

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: P527750

Luminaire Tested: **GALN-SA2D-735-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12356 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

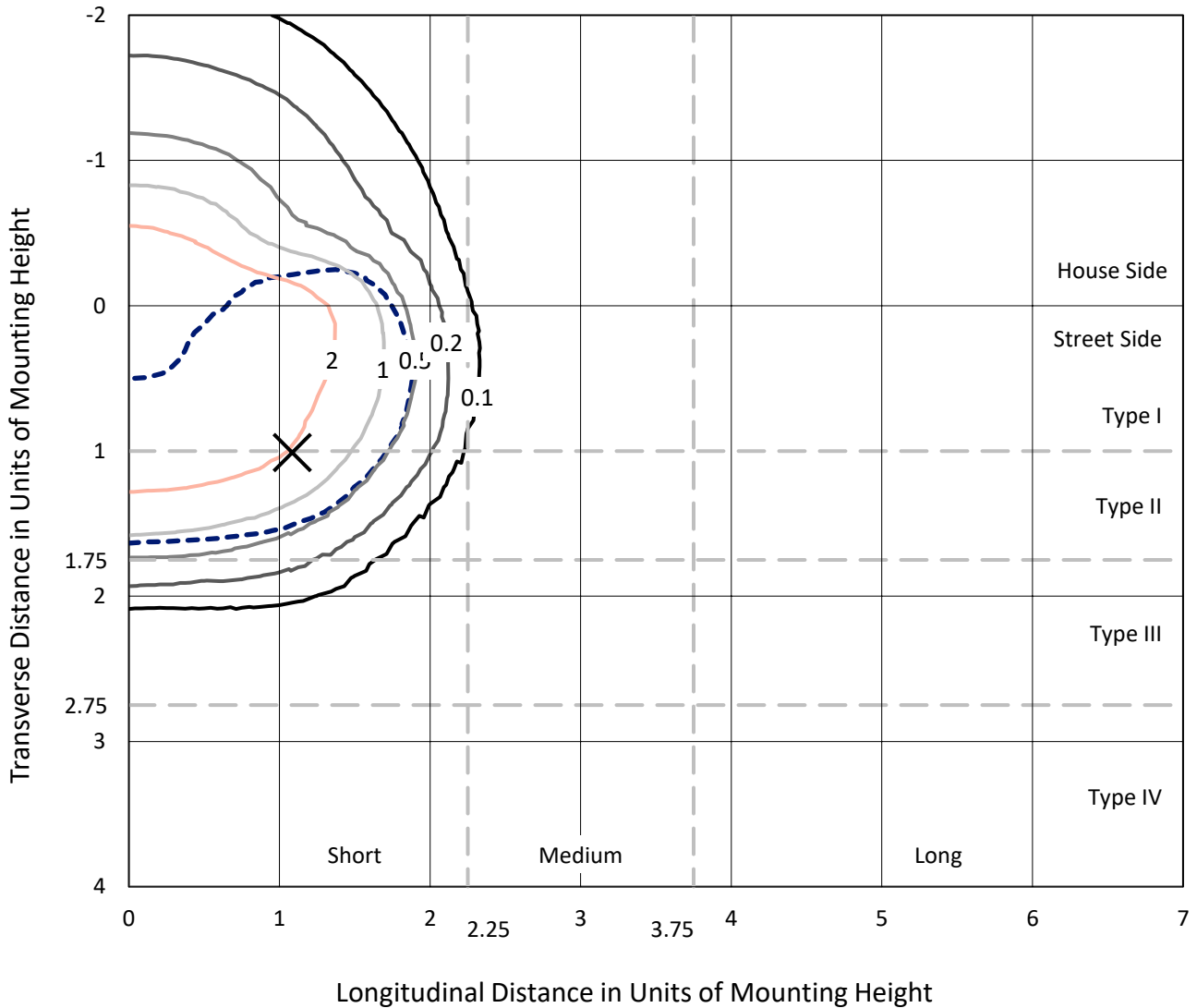
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

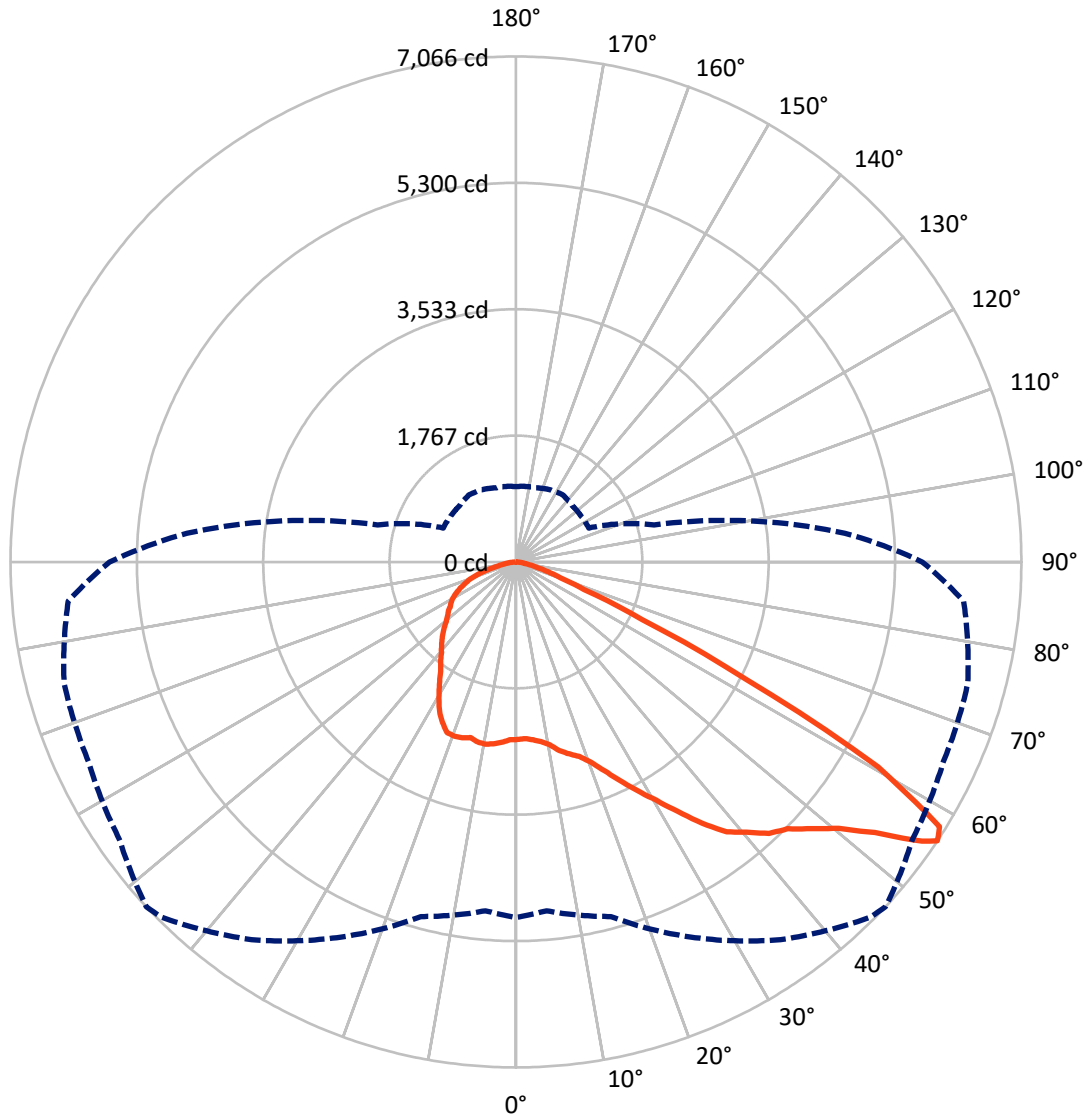
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3915.5	0.0	3915.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	8440.5	0.0	8440.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	12356.0	0.0	12356.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.8	2.0
10°-20°	762.9	6.2
20°-30°	1348.6	10.9
30°-40°	2025.5	16.4
40°-50°	2779.8	22.5
50°-60°	3311.7	26.8
60°-70°	1417.2	11.5
70°-80°	401.1	3.2
80°-90°	67.5	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°	12356.0	100.0
0°-180°	12356.0	100.0



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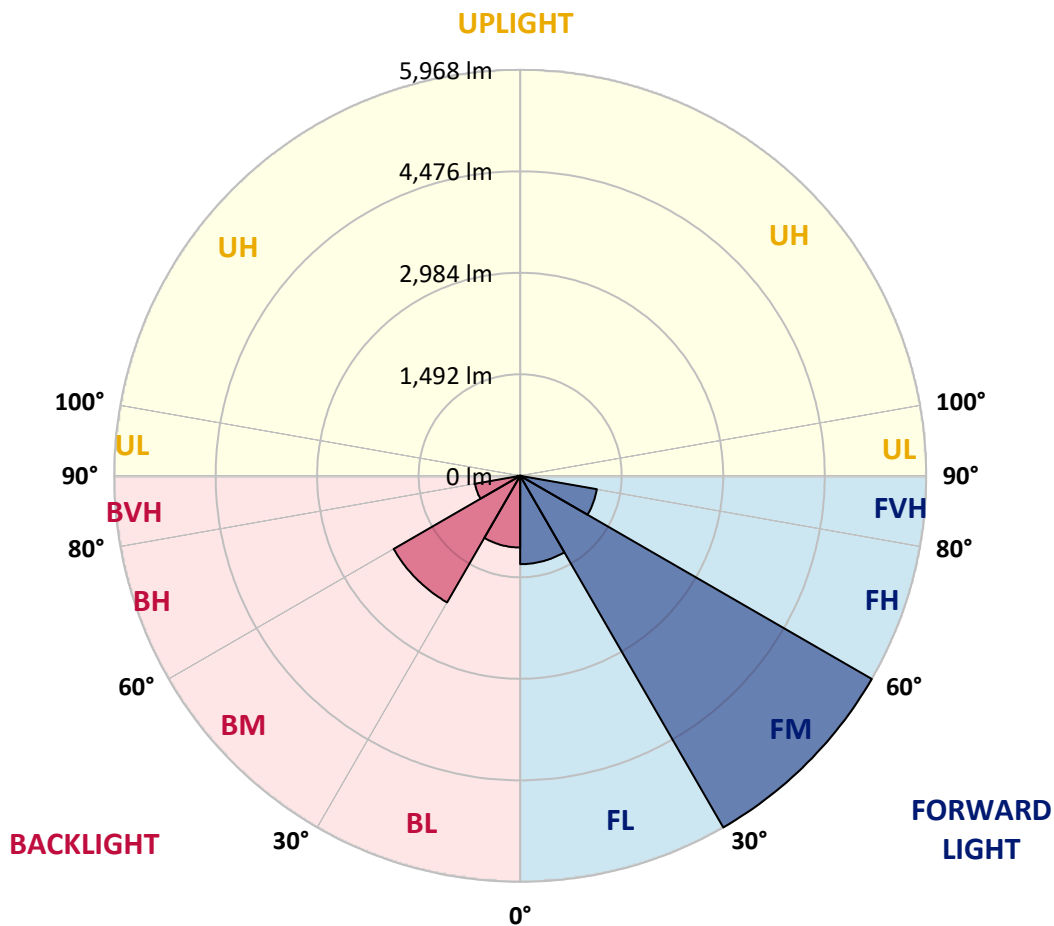
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1299.0	10.5			
FM (30°-60°)	5968.2	48.3			
FH (60°-80°)	1144.6	9.3			G1/1800
FVH (80°-90°)	28.6	0.2			G1/100
BL (0°-30°)	1054.2	8.5	B3/2500		
BM (30°-60°)	2148.7	17.4	B2/2500		
BH (60°-80°)	673.7	5.5	B2/1000		G2/1000
BVH (80°-90°)	38.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9
2.5°	2472.5	2467.8	2464.6	2489.8	2480.4	2481.9	2472.5	2481.9	2488.2	2474.1	2494.6
