

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: P527270

Luminaire Tested: **GALN-SA2B-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9035 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

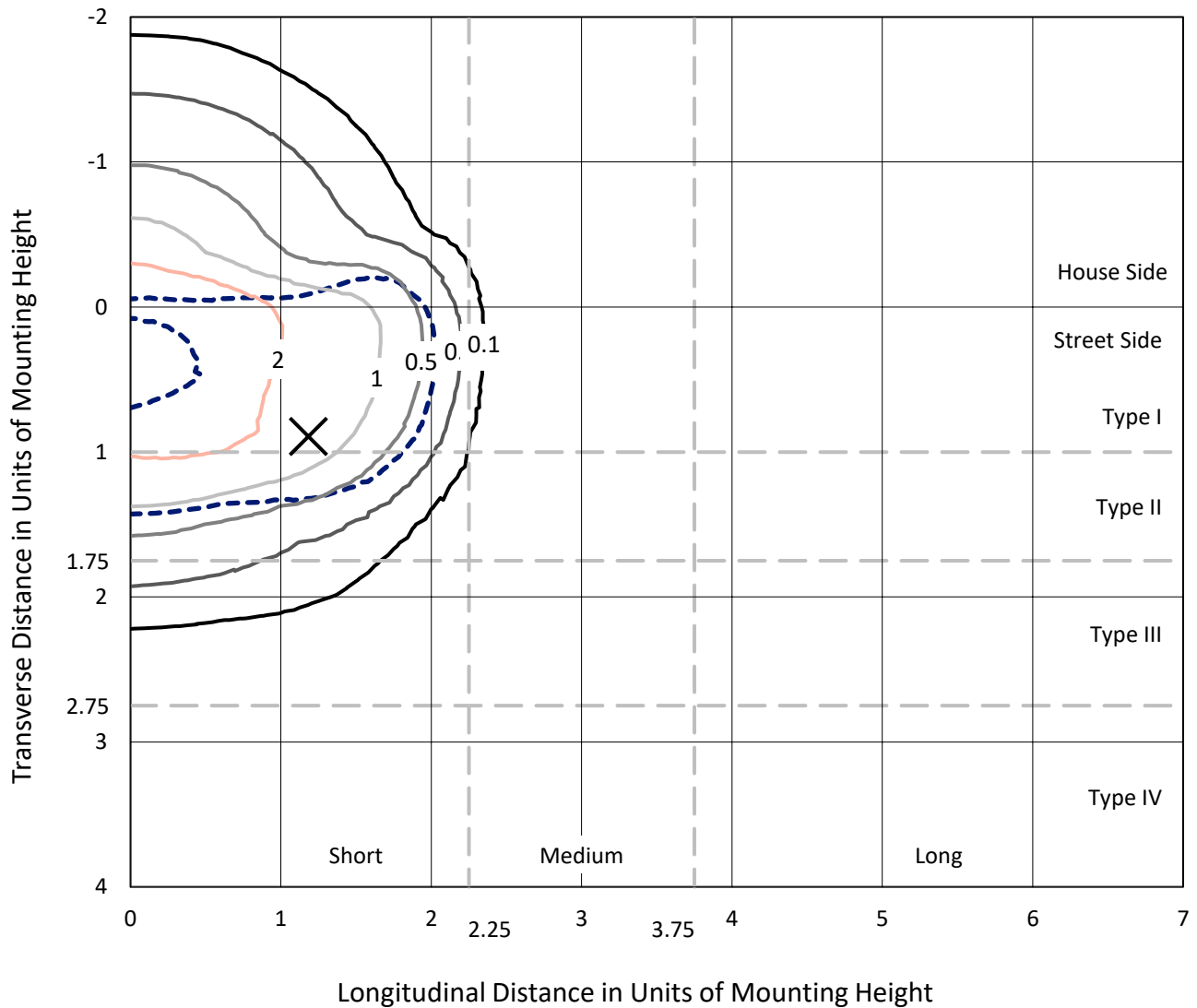
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

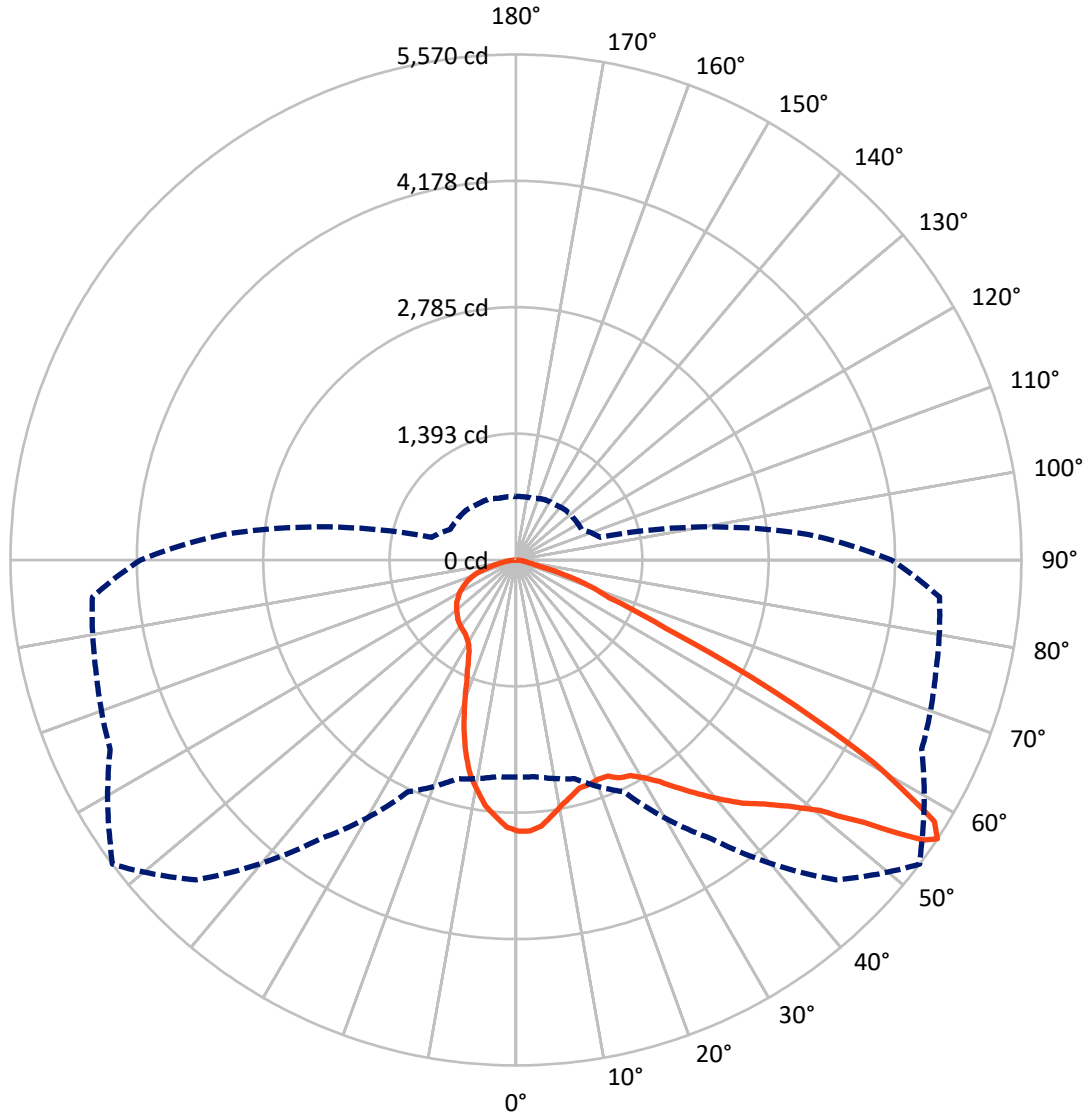
✕ Max cd
 - - - 1/2 Max cd



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 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2636.6	0.0	2636.6
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	6398.4	0.0	6398.4
	% Fixture	70.8	0.0	70.8
Total	Lumens	9035.0	0.0	9035.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.6	2.9
10°-20°	660.9	7.3
20°-30°	974.6	10.8
30°-40°	1392.5	15.4
40°-50°	1916.6	21.2
50°-60°	2264.9	25.1
60°-70°	1207.0	13.4
70°-80°	306.2	3.4
80°-90°	47.7	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°	9035.0	100.0
0°-180°	9035.0	100.0

Coefficient of Utilization



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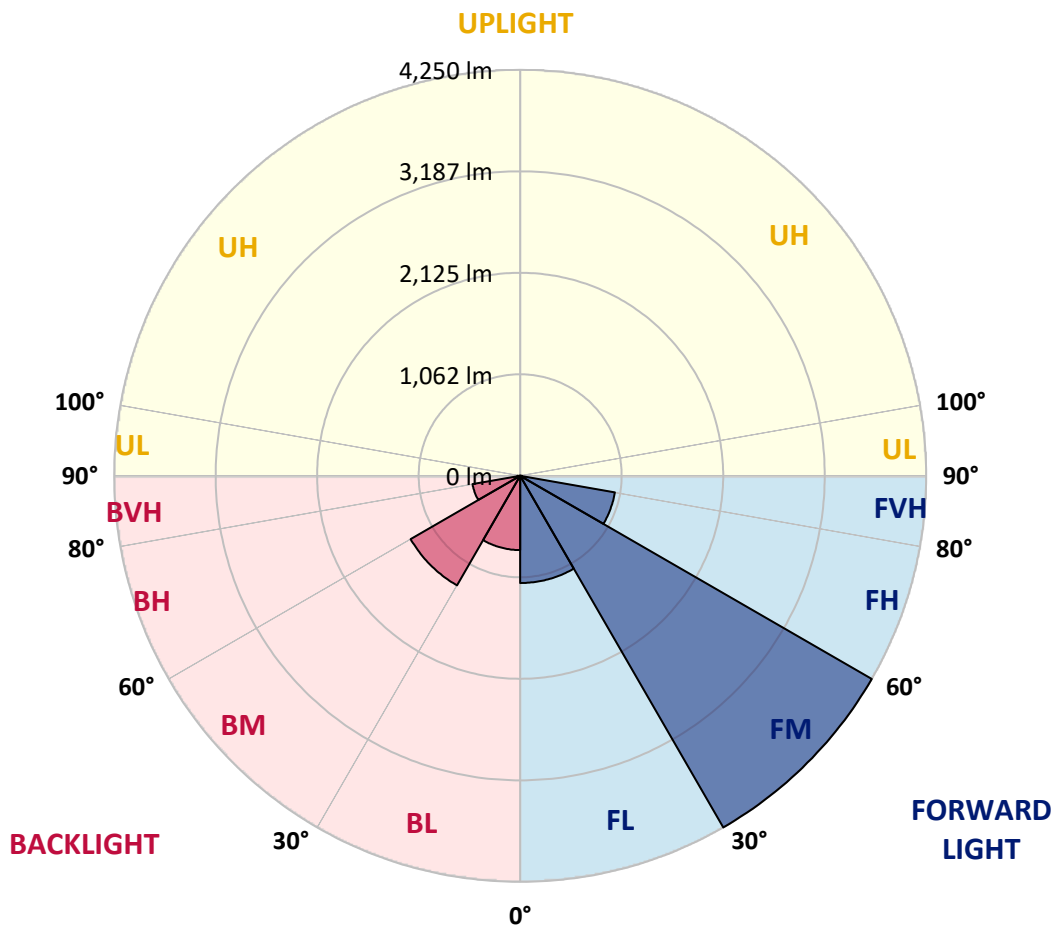
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1122.5	12.4			
FM (30°-60°)	4249.9	47.0			
FH (60°-80°)	1006.8	11.1			G1/1800
FVH (80°-90°)	19.2	0.2			G1/100
BL (0°-30°)	777.6	8.6	B2/1000		
BM (30°-60°)	1324.0	14.7	B2/2500		
BH (60°-80°)	506.4	5.6	B2/1000		G2/1000
BVH (80°-90°)	28.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2989.1	2989.1	2989.1	2989.1	2989.1	2989.1	2989.1	2989.1	2989.1	2989.1	2989.1
