

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: P528556

Luminaire Tested: **GALN-SA3C-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528556
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-SA3C-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA 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: 13154 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

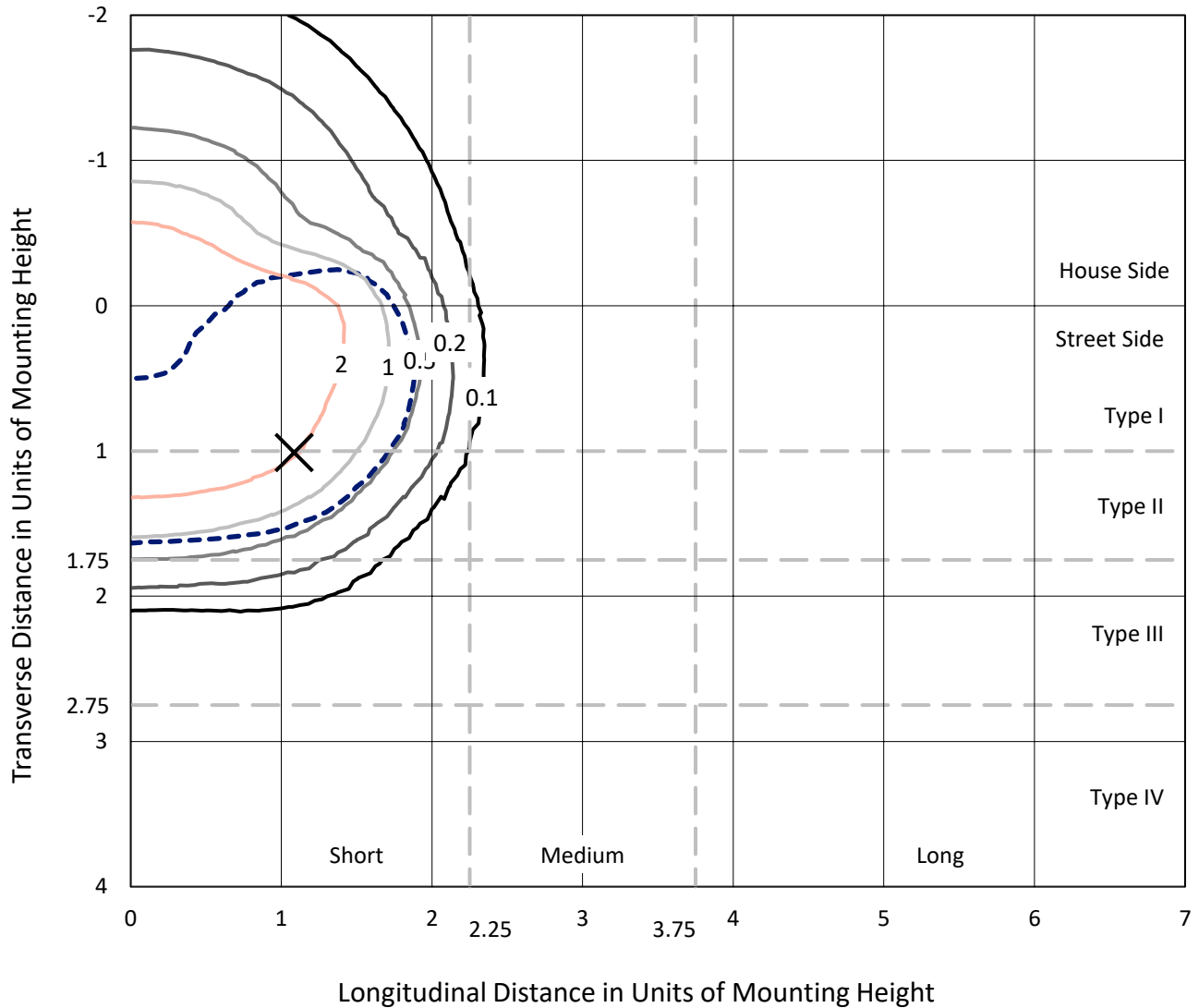
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

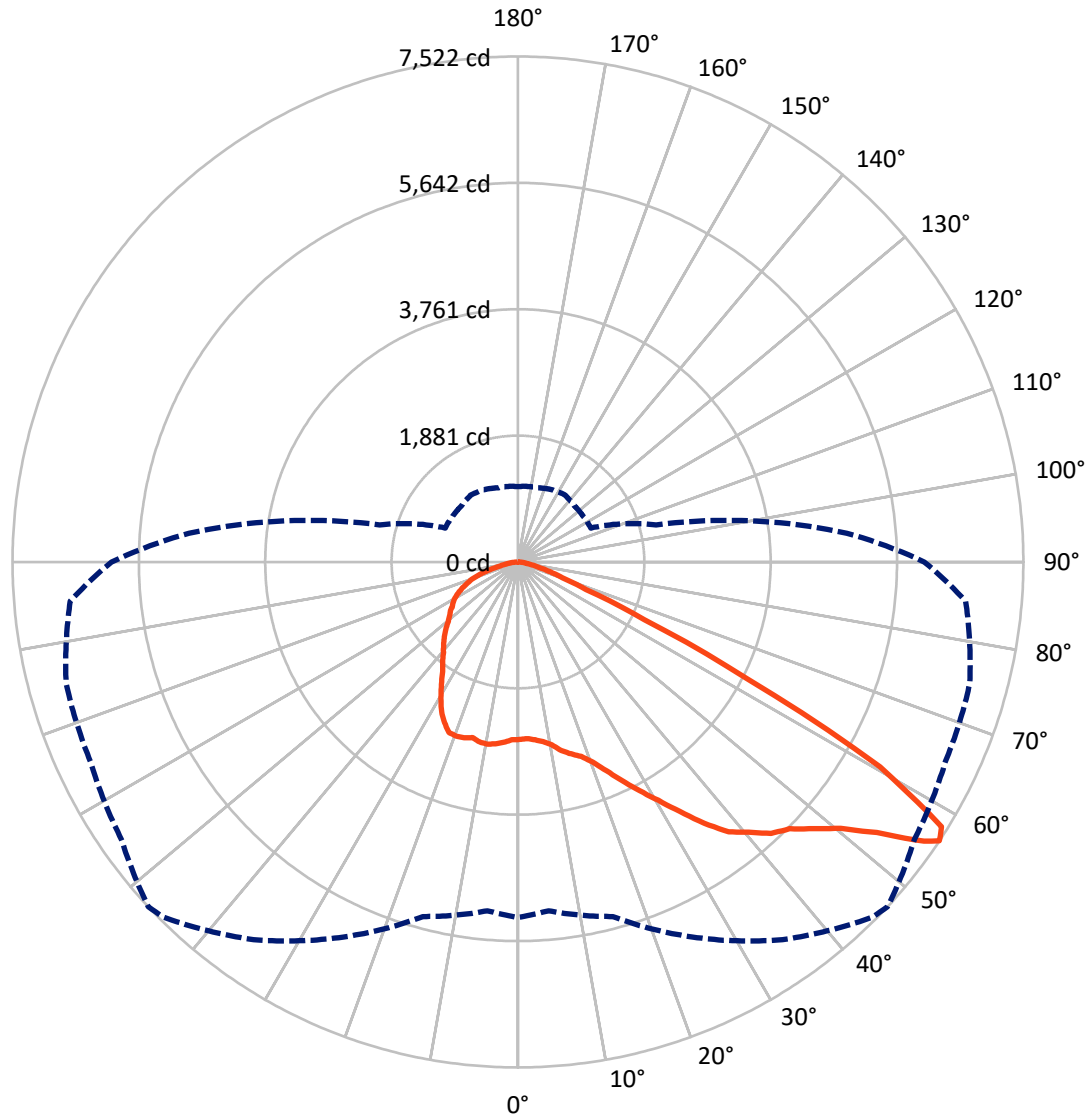
✕ Max cd
 - - - 1/2 Max cd



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

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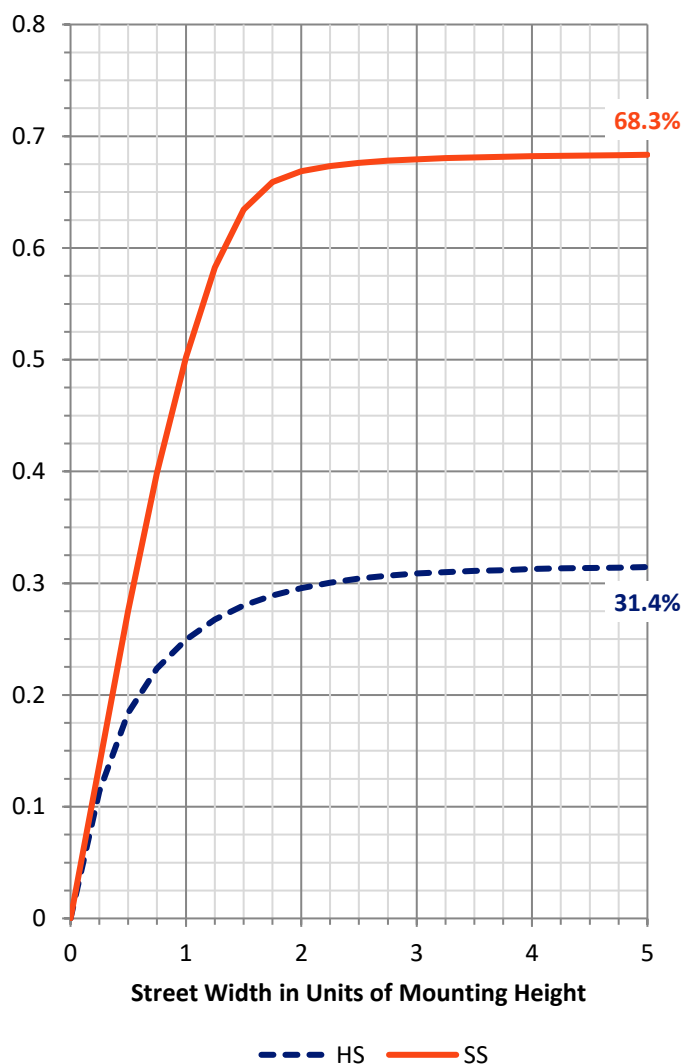
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4168.3	0.0	4168.3
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	8985.7	0.0	8985.7
	% Fixture	68.3	0.0	68.3
Total	Lumens	13154.0	0.0	13154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.5	2.0
10°-20°	812.1	6.2
20°-30°	1435.6	10.9
30°-40°	2156.3	16.4
40°-50°	2959.3	22.5
50°-60°	3525.6	26.8
60°-70°	1508.8	11.5
70°-80°	427.0	3.2
80°-90°	71.9	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°	13154.0	100.0
0°-180°	13154.0	100.0

Coefficient of Utilization



