

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: P648255

Luminaire Tested: **GALN-SA2B-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9047.6 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

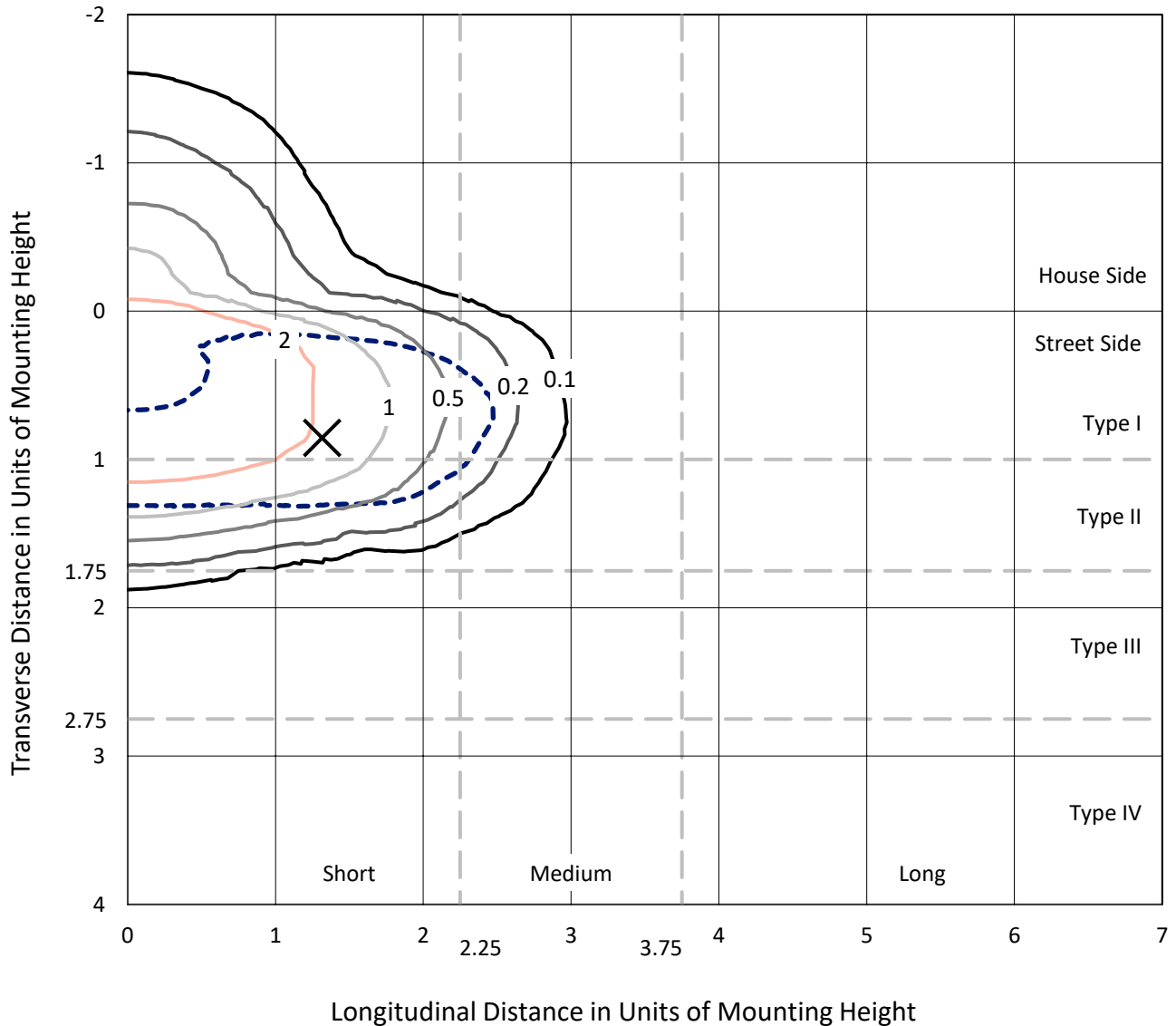
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

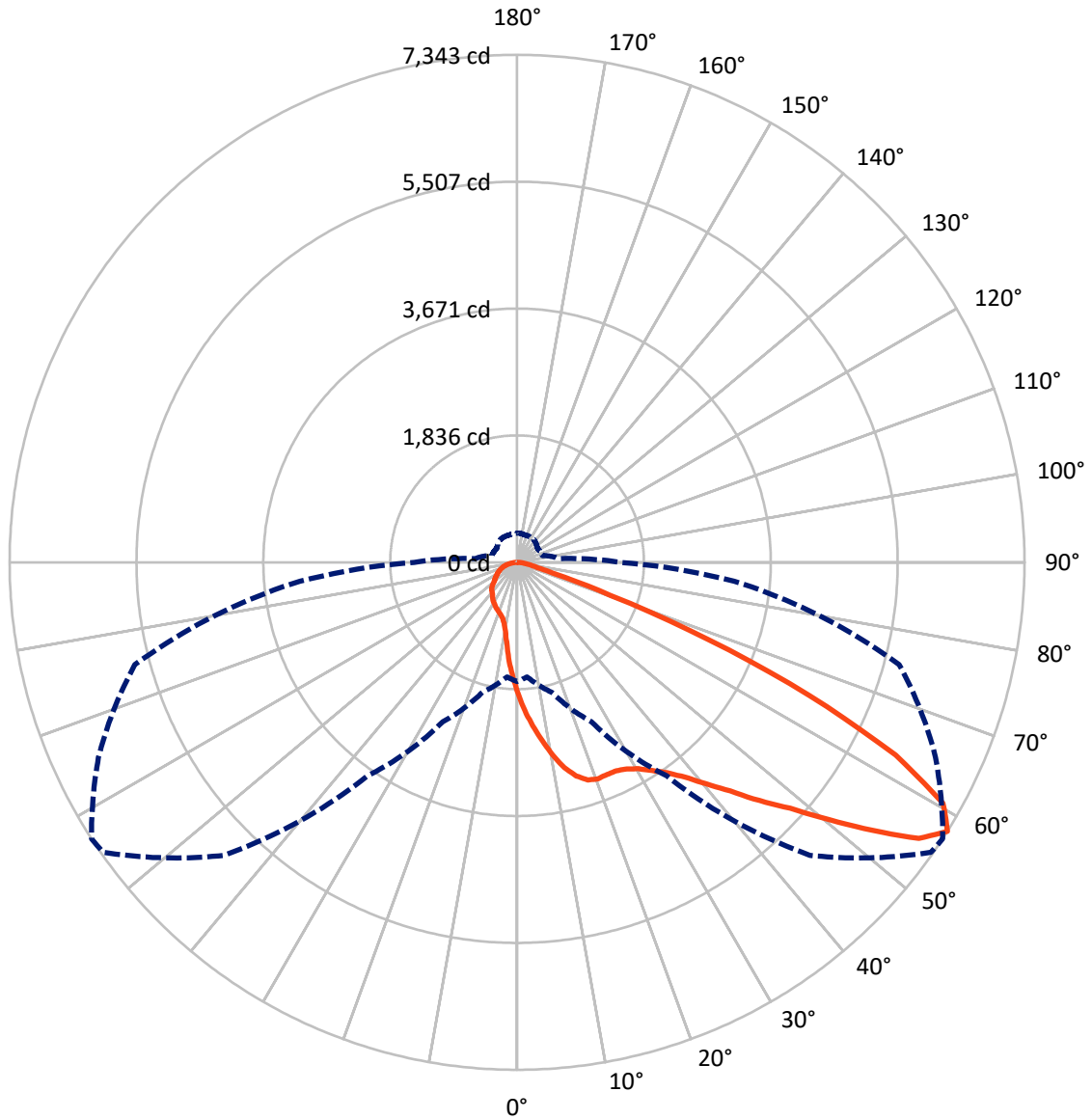
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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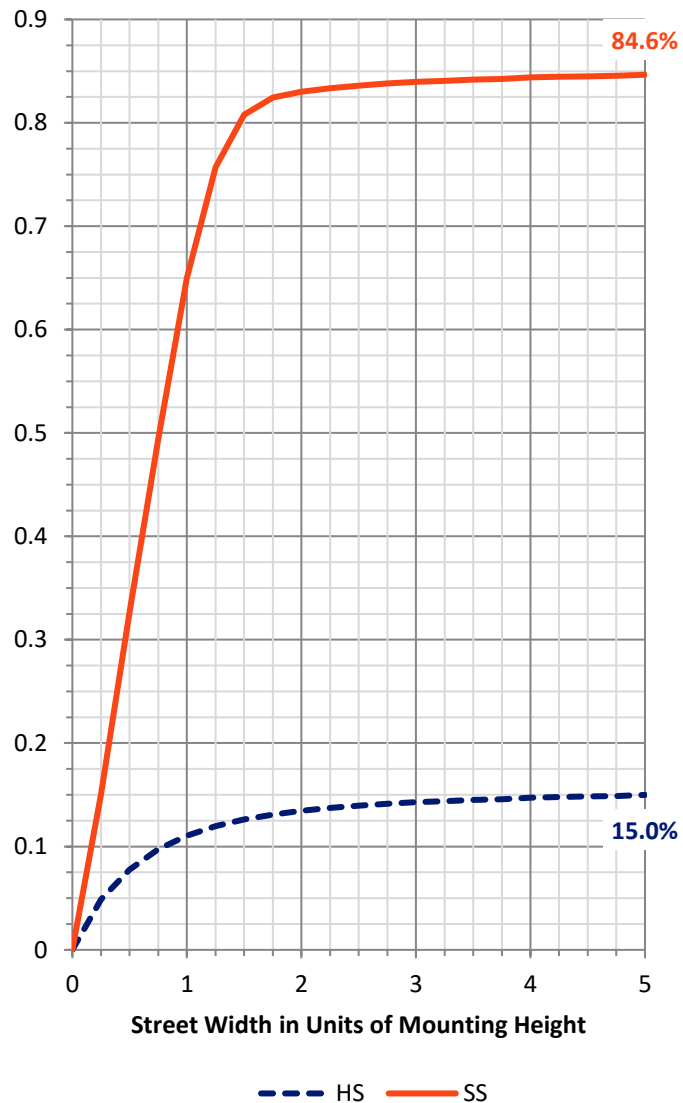
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1375.9	0.0	1375.9
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	7671.7	0.0	7671.7
	% Fixture	84.8	0.0	84.8
Total	Lumens	9047.6	0.0	9047.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	2.0
10°-20°	538.4	6.0
20°-30°	894.0	9.9
30°-40°	1346.6	14.9
40°-50°	2021.8	22.3
50°-60°	2266.2	25.0
60°-70°	1326.3	14.7
70°-80°	392.3	4.3
80°-90°	79.3	0.9
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°	9047.6	100.0
0°-180°	9047.6	100.0

Coefficient of Utilization

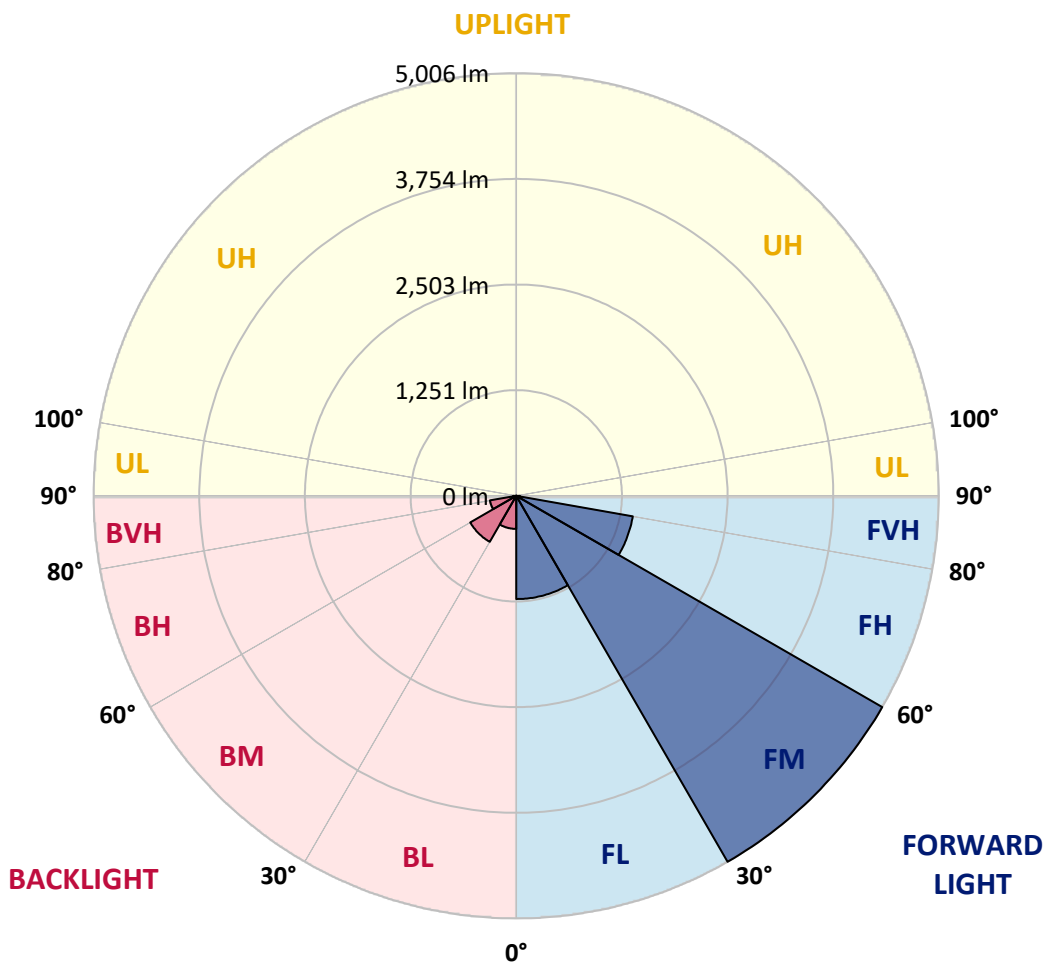


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1223.0	13.5			