2.5°	2952.0	2926.5	2941.6	2935.8	2983.3	2997.2	2990.3	2996.1	3022.7	3010.0	2983.3
5°	2758.5	2794.4	2801.4	2818.8	2846.6	2901.0	2943.9	2955.5	2968.3	3027.4	3021.6
7.5°	2582.3	2606.7	2593.9	2644.9	2705.2	2793.3	2845.4	2854.7	2971.7	3004.2	3028.5
10°	2471.0	2446.7	2504.7	2518.6	2587.0	2687.8	2750.4	2788.6	2895.3	3023.9	3039.0
12.5°	2367.9	2359.8	2394.6	2434.0	2510.5	2614.8	2678.5	2693.6	2858.2	2993.8	3064.5
15°	2291.4	2282.1	2316.9	2345.9	2435.1	2527.8	2609.0	2651.9	2817.6	2976.4	3042.4
17.5°	2231.1	2230.0	2249.7	2301.8	2393.4	2471.0	2602.0	2604.3	2796.7	3003.0	3061.0
20°	2227.7	2226.5	2230.0	2287.9	2371.4	2466.4	2580.0	2600.9	2796.7	2984.5	3062.2
22.5°	2256.6	2238.1	2258.9	2296.0	2356.3	2474.5	2588.1	2634.5	2864.0	3076.1	3114.3
25°	2303.0	2307.6	2319.2	2332.0	2366.7	2493.1	2660.0	2698.2	2942.8	3154.9	3186.2
27.5°	2387.6	2385.3	2389.9	2396.9	2427.0	2510.5	2688.9	2787.5	3107.4	3295.1	3263.8
30°	2511.6	2503.5	2522.0	2546.4	2518.6	2566.1	2785.1	2859.3	3260.3	3436.5	3350.8
32.5°	2624.0	2654.2	2688.9	2699.4	2665.8	2675.0	2912.6	2988.0	3387.8	3610.4	3457.4
35°	2764.3	2788.6	2835.0	2867.4	2861.6	2833.8	3086.5	3186.2	3572.1	3737.9	3569.8
37.5°	2901.0	2930.0	3006.5	3102.7	3049.4	3036.7	3271.9	3354.2	3628.9	3806.2	3652.1
40°	3121.3	3120.1	3252.2	3302.1	3349.6	3327.6	3464.3	3492.2	3659.1	3791.2	3654.4
42.5°	3379.7	3363.5	3497.9	3575.6	3637.0	3639.3	3664.8	3655.6	3673.0	3714.7	3630.1
