

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: P647820

Luminaire Tested: **GALN-SA3A-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647820
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-SA3A-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA 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: 9060.1 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

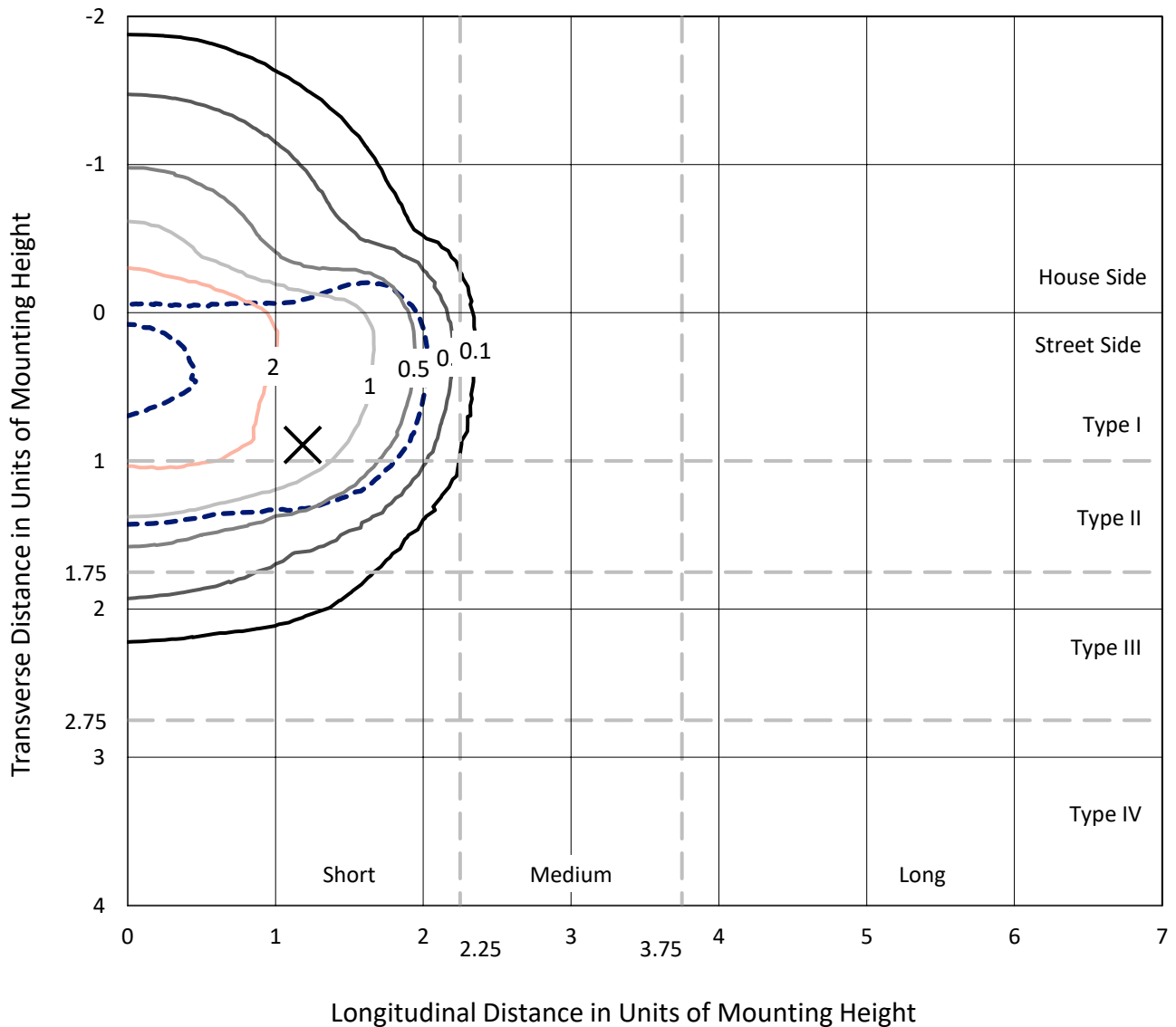
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

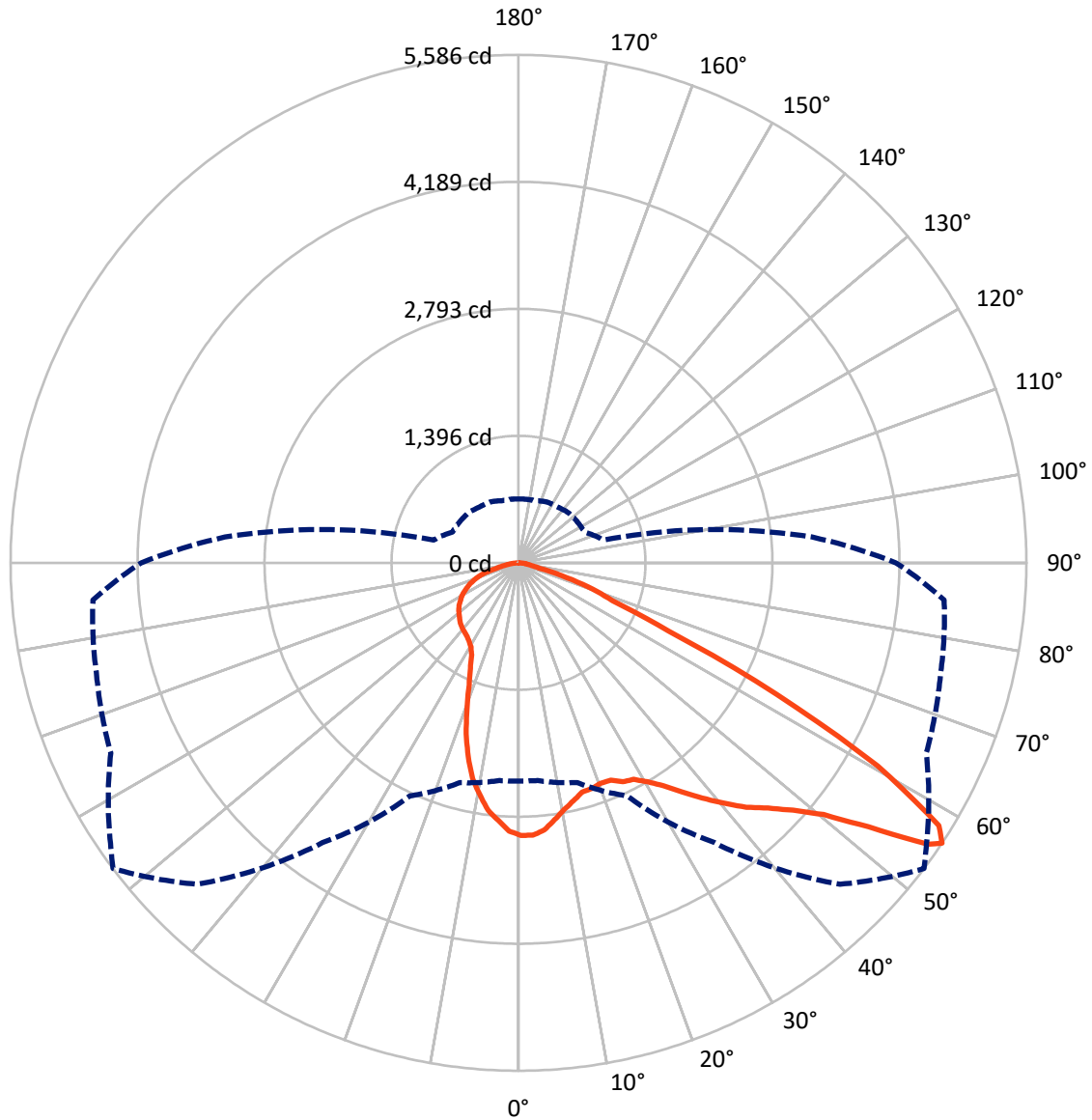
✕ Max cd
 - - - 1/2 Max cd



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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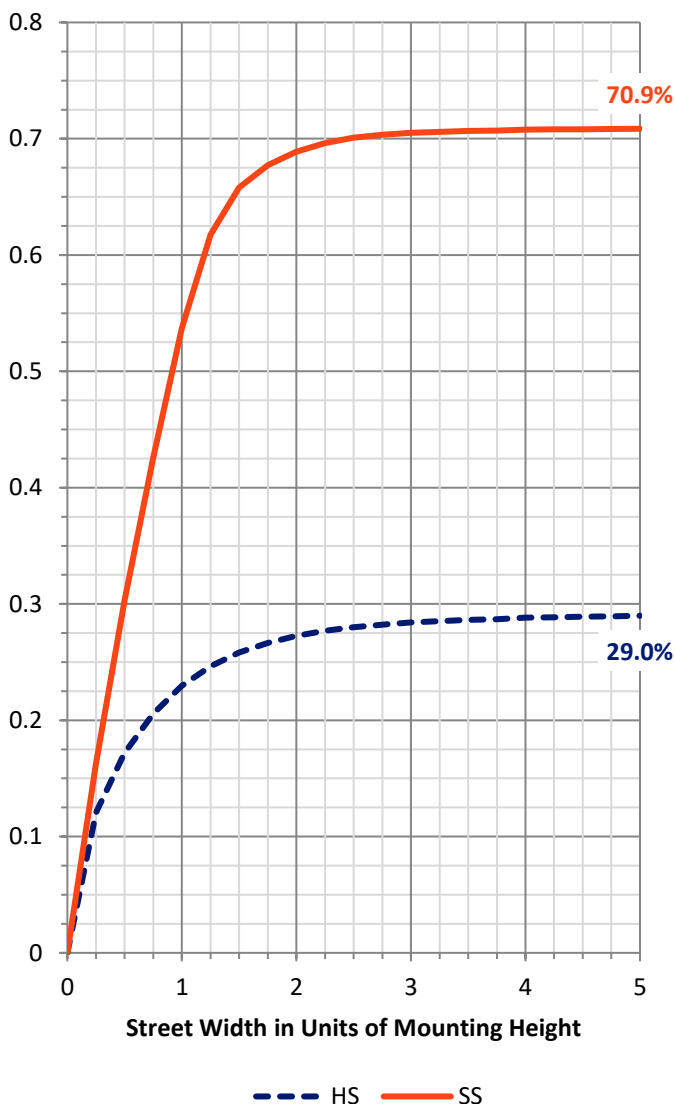
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2643.9	0.0	2643.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	6416.2	0.0	6416.2
	% Fixture	70.8	0.0	70.8
Total	Lumens	9060.1	0.0	9060.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.4	2.9
10°-20°	662.8	7.3
20°-30°	977.3	10.8
30°-40°	1396.3	15.4
40°-50°	1921.9	21.2
50°-60°	2271.1	25.1
60°-70°	1210.4	13.4
70°-80°	307.1	3.4
80°-90°	47.9	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°	9060.1	100.0
0°-180°	9060.1	100.0