FM (30°-60°)	5005.5	55.3			
FH (60°-80°)	1402.0	15.5			G1/1800
FVH (80°-90°)	41.1	0.5			G1/100
BL (0°-30°)	392.0	4.3	B1/500		
BM (30°-60°)	629.1	7.0	B1/1000		
BH (60°-80°)	316.6	3.5	B1/500		G1/500
BVH (80°-90°)	38.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8
2.5°	2361.8	2336.1	2315.8	2297.9	2274.7	2211.8	2148.9	2147.9	2097.9	2020.6	1941.4
5°	2746.7	2712.0	2716.5	2661.0	2605.5	2514.4	2381.2	2374.3	2267.8	2123.2	1976.1
7.5°	2997.3	2997.8	2983.9	2952.2	2892.3	2788.8	2637.7	2603.6	2455.5	2236.1	2015.7
10°	2984.4	2997.8	3021.0	3048.3	3066.6	3015.6	2877.9	2836.3	2643.6	2372.8	2059.8
12.5°	2813.1	2833.8	2867.0	2935.4	3045.8	3130.0	3083.0	3049.3	2861.6	2509.0	2108.3
15°	2706.0	2718.4	2736.8	2782.9	2901.7	3103.3	3225.1	3207.2	3067.1	2663.0	2162.8
17.5°	2673.4	2685.8	2691.7	2719.9	2804.6	3011.2	3281.1	3312.8	3249.4	2804.6	2217.8
20°	2706.0	2712.0	2712.0	2728.8	2795.2	2957.2	3278.6	3342.5	3398.9	2974.5	2269.3
22.5°	2791.8	2794.2	2790.8	2796.7	2846.2	2972.0	3255.3	3334.6	3519.7	3118.6	2309.4
25°	2930.9	2934.9	2912.1	2898.2	2934.4	3037.4	3268.2	3341.0	3614.4	3256.3	2336.1
27.5°	3088.9	3093.9	3066.1	3034.0	3050.8	3118.1	3318.7	3384.0	3685.2	3392.0	2353.0