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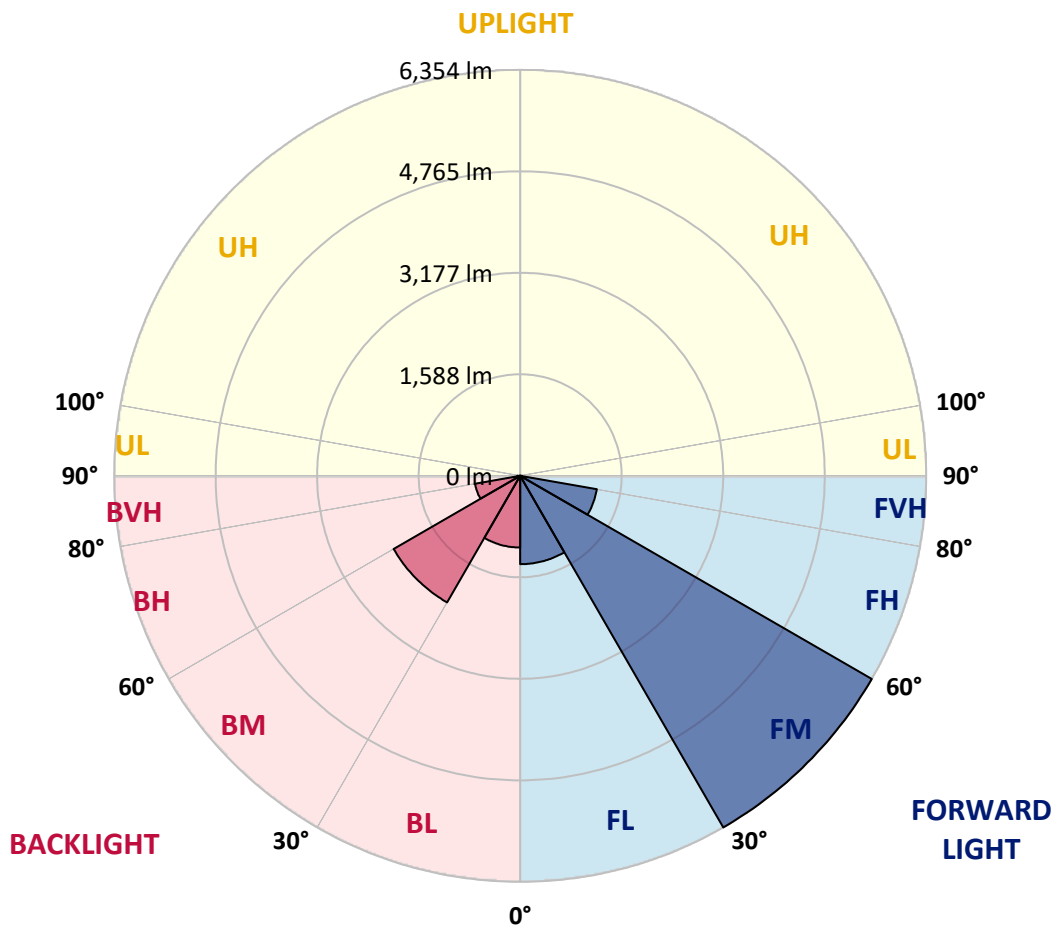
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1382.9	10.5			
FM (30°-60°)	6353.7	48.3			
FH (60°-80°)	1218.5	9.3			G1/1800
FVH (80°-90°)	30.5	0.2			G1/100
BL (0°-30°)	1122.3	8.5	B3/2500		
BM (30°-60°)	2287.5	17.4	B2/2500		
BH (60°-80°)	717.2	5.5	B2/1000		G2/1000
BVH (80°-90°)	41.4	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°	2642.2	2642.2	2642.2	2642.2	2642.2	2642.2	2642.2	2642.2	2642.2	2642.2	2642.2
2.5°	2632.2	2627.1	2623.8	2650.6	2640.6	2642.2	2632.2	2642.2	2648.9	2633.9	2655.7
5°	2627.1	2642.2	2628.8	2637.2	2659.0	2652.3	2659.0	2679.1	2674.1	2669.1	2662.4
7.5°	2674.1	2675.8	2685.9	2689.2	2695.9	2689.2	2699.3	2717.7	2712.7	2684.2	2687.5
10°	2741.2	2744.6	2746.3	2764.7	2776.4	2778.1	2766.4	2749.6	2747.9	2786.5	2759.7
12.5°	2818.4	2810.0	2830.1	2836.8	2850.3	2865.4	2880.5	2845.2	2867.0	2868.7	2836.8
15°	2930.8	2939.2	2915.7	2915.7	2920.7	2922.4	2964.3	2947.6	2944.2	2925.8	2939.2
17.5°	3098.5	3041.5	3039.8	3016.3	3013.0	3026.4	3041.5	3054.9	3100.2	3063.3	2991.2
20°	3221.0	3234.4	3185.8	3157.3	3162.3	3192.5	3177.4	3237.8	3269.7	3209.3	3138.8
22.5°	3437.4	3392.1	3403.9	3340.1	3345.2	3377.0	3375.4	3437.4	3455.9	3360.3	3257.9