Coefficient of Utilization

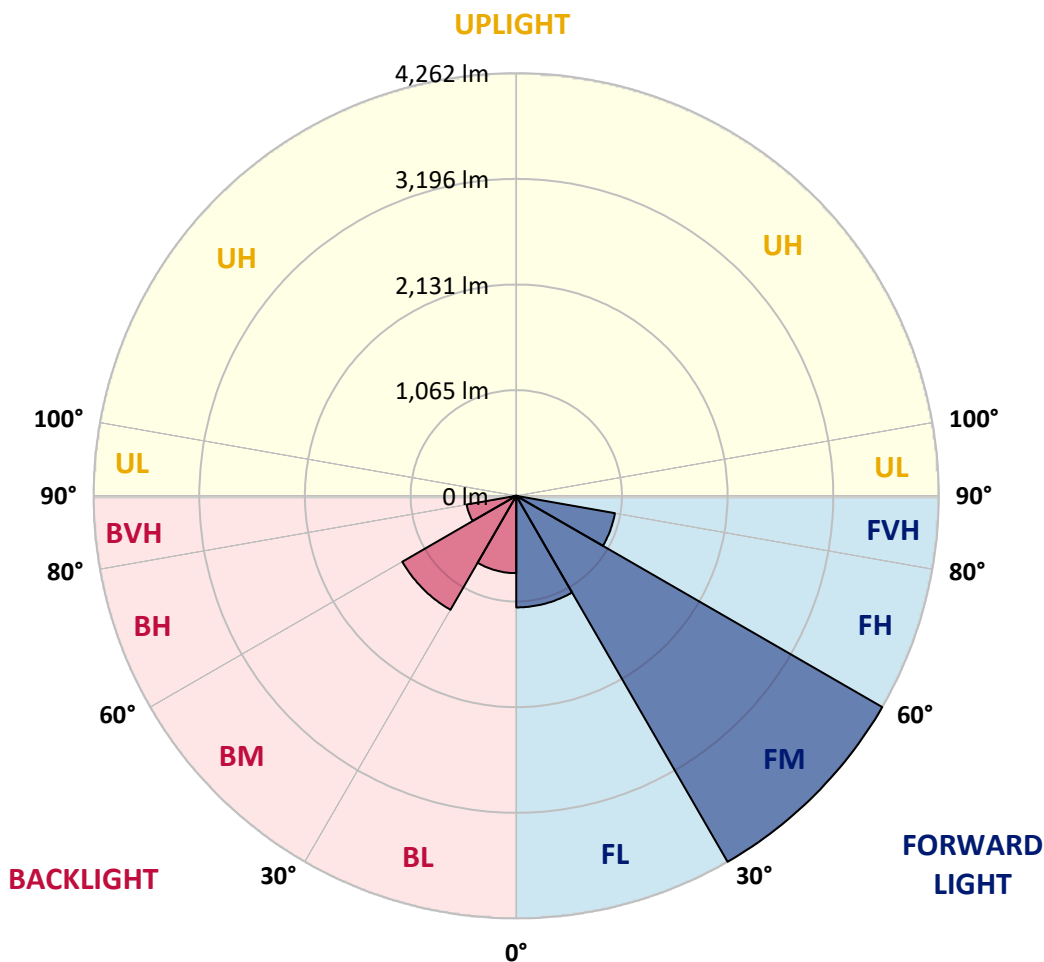


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1125.6	12.4			
FM (30°-60°)	4261.7	47.0			
FH (60°-80°)	1009.6	11.1			G1/1800
FVH (80°-90°)	19.2	0.2			G1/100
BL (0°-30°)	779.8	8.6	B2/1000		
BM (30°-60°)	1327.7	14.7	B2/2500		
BH (60°-80°)	507.8	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°	2997.4	2997.4	2997.4	2997.4	2997.4	2997.4	2997.4	2997.4	2997.4	2997.4	2997.4
2.5°	2960.2	2934.7	2949.8	2944.0	2991.6	3005.5	2998.6	3004.4	3031.1	3018.4	2991.6
5°	2766.2	2802.2	2809.2	2826.6	2854.5	2909.1	2952.1	2963.7	2976.5	3035.8	3030.0
7.5°	2589.5	2613.9	2601.1	2652.3	2712.7	2801.0	2853.3	2862.6	2980.0	3012.5	3036.9
10°	2477.9	2453.5	2511.6	2525.6	2594.2	2695.2	2758.0	2796.3	2903.3	3032.3	3047.4
12.5°	2374.4	2366.3	2401.2	2440.7	2517.4	2622.0	2685.9	2701.0	2866.1	3002.1	3073.0
15°	2297.8	2288.5	2323.3	2352.4	2441.9	2534.9	2616.2	2659.2	2825.5	2984.6	3050.9
17.5°	2237.3	2236.2	2255.9	2308.2	2400.1	2477.9	2609.3	2611.5	2804.5	3011.4	3069.5
20°	2233.8	2232.6	2236.2	2294.3	2378.0	2473.3	2587.2	2608.1	2804.5	2992.8	3070.7
22.5°	2262.9	2244.3	2265.2	2302.4	2362.9	2481.4	2595.3	2641.8	2871.9	3084.6	3123.0