30°	3282.6	3284.5	3238.0	3199.3	3188.5	3238.5	3404.9	3465.8	3773.4	3552.0	2378.2
32.5°	3480.7	3495.5	3435.6	3381.1	3362.8	3378.2	3532.2	3591.1	3878.4	3723.8	2418.8
35°	3750.1	3752.5	3680.7	3614.4	3554.0	3573.8	3695.1	3737.7	4023.4	3922.4	2476.2
37.5°	4086.3	4109.1	4010.1	3886.3	3812.0	3783.2	3892.2	3938.8	4227.0	4166.1	2562.9
40°	4459.8	4468.2	4383.5	4306.3	4170.6	4087.3	4162.6	4213.2	4478.1	4456.8	2663.5
42.5°	4694.6	4712.9	4719.3	4711.4	4609.4	4469.7	4498.4	4522.1	4775.3	4729.7	2766.5
45°	4773.8	4801.0	4893.1	5088.2	5099.1	4961.5	4894.6	4917.4	5099.1	5005.0	2865.1
47.5°	4642.5	4689.1	4859.0	5259.1	5558.8	5569.2	5367.5	5317.6	5394.3	5233.3	2936.4
50°	4303.3	4313.2	4573.2	5152.6	5774.2	6150.1	5941.6	5848.5	5674.6	5402.2	2985.4
52.5°	3778.3	3789.7	4007.6	4657.9	5641.4	6556.2	6613.1	6446.8	5959.4	5533.5	3017.6
55°	2804.6	2870.5	3110.2	3738.7	5012.5	6518.1	7147.1	7052.4	6303.6	5637.5	3068.1
57.5°	1724.5	1664.0	1948.3	2543.7	3769.9	5994.1	7312.0	7342.7	6682.5	5724.7	3152.8
60°	793.4	805.3	922.7	1311.9	2297.9	4689.1	6887.0	7081.1	6892.0	5721.7	3174.1
62.5°	546.8	535.9	506.1	576.0	1048.0	2965.6	5817.3	6146.1	6472.0	5543.9	3089.4
