

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: P646859

Luminaire Tested: **GALN-SA3C-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9994.2 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

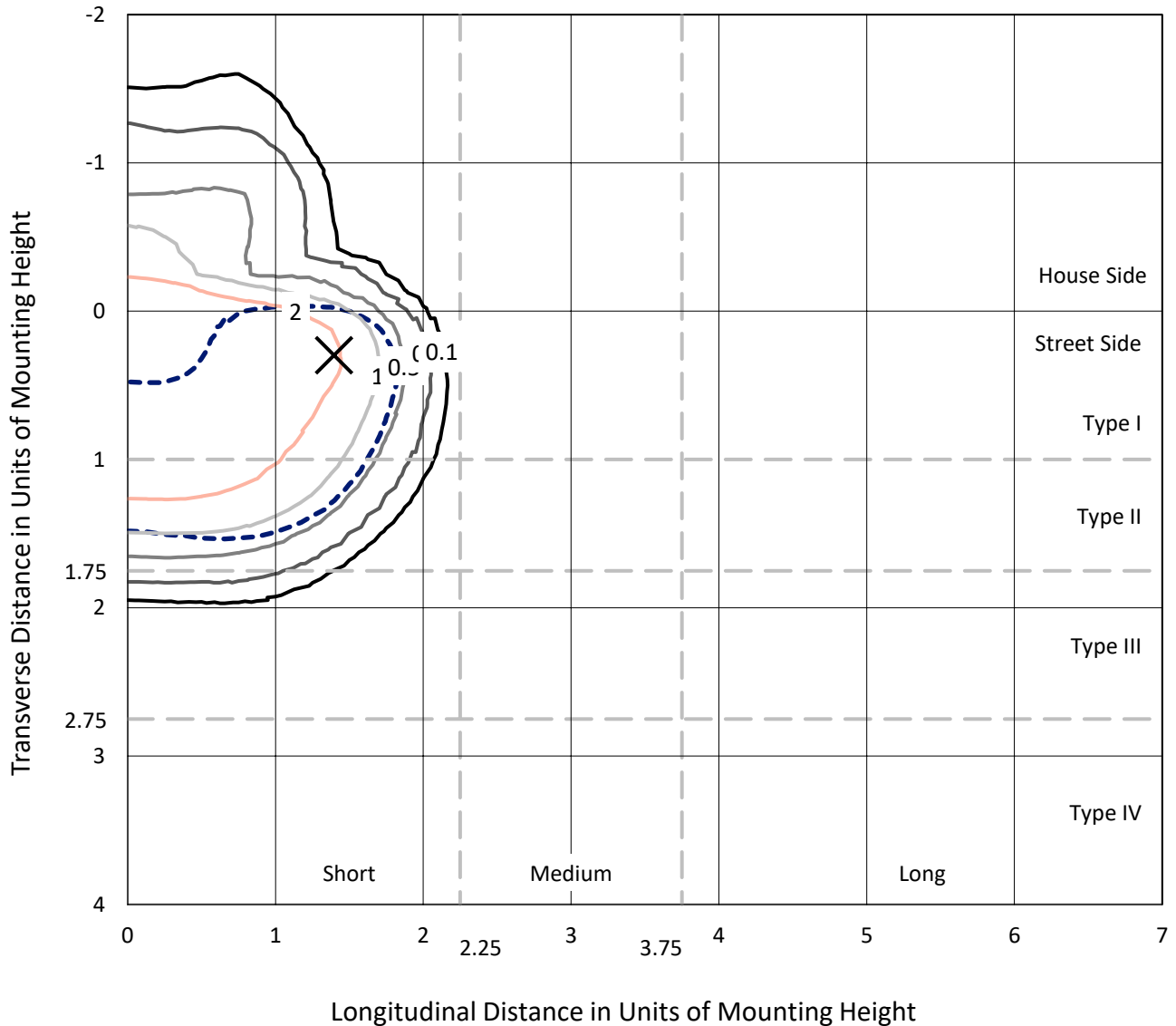
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

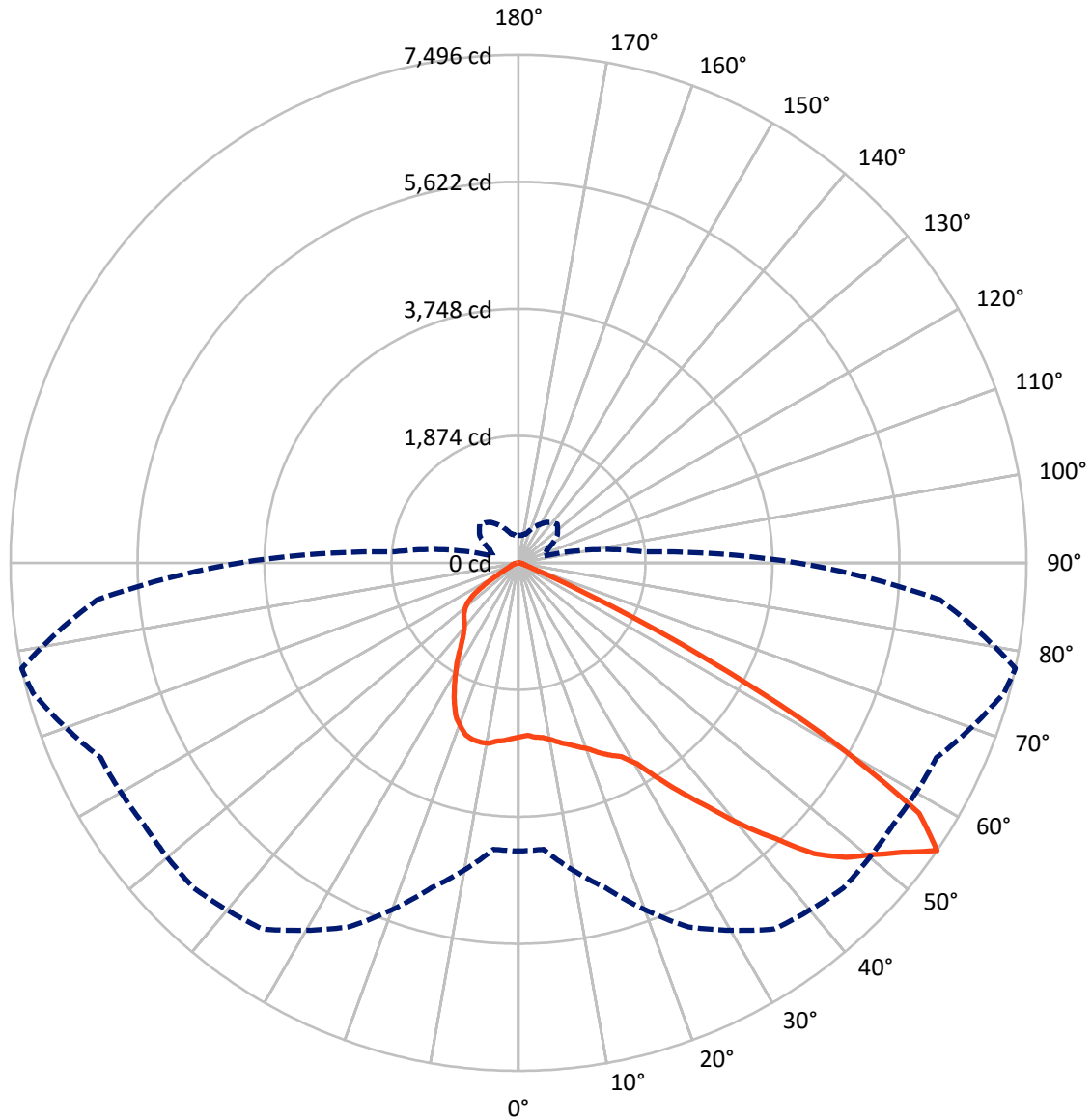
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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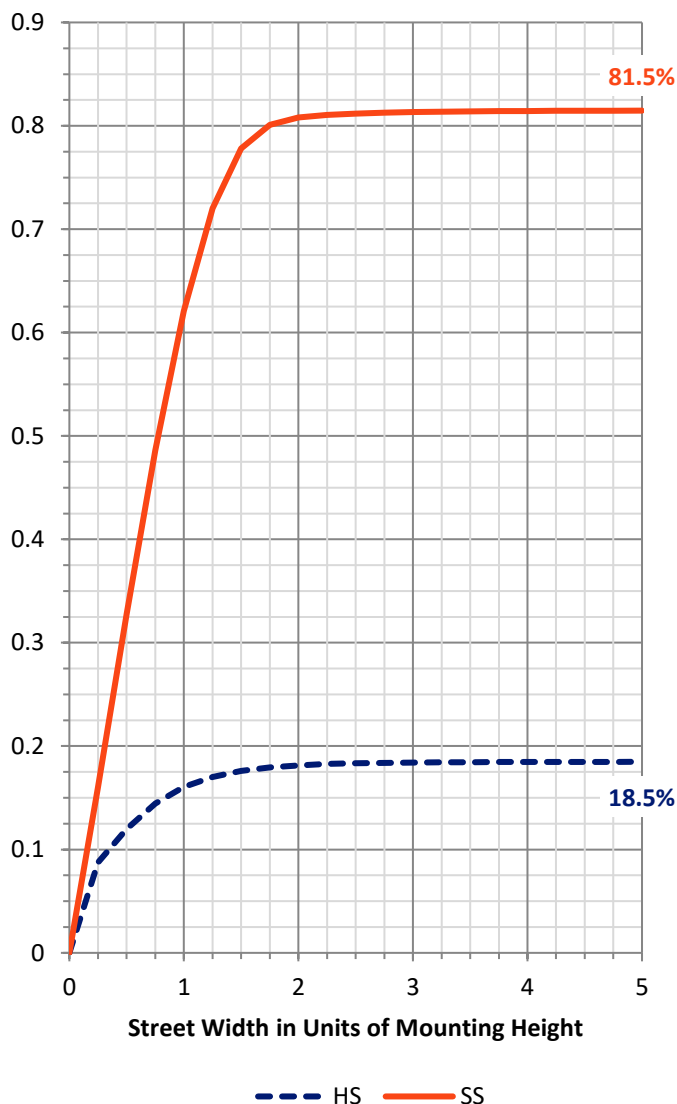
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1856.3	0.0	1856.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	8137.9	0.0	8137.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	9994.2	0.0	9994.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.1	2.3
10°-20°	606.4	6.1
20°-30°	1062.9	10.6
30°-40°	1752.5	17.5
40°-50°	2550.1	25.5
50°-60°	2889.6	28.9
60°-70°	826.2	8.3
70°-80°	64.2	0.6
80°-90°	13.3	0.1
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°	9994.2	100.0
0°-180°	9994.2	100.0

Coefficient of Utilization



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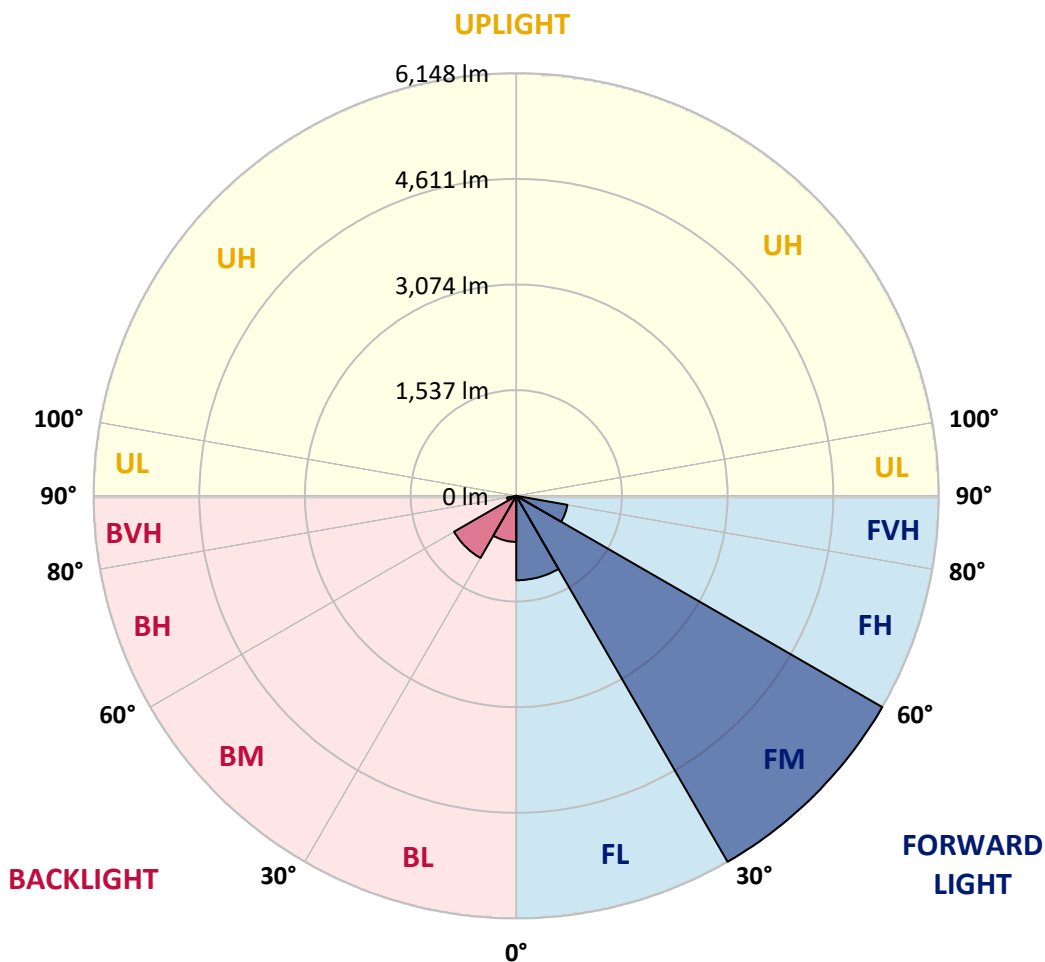
