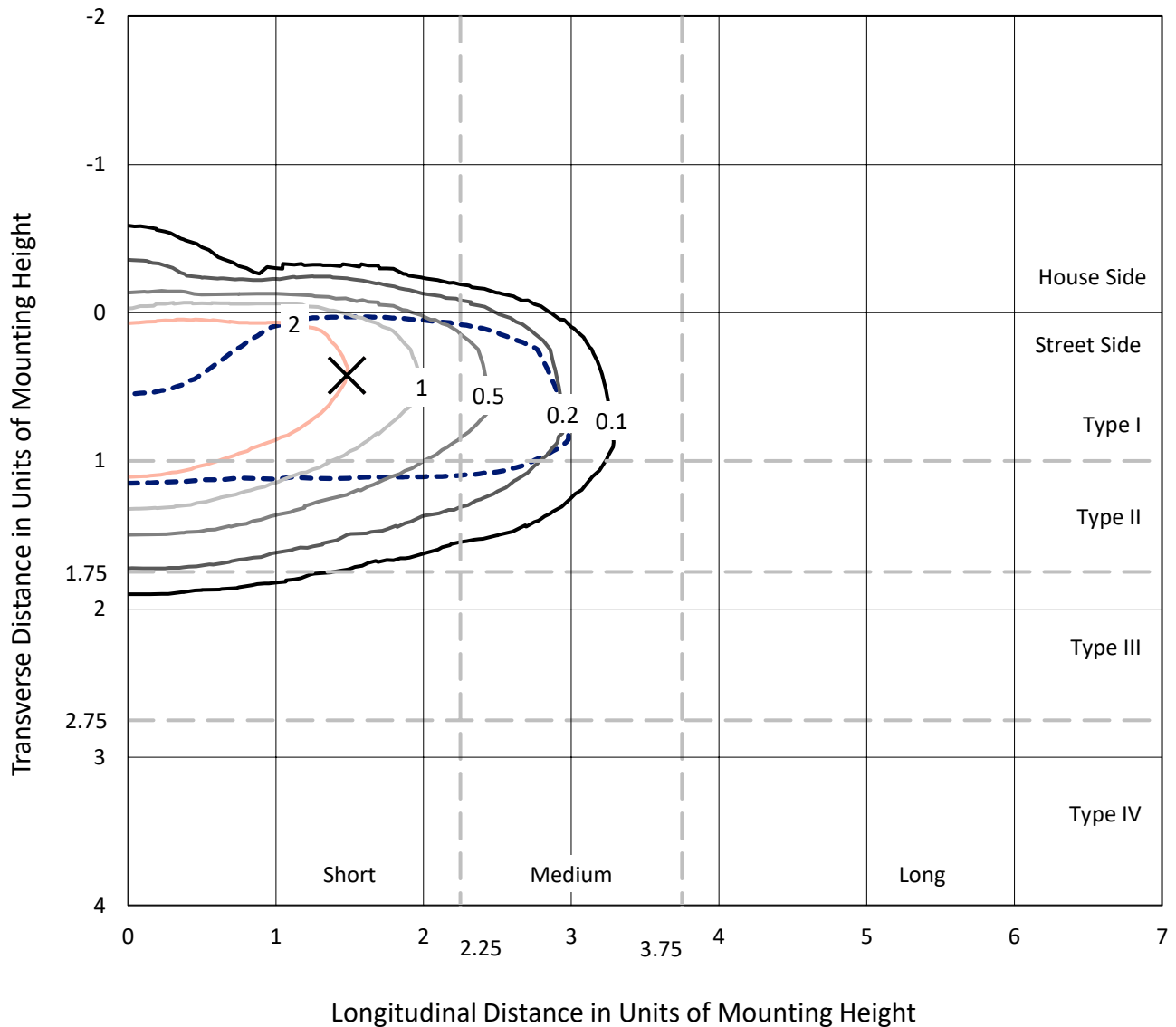
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

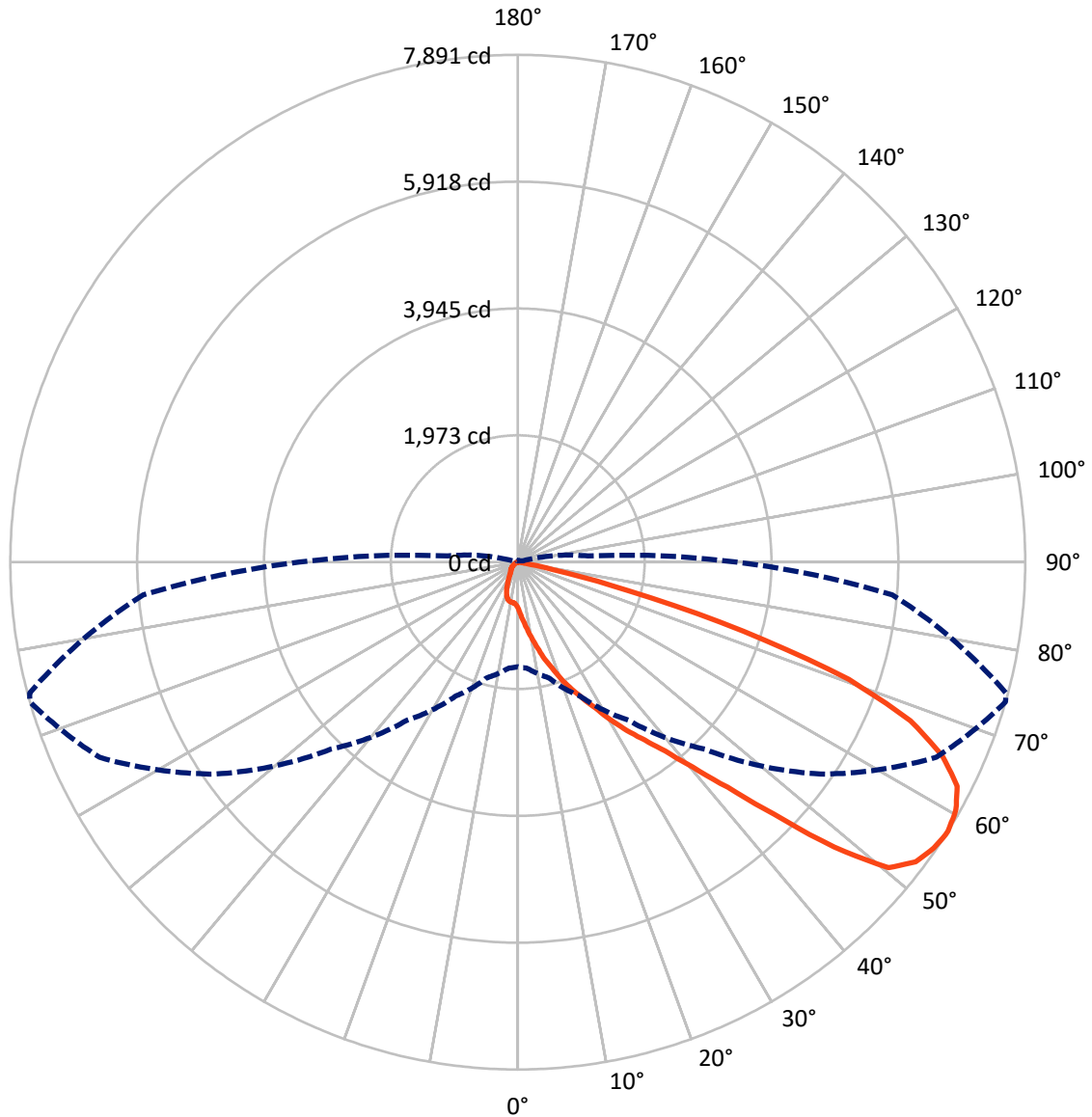
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	492.2	0.0	492.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	8041.8	0.0	8041.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	8534.0	0.0	8534.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	1.0
10°-20°	340.0	4.0
20°-30°	727.6	8.5
30°-40°	1337.3	15.7
40°-50°	2050.1	24.0
50°-60°	2168.7	25.4
60°-70°	1416.2	16.6
70°-80°	387.0	4.5
80°-90°	20.8	0.2
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°	8534.0	100.0
0°-180°	8534.0	100.0

Coefficient of Utilization



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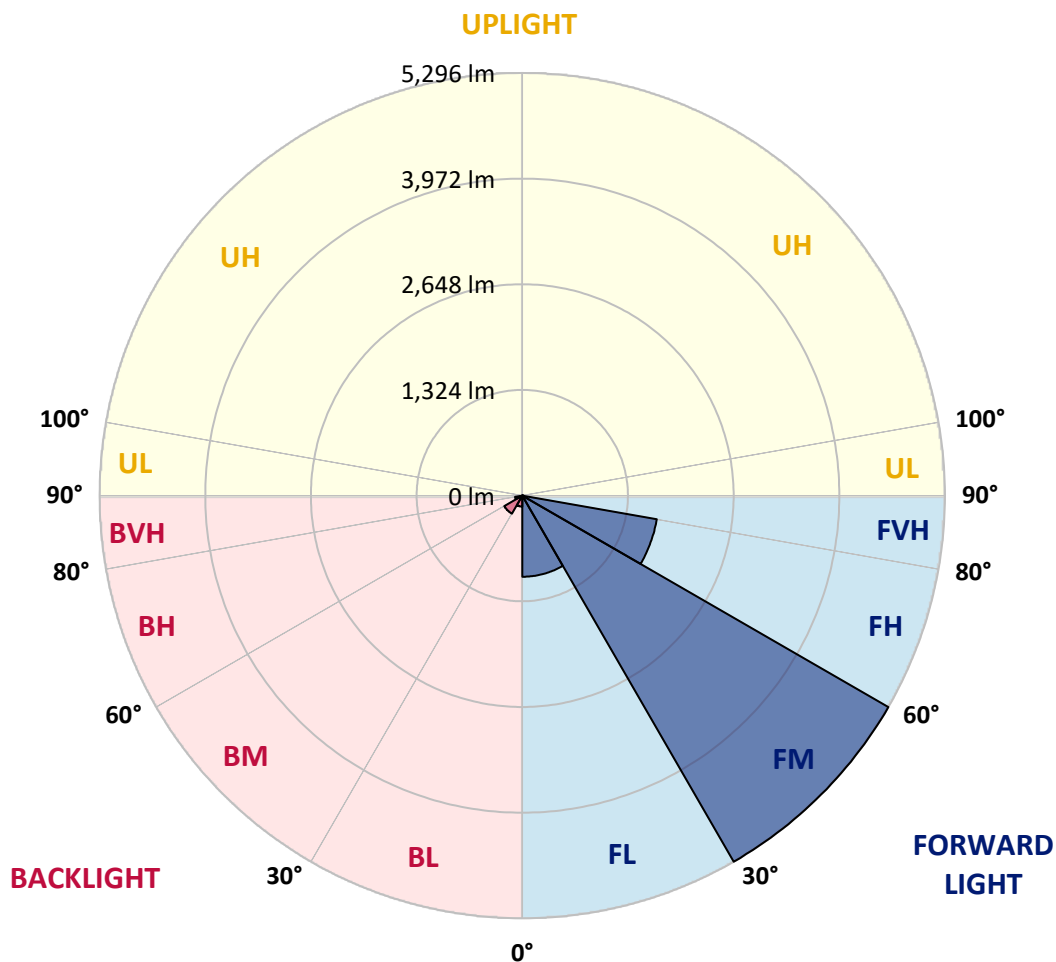
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1016.4	11.9			
FM	(30°-60°)	5295.5	62.1			
FH	(60°-80°)	1710.8	20.0			G1/1800
FVH	(80°-90°)	19.1	0.2			G1/100
BL	(0°-30°)	137.5	1.6	B1/500		
BM	(30°-60°)	260.6	3.1	B1/1000		
BH	(60°-80°)	92.4	1.1	B0/110		G0/110
BVH	(80°-90°)	1.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7
2.5°	1045.8	1036.4	1017.6	1011.1	983.4	940.4	902.7	852.0	811.9	807.8	759.5
5°	1400.6	1379.3	1370.5	1328.1	1261.5	1199.0	1091.8	1010.5	916.8	909.7	812.5