45°	3625.4	3660.2	3795.8	3934.9	3996.3	4003.3	3834.1	3816.7	3697.3	3692.7	3583.7
47.5°	3925.6	3933.7	4045.0	4228.1	4370.7	4322.0	4053.1	4014.9	3803.9	3839.9	3661.4
50°	3943.0	4003.3	4103.0	4318.5	4756.7	4743.9	4337.1	4265.2	3975.5	4048.5	3878.1
52.5°	3579.1	3565.2	3683.4	4035.7	4727.7	5163.5	4807.6	4636.1	4344.0	4288.4	4229.3
55°	2727.2	2759.6	2864.0	3219.8	4105.3	5169.3	5448.6	5308.3	4738.1	4643.1	4574.7
56°	2392.2	2396.9	2495.4	2819.9	3746.0	4985.0	5570.3	5456.7	4934.0	4789.1	4684.8
57.5°	1983.1	1956.4	2007.4	2184.8	3161.8	4595.5	5437.0	5548.3	5163.5	4946.7	4801.9
60°	1561.2	1555.4	1534.6	1567.0	1998.2	3462.0	4526.0	4776.4	5140.3	4798.4	4599.0
62.5°	1274.9	1246.0	1287.7	1334.0	1388.5	2147.7	3180.4	3327.6	4080.9	3830.6	3455.1
65°	988.7	974.7	1026.9	1177.6	1210.0	1364.2	1811.6	1925.1	2409.6	2366.7	2083.9
67.5°	680.3	682.7	727.9	957.4	1121.9	1108.0	1109.2	1168.3	1257.5	934.2	813.6
70°	431.2	430.0	454.3	616.6	902.9	912.2	865.8	848.4	804.4	486.8	515.8
72.5°	277.0	268.9	281.6	340.8	467.1	540.1	556.3	566.8	465.9	382.5	414.9
75°	156.5	148.4	143.7	158.8	184.3	213.3	234.1	241.1	270.1	289.8	307.1
77.5°	47.5	42.9	52.2	69.5	91.6	122.9	149.5	154.2	182.0	205.1	222.5
80°	20.9	23.2	32.5	46.4	64.9	86.9	105.5	112.4	131.0	148.4	153.0
82.5°	12.7	13.9	22.0	31.3	45.2	61.4	75.3	77.7	96.2	110.1	113.6
85°	4.6	5.8	11.6	18.5	29.0	39.4	39.4	42.9	39.4	39.4	42.9
87.5°	0.0	0.0	1.2	2.3	2.3	3.5	4.6	4.6	5.8	7.0	8.1