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1228.6	12.3			
FM (30°-60°)	6148.0	61.5			
FH (60°-80°)	754.8	7.6			G1/1800
FVH (80°-90°)	6.5	0.1			G0/10
BL (0°-30°)	669.8	6.7	B2/1000		
BM (30°-60°)	1044.2	10.4	B2/2500		
BH (60°-80°)	135.5	1.4	B1/500		G1/500
BVH (80°-90°)	6.8	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5
2.5°	2415.9	2439.0	2442.6	2471.2	2469.4	2517.7	2532.0	2533.8	2566.0	2549.8	2590.9
5°	2348.0	2335.5	2330.1	2380.1	2394.4	2437.3	2473.0	2494.5	2560.6	2583.8	2626.7
7.5°	2287.2	2287.2	2290.7	2335.5	2330.1	2385.5	2423.0	2489.1	2585.6	2605.3	2657.1
10°	2228.3	2206.8	2233.6	2280.0	2319.3	2344.4	2423.0	2485.6	2598.1	2655.3	2726.8
12.5°	2197.9	2208.6	2212.1	2246.1	2288.9	2364.0	2406.9	2510.5	2687.4	2721.4	2798.2
15°	2389.0	2367.6	2315.8	2285.4	2321.1	2356.9	2464.1	2569.5	2733.9	2782.2	2867.9
17.5°	2610.6	2592.7	2549.8	2467.7	2387.3	2453.4	2537.4	2633.9	2784.0	2855.4	2982.3
20°	2900.1	2871.5	2828.6	2667.8	2598.1	2526.7	2616.0	2730.3	2866.2	2930.5	3060.9
22.5°	3245.0	3245.0	3148.4	2953.7	2808.9	2741.0	2778.6	2844.7	2957.2	3044.9	3173.5
25°	3604.1	3593.4	3505.8	3303.9	3059.1	2978.7	3021.6	3068.0	3098.4	3146.6	3232.5