25°	3583.4	3571.6	3581.7	3531.4	3538.1	3563.2	3603.5	3705.8	3675.6	3570.0	3333.4
27.5°	3796.4	3772.9	3764.6	3746.1	3739.4	3806.5	3853.5	3962.5	3940.7	3786.4	3467.6
30°	4014.5	3999.4	4007.8	3932.3	3959.2	4101.8	4115.2	4264.5	4254.4	3982.7	3616.9
32.5°	4165.5	4173.9	4189.0	4147.1	4266.2	4380.2	4425.5	4595.0	4603.4	4319.9	3905.5
35°	4408.8	4380.2	4388.6	4437.3	4492.6	4700.7	4774.5	4886.9	4957.3	4673.8	4182.3
37.5°	4561.4	4591.6	4556.4	4633.6	4777.8	5027.8	5094.9	5210.7	5284.5	5022.8	4559.7
40°	4799.6	4751.0	4776.2	4831.5	4979.2	5304.6	5286.2	5405.3	5428.8	5319.7	4912.0
42.5°	5056.3	5032.8	4997.6	5123.4	5247.6	5484.1	5521.0	5465.7	5584.8	5609.9	5415.3
45°	5363.3	5391.8	5396.9	5400.2	5509.3	5715.6	5665.3	5616.6	5754.2	5937.1	5727.4
47.5°	5648.5	5557.9	5623.4	5713.9	5868.3	5870.0	5928.7	5812.9	5958.9	6121.6	6009.2
50°	5744.1	5700.5	5787.8	5958.9	6197.1	6222.3	6229.0	6064.6	6140.1	6269.2	6106.5
52.5°	5707.2	5692.1	5915.3	6180.3	6529.3	6656.8	6690.3	6487.3	6529.3	6470.5	6321.2
55°	5531.1	5576.4	5801.2	6341.4	6876.5	7270.8	7334.5	7077.8	6811.1	6856.4	6692.0
56°	5289.5	5210.7	5462.3	6158.5	6861.4	7470.4	7522.4	7202.0	7020.8	6962.1	6688.6
57.5°	4487.6	4385.3	4715.8	5541.2	6480.6	7394.9	7433.5	7254.0	6985.6	6866.5	6200.5
60°	2627.1	2677.5	3096.9	3821.6	4999.3	6062.9	6192.1	6322.9	6143.4	5609.9	4615.1