25°	2309.4	2314.0	2325.7	2338.4	2373.3	2500.0	2667.4	2705.7	2951.0	3163.6	3195.0
27.5°	2394.3	2391.9	2396.5	2403.5	2433.7	2517.4	2696.4	2795.2	3115.9	3304.3	3272.9
30°	2518.6	2510.5	2529.0	2553.4	2525.6	2573.3	2792.9	2867.3	3269.4	3446.1	3360.1
32.5°	2631.3	2661.6	2696.4	2706.9	2673.2	2682.5	2920.7	2996.3	3397.3	3620.4	3467.0
35°	2772.0	2796.3	2842.8	2875.4	2869.6	2841.7	3095.0	3195.0	3582.1	3748.2	3579.7
37.5°	2909.1	2938.1	3014.9	3111.3	3057.8	3045.1	3281.0	3363.5	3639.0	3816.8	3662.2
40°	3130.0	3128.8	3261.3	3311.2	3358.9	3336.8	3473.9	3501.9	3669.2	3801.7	3664.6
42.5°	3389.1	3372.9	3507.7	3585.5	3647.1	3649.5	3675.0	3665.7	3683.2	3725.0	3640.2
45°	3635.5	3670.4	3806.4	3945.9	4007.4	4014.4	3844.7	3827.3	3707.6	3702.9	3593.7
47.5°	3936.5	3944.7	4056.3	4239.9	4382.8	4334.0	4064.4	4026.0	3814.5	3850.6	3671.6
50°	3954.0	4014.4	4114.4	4330.5	4769.9	4757.1	4349.1	4277.1	3986.5	4059.7	3888.8
52.5°	3589.0	3575.1	3693.6	4046.9	4740.8	5177.8	4821.0	4649.0	4356.1	4300.3	4241.0
55°	2734.8	2767.3	2871.9	3228.7	4116.7	5183.6	5463.7	5323.1	4751.2	4656.0	4587.4
56°	2398.9	2403.5	2502.3	2827.7	3756.4	4998.8	5585.8	5471.8	4947.7	4802.4	4697.8
57.5°	1988.6	1961.9	2013.0	2190.8	3170.6	4608.3	5452.1	5563.7	5177.8	4960.5	4815.2