27.5°	4015.1	3952.6	3841.8	3618.4	3402.2	3246.7	3293.2	3252.1	3214.6	3239.6	3362.9
30°	4293.8	4333.1	4192.0	3977.6	3773.9	3600.5	3609.5	3573.8	3402.2	3437.9	3511.2
32.5°	4583.3	4608.3	4529.7	4411.8	4208.1	4006.1	3932.9	3902.6	3773.9	3790.0	3718.5
35°	4824.5	4872.8	4803.1	4751.3	4692.3	4529.7	4327.8	4426.1	4218.8	4179.5	3993.7
37.5°	5046.1	5031.8	5114.0	5060.5	5047.9	4933.5	4711.9	4731.6	4592.2	4583.3	4368.9
40°	5244.5	5248.1	5360.6	5385.6	5335.6	5131.9	4810.3	4965.7	5078.3	5089.0	4813.8
42.5°	5408.9	5457.1	5553.6	5755.5	5680.4	5340.9	4912.1	5081.8	5499.9	5566.1	5235.5
45°	5551.8	5650.0	5769.8	5950.3	5907.4	5637.6	5165.8	5321.3	5950.3	6123.6	5632.2
47.5°	5560.7	5689.4	5819.8	6087.8	6141.5	5796.6	5428.5	5700.1	6307.6	6495.3	5921.7
50°	5525.0	5592.9	5853.8	6145.1	6266.6	6055.7	5796.6	6018.1	6654.3	6772.2	6068.2
52.5°	5101.5	5153.3	5676.9	6198.6	6491.7	6348.7	6284.4	6461.3	7008.1	7095.6	6205.8
55°	4252.8	4243.8	4963.9	5928.8	6595.4	6783.0	6743.7	6806.1	7417.3	7495.9	6239.7
57.5°	2909.0	3071.6	3693.5	4937.1	5961.0	6681.1	6722.2	6618.5	6940.2	6970.6	5439.3
60°	1568.9	1636.8	2137.1	3295.0	4538.7	5444.6	5551.8	5364.2	5339.2	5253.4	3882.9
