

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: P529855

Luminaire Tested: **GALN-SA5A-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12740 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

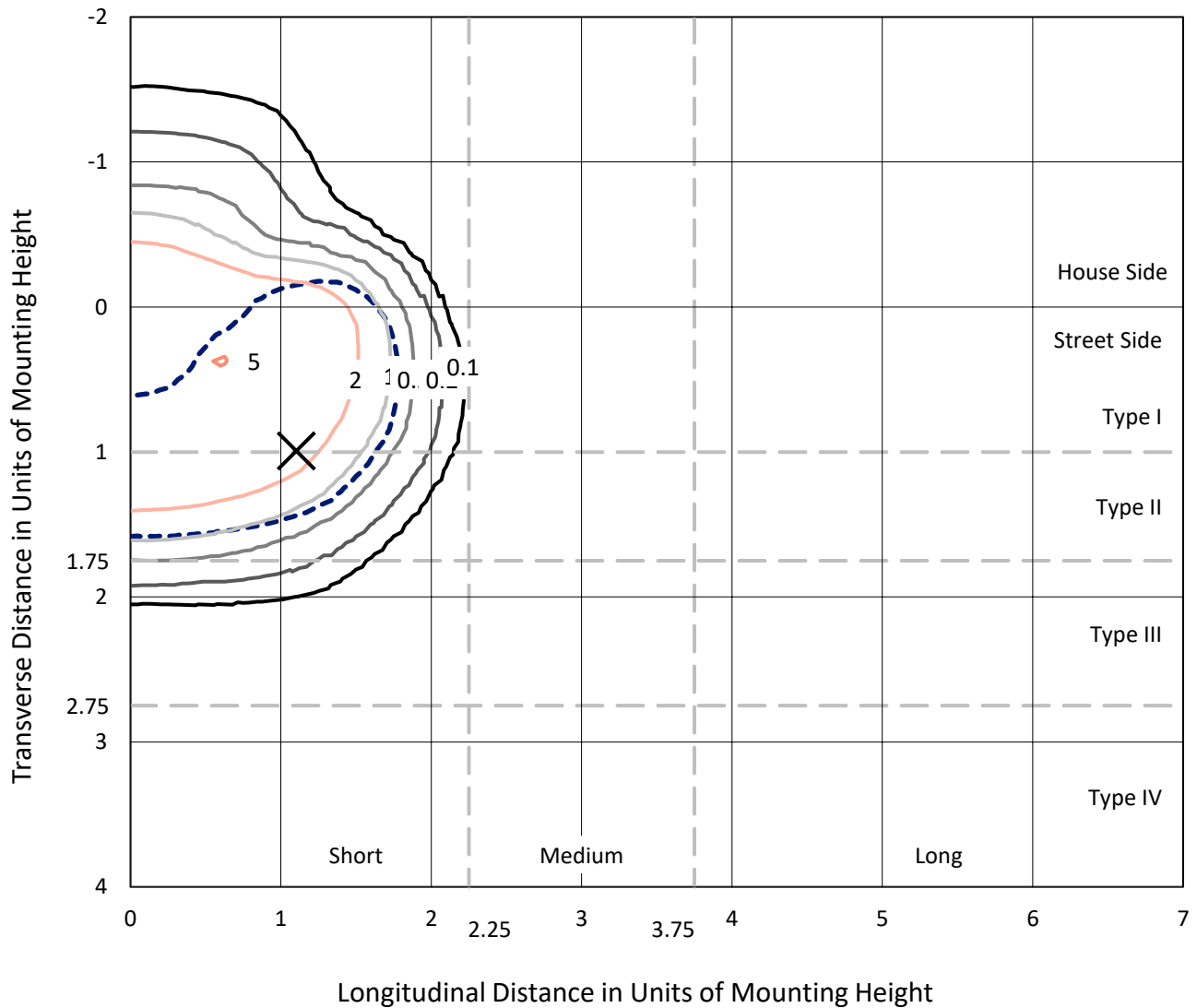
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529855
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Iso-Footcandle Lines of Horizontal Illumination

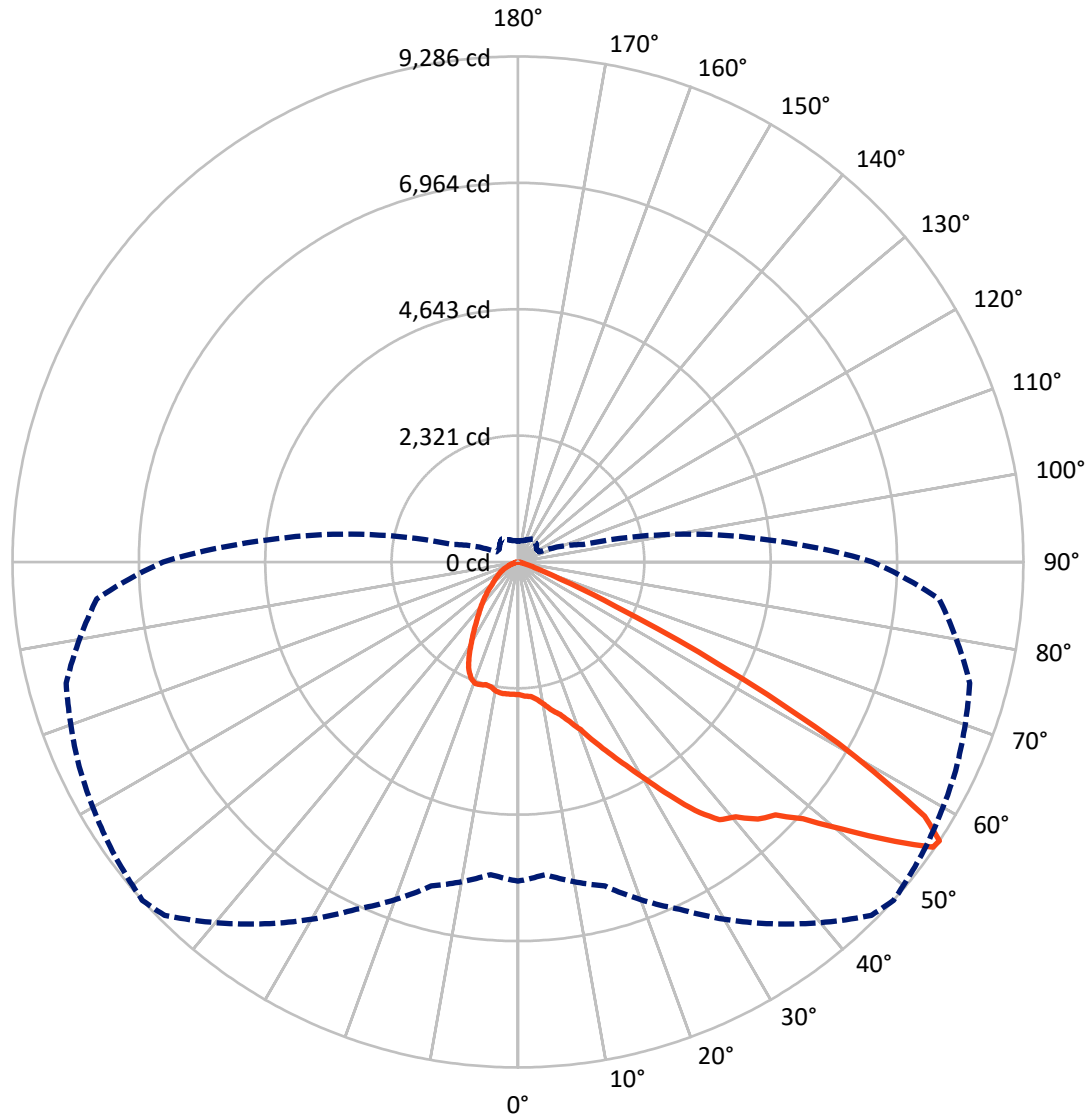
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA5A-735-U-T3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2770.7	0.0	2770.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	9969.3	0.0	9969.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	12740.0	0.0	12740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	1.9
10°-20°	757.5	5.9
20°-30°	1374.0	10.8
30°-40°	2158.3	16.9
40°-50°	3148.5	24.7
50°-60°	3793.4	29.8
60°-70°	1110.7	8.7
70°-80°	140.9	1.1
80°-90°	19.8	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°	12740.0	100.0
0°-180°	12740.0	100.0

Coefficient of Utilization

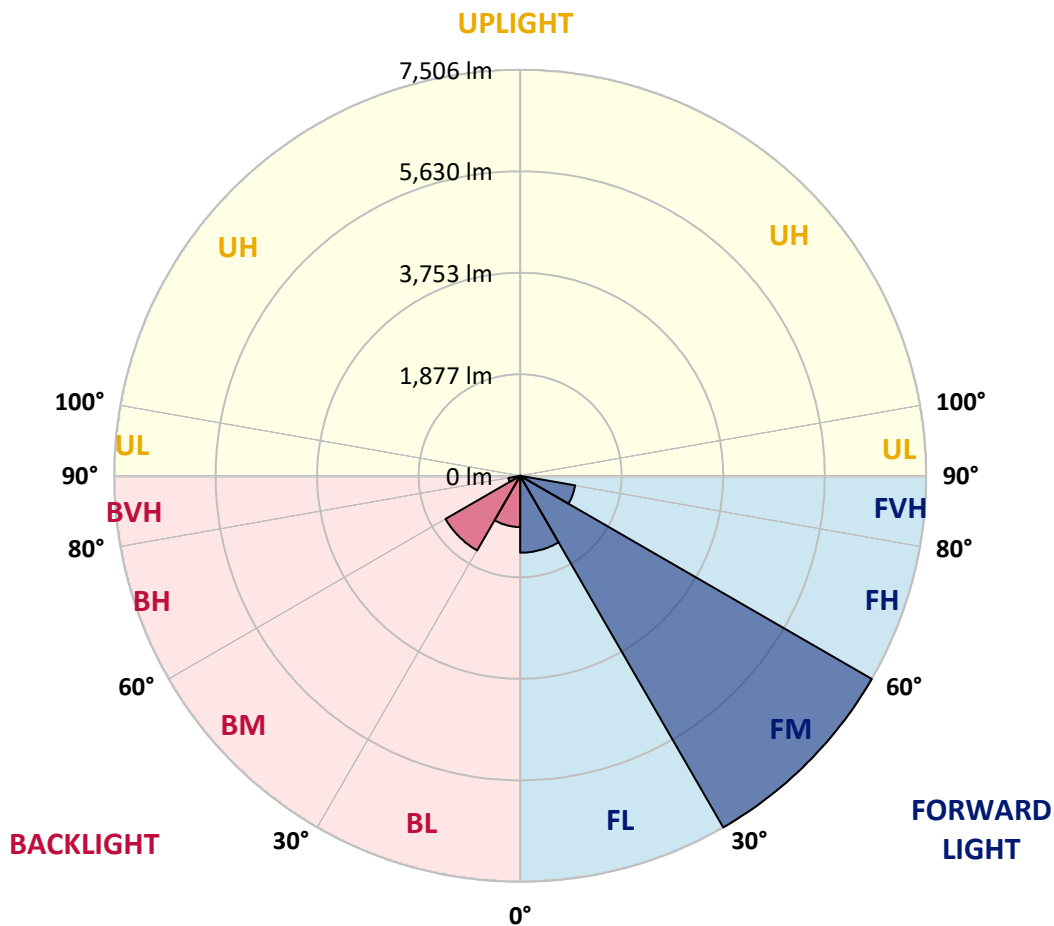


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1421.5	11.2			
FM (30°-60°)	7506.4	58.9			
FH (60°-80°)	1031.4	8.1			G1/1800
FVH (80°-90°)	9.9	0.1			G0/10
BL (0°-30°)	947.0	7.4	B2/1000		
BM (30°-60°)	1593.7	12.5	B2/2500		
BH (60°-80°)	220.2	1.7	B1/500		G1/500