7.5°	1742.3	1712.8	1704.0	1663.9	1586.2	1487.8	1348.7	1200.8	1052.3	1038.8	883.8
10°	1989.8	1993.9	1978.0	1951.5	1888.4	1788.3	1616.8	1414.7	1203.2	1186.1	963.9
12.5°	2167.1	2166.5	2169.5	2168.9	2135.3	2059.3	1879.0	1646.3	1369.3	1335.7	1055.9
15°	2282.6	2284.4	2293.2	2323.8	2327.4	2280.2	2130.0	1867.8	1562.0	1520.2	1155.4
17.5°	2399.3	2411.6	2425.8	2454.6	2480.6	2461.7	2355.7	2098.8	1736.4	1705.2	1262.1
20°	2591.9	2609.0	2600.8	2618.4	2632.0	2633.8	2551.9	2312.1	1947.9	1895.5	1384.1
22.5°	2900.1	2899.5	2878.3	2846.5	2820.0	2818.8	2744.5	2531.2	2140.0	2089.3	1506.6
25°	3289.6	3291.3	3250.1	3159.3	3093.4	3012.6	2927.2	2723.3	2345.6	2283.2	1635.6
27.5°	3736.2	3725.0	3662.5	3537.6	3406.8	3268.9	3145.8	2946.6	2563.7	2511.8	1783.5
30°	4137.4	4133.3	4060.2	3907.6	3735.6	3597.1	3418.6	3226.5	2845.9	2782.2	1949.1
32.5°	4511.0	4516.9	4415.5	4257.6	4091.5	3931.8	3743.2	3494.0	3122.8	3032.7	2129.4
35°	4802.6	4808.5	4703.7	4572.3	4401.4	4268.8	4089.1	3779.2	3396.2	3320.2	2336.8
37.5°	4958.2	4965.9	4905.2	4806.2	4699.5	4633.0	4465.6	4146.3	3728.5	3682.6	2581.9
40°	4987.7	4996.5	4970.0	4943.5	4937.6	4985.3	4936.4	4578.7	4189.3	4117.4	2947.2
42.5°	4899.3	4911.1	4922.8	4981.8	5102.0	5277.0	5447.2	5165.6	4782.6	4686.0	3393.8
45°	4667.1	4666.0	4712.5	4865.1	5134.4	5507.9	5981.1	5900.3	5591.0	5476.1	4024.9