60°	1565.5	1559.7	1538.8	1571.3	2003.7	3471.7	4538.6	4789.6	5154.6	4811.7	4611.8
62.5°	1278.5	1249.4	1291.2	1337.8	1392.4	2153.6	3189.2	3336.8	4092.3	3841.2	3464.7
65°	991.4	977.4	1029.7	1180.8	1213.4	1368.0	1816.6	1930.5	2416.3	2373.3	2089.7
67.5°	682.2	684.6	729.9	960.0	1125.1	1111.1	1112.3	1171.5	1261.0	936.8	815.9
70°	432.4	431.2	455.6	618.3	905.4	914.7	868.2	850.7	806.6	488.1	517.2
72.5°	277.8	269.7	282.4	341.7	468.4	541.6	557.9	568.3	467.2	383.5	416.1
75°	156.9	148.8	144.2	159.3	184.8	213.8	234.7	241.7	270.8	290.6	308.0
77.5°	47.7	43.0	52.3	69.8	91.8	123.2	149.9	154.6	182.4	205.7	223.2
80°	20.9	23.3	32.6	46.5	65.1	87.1	105.8	112.8	131.3	148.8	153.4
82.5°	12.8	13.9	22.1	31.4	45.3	61.6	75.6	77.9	96.5	110.4	113.9
85°	4.6	5.8	11.6	18.6	29.0	39.5	39.5	43.0	39.5	39.5	43.0
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°	2997.4	2997.4	2997.4	2997.4	2997.4	2997.4	2997.4	2997.4	2997.4	2997.4	2997.4
2.5°	3005.5	2999.8	2990.4	2956.8	2953.2	2942.8	2884.7	2875.4	2884.7	2856.8	2859.1
5°	2999.8	3017.2	2947.4	2913.8	2851.0	2805.6	2753.3	2726.6	2679.0	2648.7	2682.5
7.5°	3025.4	3018.4	2931.2	2858.0	2763.8	2648.7	2557.0	2504.7	2421.0	2397.7	2415.2
10°	3016.0	2978.8	2876.6	2780.1	2602.3	2501.1	2352.4	2208.3	2129.2	2088.6	2082.8