65°	488.8	477.9	420.5	401.1	481.4	1292.7	4229.0	4644.0	5449.3	5095.2	2878.4
67.5°	456.6	441.8	382.3	344.7	343.7	514.6	2493.6	2993.3	4041.8	4307.8	2494.1
70°	423.0	411.1	352.1	310.5	292.7	323.4	1096.0	1434.8	2624.4	3104.3	1942.9
72.5°	389.3	375.4	322.4	277.8	254.6	242.2	420.0	546.3	1482.8	1861.2	1191.1
75°	340.2	333.3	288.2	251.6	226.4	195.6	266.5	304.1	709.2	854.8	597.7
77.5°	297.6	290.3	256.0	219.9	201.5	158.9	189.2	206.6	299.1	346.7	269.9
80°	217.9	225.3	216.0	194.1	179.8	124.8	127.3	141.6	177.8	196.6	164.9
82.5°	138.2	152.1	166.4	149.6	136.2	98.6	88.2	93.6	121.4	128.8	73.3
85°	57.9	59.0	96.5	91.1	77.8	58.4	53.0	56.0	64.9	67.9	34.1
87.5°	22.3	21.8	34.1	31.7	24.3	16.8	16.8	18.8	25.8	23.8	10.9
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°	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8
2.5°	1907.2	1872.1	1802.2	1715.6	1652.2	1580.9	1517.9	1472.9	1456.1	1448.2	1433.3
5°	1905.7	1836.4	1691.8	1540.2	1418.4	1293.6	1188.1	1119.8	1113.8	1068.2	1063.8
7.5°	1906.2	1800.3	1570.0	1347.1	1161.3	1033.6	946.4	923.6	896.4	889.5	892.9
10°	1907.7	1754.2	1439.2	1155.9	976.2	892.5	859.7	850.9	851.8	854.8	855.3