5°	2467.8	2481.9	2469.3	2477.2	2497.7	2491.4	2497.7	2516.6	2511.9	2507.2	2500.9
7.5°	2511.9	2513.5	2522.9	2526.1	2532.4	2526.1	2535.5	2552.9	2548.1	2521.3	2524.5
10°	2574.9	2578.1	2579.6	2597.0	2608.0	2609.6	2598.6	2582.8	2581.2	2617.5	2592.3
12.5°	2647.4	2639.5	2658.4	2664.7	2677.3	2691.5	2705.7	2672.6	2693.1	2694.7	2664.7
15°	2753.0	2760.9	2738.8	2738.8	2743.5	2745.1	2784.5	2768.7	2765.6	2748.3	2760.9
17.5°	2910.6	2857.0	2855.4	2833.4	2830.2	2842.8	2857.0	2869.6	2912.1	2877.5	2809.7
20°	3025.6	3038.2	2992.5	2965.7	2970.5	2998.8	2984.6	3041.4	3071.3	3014.6	2948.4
22.5°	3228.9	3186.3	3197.4	3137.5	3142.2	3172.2	3170.6	3228.9	3246.2	3156.4	3060.3
25°	3366.0	3355.0	3364.4	3317.1	3323.4	3347.1	3384.9	3481.0	3452.7	3353.4	3131.2
27.5°	3566.1	3544.1	3536.2	3518.8	3512.5	3575.6	3619.7	3722.1	3701.6	3556.7	3257.3
30°	3771.0	3756.8	3764.7	3693.8	3719.0	3852.9	3865.5	4005.8	3996.3	3741.0	3397.5
32.5°	3912.8	3920.7	3934.9	3895.5	4007.4	4114.5	4157.1	4316.2	4324.1	4057.8	3668.6
35°	4141.3	4114.5	4122.4	4168.1	4220.1	4415.5	4484.8	4590.4	4656.6	4390.3	3928.6
37.5°	4284.7	4313.1	4280.0	4352.5	4488.0	4722.8	4785.8	4894.6	4963.9	4718.1	4283.1
40°	4508.5	4462.8	4486.4	4538.4	4677.1	4982.8	4965.5	5077.4	5099.4	4997.0	4614.1
42.5°	4749.6	4727.5	4694.4	4812.6	4929.2	5151.4	5186.1	5134.1	5246.0	5269.6	5086.8
45°	5038.0	5064.7	5069.5	5072.6	5175.1	5368.9	5321.6	5275.9	5405.1	5576.9	5379.9
47.5°	5305.8	5220.8	5282.2	5367.3	5512.3	5513.9	5569.0	5460.3	5597.4	5750.2	5644.7