12.5°	3003.3	2992.8	2821.9	2655.7	2468.6	2255.9	2046.7	1910.8	1781.7	1726.0	1734.1
15°	3018.4	2930.1	2719.7	2509.3	2260.6	1981.6	1756.2	1580.6	1491.1	1455.1	1455.1
17.5°	3011.4	2899.8	2670.8	2345.4	2030.5	1700.4	1452.8	1347.1	1309.9	1309.9	1320.3
20°	3014.9	2919.6	2572.1	2181.5	1758.5	1431.9	1251.7	1213.4	1229.6	1235.5	1241.3
22.5°	3034.6	2854.5	2475.6	2001.4	1506.3	1225.0	1136.7	1137.9	1166.9	1198.3	1192.4
25°	3059.0	2828.9	2358.2	1822.4	1313.3	1123.9	1096.0	1092.5	1114.6	1130.9	1133.2
27.5°	3038.1	2784.7	2238.5	1599.3	1155.2	1056.5	1050.7	1053.0	1059.9	1092.5	1082.0
30°	3106.7	2797.5	2088.6	1412.1	1068.1	1034.4	1027.5	1023.9	1034.4	1043.7	1035.6
32.5°	3191.5	2752.2	1977.0	1232.0	1025.1	1018.1	1004.2	999.5	1005.4	996.1	1000.7
35°	3228.7	2744.1	1831.7	1102.9	991.4	985.6	977.4	976.3	977.4	969.3	962.3
37.5°	3249.6	2782.4	1665.5	1043.7	970.5	976.3	957.7	955.3	934.4	939.1	942.6
40°	3285.7	2723.1	1530.7	986.7	957.7	946.1	929.8	926.3	912.4	904.2	912.4
42.5°	3233.4	2705.7	1398.2	962.3	939.1	926.3	914.7	895.0	890.3	883.3	878.7
45°	3191.5	2605.7	1279.7	932.1	917.0	910.0	887.9	867.0	849.6	856.6	846.1
47.5°	3222.9	2570.9	1162.3	906.6	886.8	878.7	856.6	840.3	822.9	814.7	812.4