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°	2989.1	2989.1	2989.1	2989.1	2989.1	2989.1	2989.1	2989.1	2989.1	2989.1	2989.1
2.5°	2997.2	2991.5	2982.2	2948.6	2945.1	2934.7	2876.7	2867.4	2876.7	2848.9	2851.2
5°	2991.5	3008.8	2939.3	2905.7	2843.1	2797.9	2745.7	2719.1	2671.6	2641.4	2675.0
7.5°	3017.0	3010.0	2923.1	2850.1	2756.2	2641.4	2549.9	2497.7	2414.3	2391.1	2408.5
10°	3007.7	2970.6	2868.6	2772.4	2595.1	2494.2	2345.9	2202.2	2123.3	2082.8	2077.0
12.5°	2994.9	2984.5	2814.1	2648.4	2461.8	2249.7	2041.0	1905.4	1776.8	1721.2	1729.3
15°	3010.0	2921.9	2712.1	2502.3	2254.3	1976.1	1751.3	1576.3	1487.0	1451.1	1451.1
17.5°	3003.0	2891.8	2663.4	2338.9	2024.8	1695.7	1448.8	1343.3	1306.2	1306.2	1316.7
20°	3006.5	2911.5	2564.9	2175.5	1753.6	1427.9	1248.3	1210.0	1226.3	1232.0	1237.8
22.5°	3026.2	2846.6	2468.7	1995.8	1502.1	1221.6	1133.5	1134.7	1163.7	1195.0	1189.2
25°	3050.6	2821.1	2351.7	1817.4	1309.7	1120.8	1093.0	1089.5	1111.5	1127.7	1130.1
27.5°	3029.7	2777.0	2232.3	1594.8	1152.1	1053.6	1047.8	1050.1	1057.0	1089.5	1079.1
30°	3098.1	2789.8	2082.8	1408.2	1065.1	1031.5	1024.6	1021.1	1031.5	1040.8	1032.7
32.5°	3182.7	2744.6	1971.5	1228.6	1022.3	1015.3	1001.4	996.8	1002.6	993.3	997.9
35°	3219.8	2736.5	1826.6	1099.9	988.7	982.9	974.7	973.6	974.7	966.6	959.7
37.5°	3240.6	2774.7	1660.9	1040.8	967.8	973.6	955.0	952.7	931.9	936.5	940.0
40°	3276.6	2715.6	1526.4	984.0	955.0	943.4	927.2	923.7	909.8	901.7	909.8