BVH (80°-90°)	9.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CATALOG NUMBER: GALN-SA5A-735-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3
2.5°	2477.4	2465.8	2465.8	2447.3	2468.1	2458.9	2465.8	2442.6	2465.8	2431.0	2458.9
5°	2489.0	2491.3	2482.1	2493.7	2493.7	2507.6	2484.4	2505.3	2516.9	2491.3	2479.7
7.5°	2549.3	2554.0	2551.6	2542.4	2560.9	2558.6	2556.3	2540.1	2544.7	2535.4	2521.5
10°	2667.6	2665.3	2676.9	2653.7	2639.8	2656.0	2660.7	2635.2	2616.6	2609.6	2565.6
12.5°	2839.3	2811.5	2795.2	2772.0	2779.0	2755.8	2797.5	2753.5	2744.2	2702.4	2658.4
15°	2978.5	2973.8	2976.2	2939.0	2897.3	2906.6	2906.6	2883.4	2869.4	2818.4	2755.8
17.5°	3263.8	3166.4	3187.2	3140.8	3106.1	3103.7	3082.9	3087.5	3050.4	2943.7	2848.6
20°	3486.5	3444.7	3412.3	3333.4	3280.0	3296.3	3287.0	3263.8	3252.2	3113.0	2978.5
22.5°	3686.0	3699.9	3646.5	3625.7	3551.4	3558.4	3576.9	3556.1	3467.9	3324.1	3124.6
25°	3966.7	3950.4	3878.5	3853.0	3783.4	3808.9	3880.8	3864.6	3808.9	3549.1	3238.3
27.5°	4298.4	4242.7	4256.6	4140.6	4073.4	4145.3	4231.1	4312.3	4154.5	3813.6	3372.8
30°	4532.7	4474.7	4470.0	4465.4	4449.1	4532.7	4632.4	4706.6	4579.1	4078.0	3595.5
32.5°	4648.6	4662.6	4702.0	4688.1	4829.6	5001.2	5105.6	5212.3	5052.3	4509.5	3890.1
35°	4957.2	4869.0	4957.2	4966.4	5112.6	5476.8	5609.0	5864.2	5824.7	5119.5	4249.7
37.5°	5138.1	5131.1	5142.7	5230.9	5372.4	5822.4	6010.3	6207.5	6133.2	5486.0	4697.4
40°	5437.3	5455.9	5453.6	5520.8	5676.3	6082.2	6158.8	6318.8	6325.8	5994.1	5356.1