50°	3348.4	2636.0	1063.5	887.9	861.2	856.6	827.6	808.9	792.6	786.8	789.2
52.5°	3648.3	2813.8	996.1	849.6	836.8	815.9	799.6	776.3	765.9	747.3	759.0
55°	4028.4	3103.2	978.6	813.5	806.6	788.0	765.9	748.5	728.7	713.6	710.1
56°	4150.4	3241.5	964.7	799.6	788.0	777.5	748.5	738.1	706.7	703.1	700.9
57.5°	4249.2	3363.5	967.0	772.9	761.3	752.0	734.5	709.0	688.0	675.3	681.1
60°	4026.0	3148.5	922.8	732.2	729.9	712.5	688.0	676.4	650.8	635.7	632.3
62.5°	2992.8	2137.4	748.5	679.9	678.8	660.1	632.3	619.5	614.8	593.9	593.9
65°	1723.6	1340.1	647.4	636.9	627.6	609.0	581.1	570.7	559.1	552.1	546.2
67.5°	735.7	695.0	588.1	586.9	576.4	553.3	525.3	509.0	493.9	480.0	486.9
70°	533.5	541.6	531.1	525.3	512.6	483.5	459.1	439.3	416.1	406.8	413.7
72.5°	423.1	440.5	455.6	456.8	441.7	407.9	381.2	354.5	328.9	316.1	322.0
75°	320.8	332.4	347.5	351.0	328.9	305.7	280.1	252.2	232.5	217.4	219.6
77.5°	231.3	228.9	242.9	240.6	230.1	213.8	190.6	165.1	143.0	129.0	130.1
80°	158.1	161.5	169.7	168.5	155.7	145.2	127.9	107.0	90.7	79.0	76.7
82.5°	110.4	116.2	123.2	117.4	107.0	96.5	83.7	68.6	55.7	46.5	44.2
85°	39.5	45.3	52.3	55.7	59.3	56.9	47.7	38.4	27.9	23.3	22.1
87.5°	8.1	9.3	10.5	10.5	10.5	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)