47.5°	4270.0	4264.1	4364.9	4582.3	5001.8	5550.4	6416.5	6792.4	6622.7	6516.7	4703.1
50°	3664.9	3693.8	3852.3	4155.7	4672.4	5421.9	6550.8	7377.5	7469.4	7356.9	5251.0
52.5°	2956.1	2954.9	3203.5	3615.4	4184.6	5139.1	6457.1	7483.6	7744.6	7658.5	5520.9
55°	2187.7	2203.1	2461.7	2877.1	3551.2	4622.9	6151.3	7374.5	7849.5	7788.8	5698.8
57°	1627.4	1654.5	1861.9	2301.5	2999.7	4112.1	5744.2	7179.5	7890.7	7857.7	5846.7
57.5°	1519.0	1520.2	1722.3	2121.7	2838.2	3915.9	5627.5	7098.2	7889.5	7871.3	5870.9
60°	935.1	964.5	1104.2	1434.1	2077.6	3056.2	4845.7	6631.0	7828.2	7854.8	5974.0
62.5°	559.7	572.1	662.9	864.4	1339.3	2230.7	3965.4	6032.9	7668.6	7749.3	5966.9
65°	360.0	363.0	404.2	523.2	837.3	1507.8	3055.6	5242.8	7255.5	7404.0	5733.6
67.5°	278.1	282.8	299.3	343.5	485.5	939.2	2161.2	4399.6	6587.4	6778.9	5168.0
70°	246.9	249.2	255.1	269.3	321.1	530.3	1344.6	3436.9	5462.6	5516.8	4044.3
72.5°	201.5	208.0	226.3	231.0	254.5	331.1	748.3	2306.8	3670.2	3683.7	2262.6
75°	156.1	157.3	184.4	198.0	214.5	228.0	334.1	1163.1	1762.9	1668.6	872.0
77.5°	116.7	122.0	134.3	151.4	175.0	163.2	149.7	438.4	547.4	537.4	253.4
80°	74.8	77.8	93.7	113.7	136.1	106.6	84.3	128.4	120.2	123.7	60.7
82.5°	37.7	38.3	60.1	92.5	86.6	53.6	53.0	52.4	44.8	44.2	28.3