42.5°	5917.5	5843.3	5794.6	5864.2	6082.2	6307.2	6460.3	6427.8	6657.5	6611.1	6202.8
45°	6349.0	6393.0	6321.1	6437.1	6516.0	6636.6	6632.0	6701.6	6993.8	7214.2	6840.7
47.5°	6752.6	6780.4	6815.2	6894.1	7065.7	7084.3	7044.9	7014.7	7418.3	7645.7	7334.8
50°	6993.8	7019.4	7181.7	7323.2	7643.3	7685.1	7708.3	7631.8	7905.5	7931.0	7801.1
52.5°	6928.9	6956.7	7184.1	7650.3	8160.6	8543.4	8473.8	8343.9	8327.7	8427.4	8232.5
55°	6353.6	6328.1	6641.2	7367.3	8323.0	9241.6	9250.9	9114.0	8851.9	8784.6	8167.6
56°	5864.2	5764.4	6163.4	7040.2	8114.2	9181.3	9285.7	9139.5	8893.7	8592.1	7766.3
57.5°	4804.1	4899.2	5295.8	6021.9	7392.8	8747.5	8807.8	8773.0	8587.5	8081.8	6833.8
60°	2649.1	2816.1	3166.4	4054.8	5263.4	6713.2	6761.9	7044.9	7079.7	6188.9	4702.0
62.5°	1125.0	1106.5	1470.7	2124.8	2997.0	4052.5	4143.0	4432.9	4486.3	3567.7	2359.1
65°	457.0	482.5	665.7	1069.4	1584.3	1846.5	1974.0	2069.2	2245.5	1473.0	869.9
67.5°	301.6	299.2	392.0	610.1	853.6	823.5	823.5	869.9	804.9	600.8	375.8
70°	215.7	222.7	280.7	422.2	531.2	394.3	378.1	361.9	410.6	396.7	303.9
72.5°	141.5	150.8	187.9	252.8	276.0	215.7	215.7	259.8	338.7	320.1	248.2
75°	92.8	95.1	116.0	146.1	136.9	111.3	122.9	174.0	245.9	236.6	176.3
77.5°	62.6	65.0	78.9	95.1	76.5	62.6	67.3	88.1	120.6	120.6	92.8
80°	23.2	25.5	32.5	30.2	34.8	44.1	48.7	60.3	71.9	71.9	62.6
82.5°	0.0	2.3	7.0	16.2	25.5	34.8	39.4	46.4	53.4	60.3	58.0
85°	0.0	2.3	7.0	11.6	18.6	20.9	23.2	16.2	13.9	13.9	11.6