50°	5395.7	5354.7	5436.6	5597.4	5821.1	5844.8	5851.1	5696.7	5767.6	5888.9	5736.1
52.5°	5361.0	5346.8	5556.4	5805.4	6133.2	6252.9	6284.4	6093.8	6133.2	6078.0	5937.8
55°	5195.5	5238.1	5449.2	5956.7	6459.4	6829.7	6889.6	6648.5	6397.9	6440.5	6286.0
56°	4968.6	4894.6	5130.9	5784.9	6445.2	7017.2	7066.1	6765.1	6594.9	6539.7	6282.9
57.5°	4215.4	4119.2	4429.7	5205.0	6087.5	6946.3	6982.5	6813.9	6561.8	6449.9	5824.3
60°	2467.8	2515.0	2909.0	3589.8	4696.0	5695.1	5816.4	5939.3	5770.7	5269.6	4335.1
62.5°	1191.3	1161.4	1443.5	2058.0	2861.7	3635.5	3599.2	3944.3	4133.4	3744.2	2737.2
65°	624.0	620.9	787.9	1123.6	1572.7	1909.9	1943.0	2129.0	2389.0	1928.8	1389.9
67.5°	458.6	471.2	554.7	789.5	1011.7	1032.2	1027.4	1120.4	1145.6	969.1	854.1
70°	359.3	365.6	427.1	600.4	753.3	674.5	660.3	671.3	745.4	776.9	739.1
72.5°	260.0	266.3	318.3	405.0	471.2	460.1	469.6	531.1	622.5	655.5	616.2
75°	173.3	178.1	206.4	247.4	278.9	301.0	318.3	389.2	474.3	493.2	474.3
77.5°	119.8	124.5	143.4	174.9	178.1	192.3	198.6	231.6	283.7	307.3	294.7
80°	67.8	67.8	77.2	89.8	110.3	129.2	132.4	159.2	182.8	198.6	201.7
82.5°	31.5	33.1	41.0	55.2	72.5	89.8	93.0	110.3	127.6	143.4	148.1
85°	15.8	17.3	23.6	33.1	44.1	53.6	52.0	53.6	56.7	53.6	55.2
87.5°	4.7	4.7	6.3	7.9	6.3	7.9	7.9	9.5	11.0	12.6	14.2
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°	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9	2481.9