62.5°	1268.3	1236.4	1536.7	2191.0	3046.5	3870.3	3831.7	4199.1	4400.4	3986.0	2914.0
65°	664.3	661.0	838.8	1196.1	1674.3	2033.3	2068.5	2266.5	2543.3	2053.4	1479.7
67.5°	488.2	501.6	590.5	840.5	1077.0	1098.8	1093.8	1192.8	1219.6	1031.7	909.3
70°	382.5	389.2	454.6	639.2	801.9	718.0	702.9	714.7	793.5	827.1	786.8
72.5°	276.8	283.5	338.9	431.1	501.6	489.9	499.9	565.4	662.7	697.9	655.9
75°	184.5	189.6	219.8	263.4	296.9	320.4	338.9	414.4	505.0	525.1	505.0
77.5°	127.5	132.5	152.7	186.2	189.6	204.7	211.4	246.6	302.0	327.1	313.7
80°	72.1	72.1	82.2	95.6	117.4	137.6	140.9	169.4	194.6	211.4	214.7
82.5°	33.6	35.2	43.6	58.7	77.2	95.6	99.0	117.4	135.9	152.7	157.7
85°	16.8	18.5	25.2	35.2	47.0	57.0	55.4	57.0	60.4	57.0	58.7
87.5°	5.0	5.0	6.7	8.4	6.7	8.4	8.4	10.1	11.7	13.4	15.1
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°	2642.2	2642.2	2642.2	2642.2	2642.2	2642.2	2642.2	2642.2	2642.2	2642.2	2642.2
2.5°	2657.3	2662.4	2628.8	2660.7	2648.9	2647.3	2670.8	2667.4	2675.8	2672.4	2652.3
5°	2659.0	2647.3	2682.5	2650.6	2665.7	2697.6	2675.8	2726.1	2701.0	2717.7	2680.8
7.5°	2711.0	2714.4	2707.7	2721.1	2714.4	2729.5	2717.7	2729.5	2709.3	2711.0	2744.6
10°	2756.3	2746.3	2758.0	2741.2	2753.0	2747.9	2721.1	2712.7	2719.4	2711.0	2732.8