85°	4.1	8.8	38.9	53.0	38.9	17.7	24.7	24.2	23.6	24.2	16.5
87.5°	0.6	0.6	6.5	7.7	5.3	5.9	7.1	7.7	9.4	8.8	7.1
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°	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7
2.5°	735.9	712.4	668.8	626.9	595.7	575.7	549.7	540.3	526.8	525.0	518.5
5°	767.7	723.0	647.0	586.9	538.5	502.0	470.2	443.7	422.5	417.7	420.1
7.5°	813.1	746.5	640.5	558.6	491.4	428.9	378.3	347.0	324.7	316.4	317.6
10°	864.4	777.8	639.3	528.5	426.0	349.4	294.0	266.3	253.4	248.6	243.3
12.5°	925.1	813.7	636.3	482.0	354.1	278.7	239.2	222.7	210.3	206.8	206.8
15°	993.4	852.0	622.2	424.2	287.5	230.4	203.9	190.9	186.8	183.2	183.2
17.5°	1064.7	889.7	592.7	352.9	238.6	197.4	180.9	173.2	167.3	163.2	163.2
20°	1146.0	926.8	545.6	289.9	201.5	176.2	163.2	154.4	149.7	146.1	144.9
22.5°	1223.2	956.9	485.5	238.0	175.6	158.5	146.7	137.3	132.6	130.8	130.8
25°	1303.3	975.1	413.0	196.8	160.3	143.8	130.8	123.1	119.0	117.8	117.3
27.5°	1381.1	985.7	349.4	172.0	146.1	130.2	117.8	111.9	107.8	106.6	107.2
30°	1475.4	987.5	287.5	154.4	133.8	117.3	106.1	100.8	98.4	97.2	96.6
32.5°	1570.8	985.2	241.6	143.8	122.0	106.1	96.6	92.5	90.7	89.0	89.0
35°	1678.1	972.8	205.6	133.2	110.8	96.6	88.4	84.8	82.5	80.7	80.1
37.5°	1811.2	966.3	185.0	121.4	100.8	87.8	80.1	76.6	74.8	72.5	71.9