12.5°	1909.7	1709.6	1303.5	1010.9	872.2	837.5	834.0	842.0	850.3	856.8	858.2
15°	1912.2	1658.6	1171.3	894.0	820.1	817.1	828.6	842.0	853.8	863.3	864.7
17.5°	1909.2	1599.2	1060.3	822.2	791.5	805.8	824.6	841.4	852.3	861.2	862.2
20°	1902.3	1532.8	953.4	771.6	773.6	796.9	817.1	833.0	844.9	849.4	852.8
22.5°	1875.5	1453.6	860.3	732.5	752.3	784.5	808.8	818.2	804.8	795.4	797.9
25°	1829.9	1350.6	773.6	700.8	733.0	767.2	791.9	769.1	758.3	754.3	756.2
27.5°	1773.0	1237.6	708.2	667.6	708.2	747.8	740.9	737.0	731.9	725.5	727.0
30°	1711.6	1127.2	652.7	641.8	681.4	704.2	707.2	713.6	708.2	698.3	702.3
32.5°	1654.6	1023.2	610.7	620.1	662.7	659.2	681.4	688.9	663.7	630.5	632.0
35°	1606.1	926.6	579.0	598.8	630.5	632.0	654.2	628.5	601.3	585.4	586.4
37.5°	1569.4	851.4	558.1	580.4	589.4	608.2	596.3	582.9	579.4	568.5	569.1
40°	1547.7	785.5	544.8	566.1	564.6	577.5	539.3	552.7	557.7	554.2	554.7
42.5°	1525.9	738.9	531.0	546.3	545.8	520.5	512.1	523.5	536.4	537.8	536.8
45°	1508.5	702.7	516.5	516.1	525.9	486.3	483.9	490.8	509.1	518.0	517.6
47.5°	1489.3	672.5	494.8	480.9	483.9	465.0	461.1	464.1	486.3	500.7	504.6