2.5°	2496.1	2500.9	2469.3	2499.3	2488.2	2486.7	2508.7	2505.6	2513.5	2510.3	2491.4
5°	2497.7	2486.7	2519.8	2489.8	2504.0	2533.9	2513.5	2560.7	2537.1	2552.9	2518.2
7.5°	2546.6	2549.7	2543.4	2556.0	2549.7	2563.9	2552.9	2563.9	2545.0	2546.6	2578.1
10°	2589.1	2579.6	2590.7	2574.9	2586.0	2581.2	2556.0	2548.1	2554.4	2546.6	2567.0
12.5°	2667.9	2650.6	2642.7	2623.8	2611.2	2563.9	2524.5	2502.4	2532.4	2537.1	2527.6
15°	2748.3	2749.8	2713.6	2671.0	2592.3	2521.3	2530.8	2538.7	2538.7	2551.3	2527.6
17.5°	2798.7	2798.7	2765.6	2680.5	2600.1	2559.2	2549.7	2524.5	2502.4	2499.3	2497.7
20°	2886.9	2860.1	2784.5	2678.9	2597.0	2578.1	2507.2	2447.3	2401.6	2385.8	2384.2
22.5°	2987.8	2920.0	2814.4	2682.1	2592.3	2565.5	2433.1	2343.3	2261.3	2226.7	2231.4
25°	3080.8	2972.0	2831.8	2667.9	2574.9	2445.7	2297.6	2173.1	2088.0	2059.6	2045.4
27.5°	3145.4	3027.2	2831.8	2680.5	2510.3	2311.8	2160.5	2001.3	1927.2	1908.3	1911.5
30°	3232.0	3096.5	2880.6	2653.7	2381.1	2138.4	1957.2	1853.2	1809.1	1793.3	1804.3
32.5°	3435.3	3277.7	2948.4	2589.1	2228.2	1965.1	1818.5	1760.2	1695.6	1664.1	1653.1
35°	3655.9	3449.5	3014.6	2480.4	2056.5	1807.5	1716.1	1662.5	1585.3	1550.6	1556.9
37.5°	3968.0	3670.1	3019.3	2300.7	1870.5	1719.2	1635.7	1552.2	1489.2	1435.6	1419.8
40°	4388.7	3971.1	3008.3	2111.6	1720.8	1615.2	1553.8	1449.8	1378.9	1341.0	1348.9
42.5°	4759.0	4324.1	2962.6	1897.3	1585.3	1544.3	1475.0	1372.6	1303.2	1263.8	1260.7
45°	5071.0	4584.1	2875.9	1714.5	1471.8	1465.5	1385.2	1306.4	1251.2	1215.0	1230.7