40°	2021.0	995.2	178.5	110.8	90.7	79.5	72.5	68.3	66.0	63.6	63.0
42.5°	2282.6	1045.8	167.9	100.2	81.9	71.9	64.8	60.1	56.0	53.0	51.9
45°	2621.4	1112.4	151.4	89.0	74.2	63.6	57.2	51.3	46.0	43.6	43.0
47.5°	2976.7	1176.7	136.7	80.1	66.0	56.6	49.5	43.0	38.3	36.5	35.9
50°	3194.7	1189.6	127.3	70.1	57.7	48.9	41.8	35.9	33.0	31.2	31.2
52.5°	3294.3	1169.0	114.3	61.3	50.1	43.0	35.9	31.2	29.5	28.3	27.7
55°	3363.8	1137.2	97.2	53.0	43.0	36.5	31.8	28.3	25.9	24.7	24.2
57°	3404.5	1094.2	84.3	46.5	37.1	31.8	28.3	25.3	23.0	20.6	20.6
57.5°	3406.2	1077.7	80.7	46.0	35.4	30.6	27.7	24.7	21.8	19.4	18.9
60°	3353.8	964.5	64.8	38.9	28.3	25.9	23.0	19.4	15.3	13.0	12.4
62.5°	3185.3	820.8	53.6	33.0	23.0	20.0	16.5	14.7	10.6	7.7	7.7
65°	2930.1	665.8	46.0	26.5	18.9	14.7	11.2	10.6	6.5	3.5	2.9
67.5°	2561.3	518.5	38.9	21.8	15.9	10.6	7.7	7.1	3.5	1.2	0.0
70°	1951.5	353.5	32.4	17.7	11.8	7.7	5.3	4.1	2.4	0.6	0.0
72.5°	1124.8	194.4	27.1	13.6	8.8	5.9	4.1	2.4	2.4	0.0	0.0
75°	401.8	83.7	20.6	10.0	7.1	4.7	2.9	1.2	1.8	0.6	0.0
77.5°	127.9	44.8	13.6	7.7	5.9	3.5	2.4	1.2	1.2	0.6	0.0
80°	37.7	23.6	8.2	6.5	4.1	2.9	1.8	0.6	1.2	0.6	0.0
82.5°	20.6	11.8	6.5	4.7	4.1	2.4	1.8	0.6	0.6	0.6	0.0
85°	10.6	7.1	5.3	4.7	4.1	2.4	1.8	0.6	0.0	0.6	0.6
87.5°	5.9	5.3	5.3	4.7	4.1	2.9	1.8	0.6	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)