50°	1465.0	642.4	467.5	448.7	436.3	445.2	446.2	446.7	469.0	485.4	488.8
52.5°	1445.7	619.6	436.3	422.4	407.6	427.4	434.8	435.8	449.2	462.6	465.0
55°	1457.0	606.7	405.6	395.7	382.3	409.1	423.4	425.4	428.4	438.3	439.8
57.5°	1491.2	609.6	380.9	368.0	358.1	387.3	411.5	413.0	411.1	423.0	424.9
60°	1501.6	608.2	362.5	337.2	331.3	364.0	394.2	397.2	396.7	414.1	417.5
62.5°	1458.0	589.4	344.2	311.5	307.6	340.2	370.0	381.9	384.3	409.1	413.5
65°	1355.5	550.8	319.9	284.3	284.3	315.0	346.7	363.0	370.0	403.2	408.1
67.5°	1220.3	505.2	295.2	261.0	260.0	290.7	321.9	338.7	349.7	394.7	397.7
70°	1012.8	443.7	264.5	235.8	235.8	263.5	291.7	312.0	327.8	378.9	378.9
72.5°	693.8	368.9	227.3	207.0	207.5	233.3	262.0	284.8	303.6	347.2	348.2
75°	438.8	288.2	186.7	176.3	178.3	202.6	232.2	256.0	293.7	343.2	344.7
77.5°	233.3	202.6	148.6	146.1	148.6	170.9	204.0	236.7	294.6	297.6	292.7
80°	151.0	143.6	117.4	112.4	113.4	137.7	181.7	224.9	236.7	239.7	228.8
82.5°	82.2	91.1	83.2	78.2	78.2	107.5	155.0	178.8	169.9	141.2	134.7
85°	35.2	42.6	43.1	37.7	36.2	66.4	104.0	97.6	90.6	86.7	85.7
87.5°	9.9	13.9	13.9	10.4	7.9	18.3	20.8	6.0	0.0	0.5	1.0
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)