62.5°	623.6	657.6	941.7	1631.4	2473.0	3309.3	3539.8	3463.0	3298.5	3073.4	2010.2
65°	296.6	318.1	468.2	763.0	1097.1	1379.5	1610.0	1681.4	1240.1	1116.8	663.0
67.5°	201.9	218.0	341.3	436.0	391.3	409.2	532.5	494.9	291.3	248.4	184.1
70°	153.7	164.4	273.4	296.6	175.1	123.3	137.6	128.6	119.7	121.5	119.7
72.5°	109.0	117.9	200.1	175.1	76.8	57.2	73.3	87.5	87.5	87.5	85.7
75°	66.1	75.0	116.1	67.9	30.4	30.4	46.4	59.0	62.6	64.4	60.8
77.5°	34.0	42.9	39.3	19.7	19.7	23.3	34.0	41.1	44.7	44.7	42.9
80°	7.1	7.1	7.1	10.7	19.7	25.0	34.0	37.5	42.9	42.9	39.3
82.5°	0.0	1.8	5.3	10.7	17.9	23.3	32.2	37.5	42.9	44.7	41.1
85°	0.0	1.8	3.6	7.1	12.5	14.3	12.5	10.7	10.7	10.7	10.7
87.5°	0.0	0.0	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6
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°	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5	2569.5
2.5°	2594.5	2599.9	2590.9	2589.1	2582.0	2603.5	2551.6	2539.1	2571.3	2540.9	2548.0
5°	2628.5	2641.0	2624.9	2598.1	2558.8	2498.0	2446.2	2378.3	2346.2	2322.9	2319.3
7.5°	2653.5	2662.4	2646.4	2560.6	2442.6	2288.9	2174.6	2090.6	2024.5	2004.9	1972.7
10°	2755.4	2757.2	2676.8	2487.4	2256.8	2054.9	1879.7	1751.1	1685.0	1643.9	1626.1