47.5°	5359.4	4793.7	2745.1	1531.7	1367.8	1380.4	1303.2	1254.4	1219.7	1186.6	1185.0
50°	5463.4	4790.5	2630.1	1380.4	1284.3	1278.0	1274.9	1222.9	1186.6	1158.2	1170.8
52.5°	5636.8	4844.1	2505.6	1276.4	1208.7	1210.2	1221.3	1183.5	1142.5	1125.1	1140.9
55°	5885.8	4852.0	2231.4	1155.1	1145.6	1156.7	1156.7	1131.5	1096.8	1082.6	1074.7
56°	5682.5	4617.2	2001.3	1123.6	1114.1	1114.1	1144.1	1115.7	1073.1	1062.1	1052.7
57.5°	5241.2	4045.2	1675.1	1085.8	1071.6	1093.6	1109.4	1079.4	1040.1	1024.3	1033.7
60°	3615.0	2737.2	1259.1	1003.8	1003.8	1040.1	1052.7	1008.5	991.2	989.6	977.0
62.5°	2110.0	1594.7	984.9	929.7	932.9	962.8	972.3	947.1	925.0	951.8	964.4
65°	1118.8	951.8	844.6	851.0	852.5	876.2	917.1	915.6	914.0	921.9	923.4
67.5°	810.0	791.1	767.4	761.1	764.3	781.6	822.6	854.1	852.5	833.6	819.4
70°	721.7	694.9	680.8	682.3	669.7	690.2	723.3	743.8	707.6	685.5	676.0
72.5°	600.4	592.5	583.1	584.6	559.4	554.7	516.9	516.9	507.4	501.1	512.1
75°	458.6	455.4	460.1	452.3	425.5	397.1	375.0	354.6	323.0	310.4	304.1
77.5°	290.0	299.4	310.4	293.1	282.1	261.6	239.5	219.0	193.8	179.6	179.6
80°	197.0	204.9	212.7	209.6	197.0	178.1	160.7	138.7	121.3	110.3	108.7
82.5°	149.7	156.0	167.0	154.4	141.8	126.1	111.9	96.1	80.4	67.8	67.8
85°	53.6	61.5	67.8	74.1	78.8	80.4	69.3	56.7	45.7	36.2	34.7
87.5°	14.2	15.8	17.3	15.8	15.8	15.8	17.3	15.8	14.2	11.0	11.0
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)