12.5°	2840.2	2821.7	2813.4	2793.2	2779.8	2729.5	2687.5	2664.0	2695.9	2701.0	2690.9
15°	2925.8	2927.4	2888.8	2843.6	2759.7	2684.2	2694.2	2702.6	2702.6	2716.1	2690.9
17.5°	2979.4	2979.4	2944.2	2853.6	2768.1	2724.4	2714.4	2687.5	2664.0	2660.7	2659.0
20°	3073.4	3044.9	2964.3	2851.9	2764.7	2744.6	2669.1	2605.3	2556.7	2539.9	2538.2
22.5°	3180.8	3108.6	2996.2	2855.3	2759.7	2731.2	2590.2	2494.6	2407.4	2370.5	2375.5
25°	3279.7	3164.0	3014.7	2840.2	2741.2	2603.7	2446.0	2313.4	2222.8	2192.6	2177.5
27.5°	3348.5	3222.7	3014.7	2853.6	2672.4	2461.1	2300.0	2130.6	2051.7	2031.6	2034.9
30°	3440.8	3296.5	3066.7	2825.1	2534.9	2276.5	2083.6	1972.9	1925.9	1909.1	1920.9
32.5°	3657.2	3489.4	3138.8	2756.3	2372.1	2092.0	1936.0	1873.9	1805.1	1771.6	1759.8
35°	3892.1	3672.3	3209.3	2640.6	2189.3	1924.2	1826.9	1769.9	1687.7	1650.8	1657.5
37.5°	4224.2	3907.2	3214.3	2449.3	1991.3	1830.3	1741.4	1652.4	1585.3	1528.3	1511.5
40°	4672.1	4227.6	3202.6	2248.0	1832.0	1719.6	1654.1	1543.4	1467.9	1427.6	1436.0
42.5°	5066.4	4603.4	3153.9	2019.8	1687.7	1644.1	1570.2	1461.2	1387.4	1345.4	1342.1
45°	5398.6	4880.2	3061.6	1825.2	1566.9	1560.2	1474.6	1390.7	1332.0	1293.4	1310.2
47.5°	5705.6	5103.3	2922.4	1630.6	1456.2	1469.6	1387.4	1335.4	1298.5	1263.2	1261.6
50°	5816.3	5099.9	2799.9	1469.6	1367.3	1360.5	1357.2	1301.8	1263.2	1233.0	1246.5