12.5°	2823.3	2819.7	2657.1	2342.6	2035.3	1767.2	1567.1	1411.6	1350.9	1331.3	1318.7
15°	2909.0	2889.3	2610.6	2194.3	1749.4	1459.9	1279.4	1172.2	1166.8	1154.3	1166.8
17.5°	2976.9	2921.5	2542.7	1924.5	1476.0	1202.5	1084.6	1091.8	1106.1	1118.6	1120.4
20°	3087.7	2973.4	2387.3	1688.6	1222.2	1031.1	1029.3	1061.4	1097.1	1111.5	1125.7
22.5°	3171.7	2994.8	2221.1	1436.6	1014.9	961.4	991.7	1040.0	1066.8	1081.1	1102.5
25°	3202.1	2935.9	1999.5	1184.7	914.9	929.2	975.6	1007.8	1041.8	1057.8	1048.9
27.5°	3232.5	2905.5	1735.0	975.6	861.3	907.7	947.0	979.2	989.9	1011.4	1025.7
30°	3305.7	2800.0	1497.4	843.4	834.4	893.4	922.1	932.7	961.4	973.8	973.8
32.5°	3364.7	2758.9	1245.4	780.9	830.9	900.6	904.1	904.1	907.7	898.8	895.2
35°	3486.2	2617.7	1020.3	743.3	829.1	902.4	911.3	881.0	798.7	766.6	757.6
37.5°	3636.3	2526.7	854.1	734.4	841.6	923.8	938.1	823.7	716.5	664.7	655.8
40°	3818.5	2462.3	745.1	730.9	870.2	973.8	931.0	779.1	639.7	564.6	561.1
42.5°	4031.2	2403.3	671.9	729.1	905.9	1025.7	923.8	741.6	561.1	511.1	518.2
45°	4201.0	2371.2	621.9	716.5	918.5	1056.0	929.2	675.4	528.9	496.7	500.3