42.5°	3224.4	2698.2	1394.3	959.7	936.5	923.7	912.2	892.5	887.8	880.9	876.2
45°	3182.7	2598.5	1276.1	929.5	914.5	907.5	885.5	864.6	847.2	854.2	843.8
47.5°	3214.0	2563.8	1159.0	904.0	884.3	876.2	854.2	838.0	820.6	812.5	810.2
50°	3339.2	2628.7	1060.5	885.5	858.8	854.2	825.2	806.7	790.5	784.7	787.0
52.5°	3638.2	2806.0	993.3	847.2	834.5	813.6	797.4	774.2	763.8	745.3	756.8
55°	4017.2	3094.6	975.9	811.3	804.4	785.8	763.8	746.4	726.7	711.6	708.2
56°	4138.9	3232.5	962.0	797.4	785.8	775.4	746.4	736.0	704.7	701.2	698.9
57.5°	4237.4	3354.2	964.3	770.8	759.2	749.9	732.5	707.0	686.1	673.4	679.2
60°	4014.9	3139.8	920.3	730.2	727.9	710.5	686.1	674.6	649.1	634.0	630.5
62.5°	2984.5	2131.5	746.4	678.0	676.9	658.3	630.5	617.8	613.1	592.3	592.3
65°	1718.8	1336.4	645.6	635.1	625.9	607.3	579.5	569.1	557.5	550.5	544.7
67.5°	733.7	693.1	586.5	585.3	574.9	551.7	523.9	507.7	492.6	478.7	485.6
70°	532.0	540.1	529.7	523.9	511.1	482.2	457.8	438.1	414.9	405.7	412.6
72.5°	421.9	439.3	454.3	455.5	440.4	406.8	380.2	353.5	328.0	315.3	321.1
75°	319.9	331.5	346.5	350.0	328.0	304.8	279.3	251.5	231.8	216.7	219.1
77.5°	230.6	228.3	242.2	239.9	229.5	213.3	190.1	164.6	142.6	128.7	129.8
80°	157.6	161.1	169.2	168.1	155.3	144.9	127.5	106.6	90.4	78.8	76.5
82.5°	110.1	115.9	122.9	117.1	106.6	96.2	83.5	68.4	55.6	46.4	44.0
85°	39.4	45.2	52.2	55.6	59.1	56.8	47.5	38.2	27.8	23.2	22.0
87.5°	8.1	9.3	10.4	10.4	10.4	9.3	8.1	8.1	7.0	3.5	3.5
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)