52.5°	6000.8	5157.0	2667.4	1358.9	1286.7	1288.4	1300.1	1259.9	1216.3	1197.8	1214.6
55°	6265.9	5165.4	2375.5	1229.7	1219.6	1231.4	1231.4	1204.5	1167.6	1152.5	1144.1
56°	6049.5	4915.4	2130.6	1196.1	1186.1	1186.1	1217.9	1187.7	1142.5	1130.7	1120.6
57.5°	5579.7	4306.4	1783.3	1155.9	1140.8	1164.3	1181.0	1149.2	1107.2	1090.4	1100.5
60°	3848.4	2914.0	1340.4	1068.6	1068.6	1107.2	1120.6	1073.7	1055.2	1053.5	1040.1
62.5°	2246.3	1697.7	1048.5	989.8	993.1	1025.0	1035.1	1008.2	984.8	1013.3	1026.7
65°	1191.1	1013.3	899.2	905.9	907.6	932.8	976.4	974.7	973.0	981.4	983.1
67.5°	862.3	842.2	817.0	810.3	813.6	832.1	875.7	909.3	907.6	887.5	872.4
70°	768.3	739.8	724.7	726.4	713.0	734.8	770.0	791.8	753.2	729.8	719.7
72.5°	639.2	630.8	620.7	622.4	595.6	590.5	550.3	550.3	540.2	533.5	545.2
75°	488.2	484.8	489.9	481.5	453.0	422.8	399.3	377.5	343.9	330.5	323.8
77.5°	308.7	318.7	330.5	312.0	300.3	278.5	255.0	233.2	206.3	191.2	191.2
80°	209.7	218.1	226.5	223.1	209.7	189.6	171.1	147.6	129.2	117.4	115.8
82.5°	159.4	166.1	177.8	164.4	151.0	134.2	119.1	102.3	85.6	72.1	72.1
85°	57.0	65.4	72.1	78.8	83.9	85.6	73.8	60.4	48.7	38.6	36.9
87.5°	15.1	16.8	18.5	16.8	16.8	16.8	18.5	16.8	15.1	11.7	11.7
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)