47.5°	4333.1	2303.3	580.8	695.1	916.7	1066.8	881.0	648.6	512.9	521.8	530.7
50°	4336.7	2212.1	528.9	648.6	889.9	1047.1	825.5	623.6	509.3	546.8	564.6
52.5°	4288.5	2083.5	473.6	582.6	827.3	979.2	775.5	612.9	493.2	489.6	511.1
55°	4116.9	1842.2	380.6	471.8	698.7	807.7	730.9	593.3	444.9	403.9	407.4
57.5°	3327.1	1320.5	280.5	337.7	494.9	591.5	659.4	584.3	400.3	343.1	344.8
60°	2060.2	748.7	205.5	230.5	305.5	359.2	534.2	543.2	357.4	289.5	285.9
62.5°	1057.8	369.9	159.0	162.6	187.6	210.9	366.3	455.6	323.5	275.1	275.1
65°	353.8	182.3	139.4	125.0	125.0	130.4	221.6	316.3	273.4	230.5	230.5
67.5°	151.9	135.8	121.5	109.0	100.1	94.7	125.0	184.1	203.7	175.1	168.0
70°	117.9	114.4	105.4	91.1	78.6	71.5	73.3	94.7	116.1	112.6	109.0
72.5°	87.5	87.5	84.0	71.5	60.8	51.8	48.2	50.0	55.4	57.2	59.0
75°	60.8	62.6	62.6	55.4	44.7	37.5	32.2	26.8	21.5	17.9	16.1
77.5°	41.1	42.9	46.4	41.1	34.0	25.0	19.7	14.3	8.9	3.6	3.6
80°	35.7	41.1	44.7	41.1	35.7	26.8	19.7	10.7	5.3	0.0	0.0
82.5°	37.5	41.1	46.4	39.3	34.0	25.0	19.7	12.5	5.3	1.8	0.0
85°	8.9	8.9	10.7	12.5	16.1	17.9	14.3	8.9	5.3	1.8	0.0
87.5°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	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)