87.5°	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	4.6	2.3	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°	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3
2.5°	2433.3	2431.0	2431.0	2424.1	2438.0	2431.0	2435.7	2433.3	2403.2	2426.4	2410.1
5°	2458.9	2475.1	2449.6	2444.9	2426.4	2433.3	2433.3	2410.1	2431.0	2428.7	2424.1
7.5°	2523.8	2496.0	2468.1	2440.3	2435.7	2428.7	2403.2	2393.9	2410.1	2391.6	2419.4
10°	2551.6	2556.3	2514.5	2477.4	2442.6	2393.9	2359.1	2338.2	2312.7	2340.6	2356.8
12.5°	2679.2	2632.8	2560.9	2502.9	2384.6	2335.9	2301.1	2291.8	2335.9	2345.2	2329.0
15°	2723.3	2716.3	2623.6	2493.7	2370.7	2312.7	2319.7	2301.1	2305.8	2282.6	2287.2
17.5°	2813.8	2734.9	2625.9	2463.5	2368.4	2354.5	2312.7	2238.5	2196.7	2178.2	2194.4
20°	2913.5	2837.0	2679.2	2475.1	2389.3	2352.2	2215.3	2124.8	2039.0	1992.6	1994.9
22.5°	3001.7	2906.6	2656.0	2479.7	2407.8	2254.7	2090.0	1911.4	1804.7	1732.8	1735.1
25°	3108.4	2973.8	2665.3	2489.0	2359.1	2099.3	1862.7	1688.7	1561.1	1512.4	1528.7
27.5°	3168.7	3015.6	2716.3	2509.9	2231.5	1878.9	1623.8	1461.4	1387.2	1364.0	1361.7
30°	3349.6	3108.4	2779.0	2468.1	2018.1	1642.3	1405.7	1306.0	1234.1	1213.2	1217.8
32.5°	3618.7	3277.7	2860.2	2359.1	1800.1	1431.2	1264.2	1190.0	1122.7	1083.3	1078.7
35°	3843.7	3567.7	2946.0	2189.8	1547.2	1268.9	1164.5	1071.7	969.6	925.6	914.0
37.5°	4272.9	3894.7	2927.4	1934.6	1306.0	1148.2	1057.8	944.1	856.0	795.7	788.7
40°	4843.5	4277.5	2837.0	1623.8	1127.4	1041.5	944.1	835.1	726.1	675.0	670.4
42.5°	5537.1	4746.1	2672.3	1308.3	948.7	934.8	846.7	721.4	624.0	586.9	589.2
45°	6100.8	5147.4	2505.3	1050.8	816.5	830.4	753.9	635.6	568.3	538.2	538.2
47.5°	6601.8	5418.8	2324.3	867.6	693.6	726.1	658.8	589.2	531.2	508.0	503.4
50°	7084.3	5694.8	2143.4	702.9	591.5	624.0	617.0	561.4	515.0	487.1	489.5
52.5°	7385.9	5738.9	1913.7	575.3	517.3	554.4	577.6	526.6	475.5	459.3	454.7
55°	7017.0	5170.6	1484.6	473.2	438.4	487.1	531.2	473.2	433.8	405.9	403.6
56°	6520.6	4623.1	1241.0	436.1	415.2	468.6	515.0	452.3	408.3	392.0	380.4
57.5°	5520.8	3783.4	916.3	387.4	385.1	436.1	489.5	431.5	380.4	366.5	366.5
60°	3442.4	2129.5	554.4	324.8	334.0	387.4	440.7	385.1	338.7	338.7	345.6
62.5°	1568.1	886.1	336.4	276.0	287.6	334.0	392.0	348.0	322.4	348.0	352.6
65°	533.5	382.7	243.6	220.4	227.3	276.0	336.4	352.6	350.3	366.5	375.8
67.5°	299.2	245.9	204.1	183.3	178.6	204.1	276.0	352.6	338.7	331.7	336.4
70°	252.8	208.8	180.9	162.4	155.4	164.7	213.4	266.8	238.9	232.0	227.3
72.5°	204.1	174.0	157.7	146.1	125.3	106.7	97.4	102.1	113.7	120.6	132.2
75°	143.8	132.2	132.2	118.3	90.5	67.3	53.4	44.1	30.2	20.9	23.2
77.5°	81.2	81.2	83.5	71.9	58.0	44.1	32.5	23.2	11.6	4.6	2.3
80°	55.7	60.3	65.0	58.0	48.7	39.4	27.8	16.2	7.0	0.0	0.0
82.5°	55.7	62.6	67.3	58.0	48.7	37.1	27.8	16.2	7.0	2.3	0.0
85°	11.6	13.9	16.2	18.6	27.8	27.8	20.9	13.9	7.0	2.3	0.0
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	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)