

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: P646779

Luminaire Tested: **GALN-SA2C-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9365.5 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

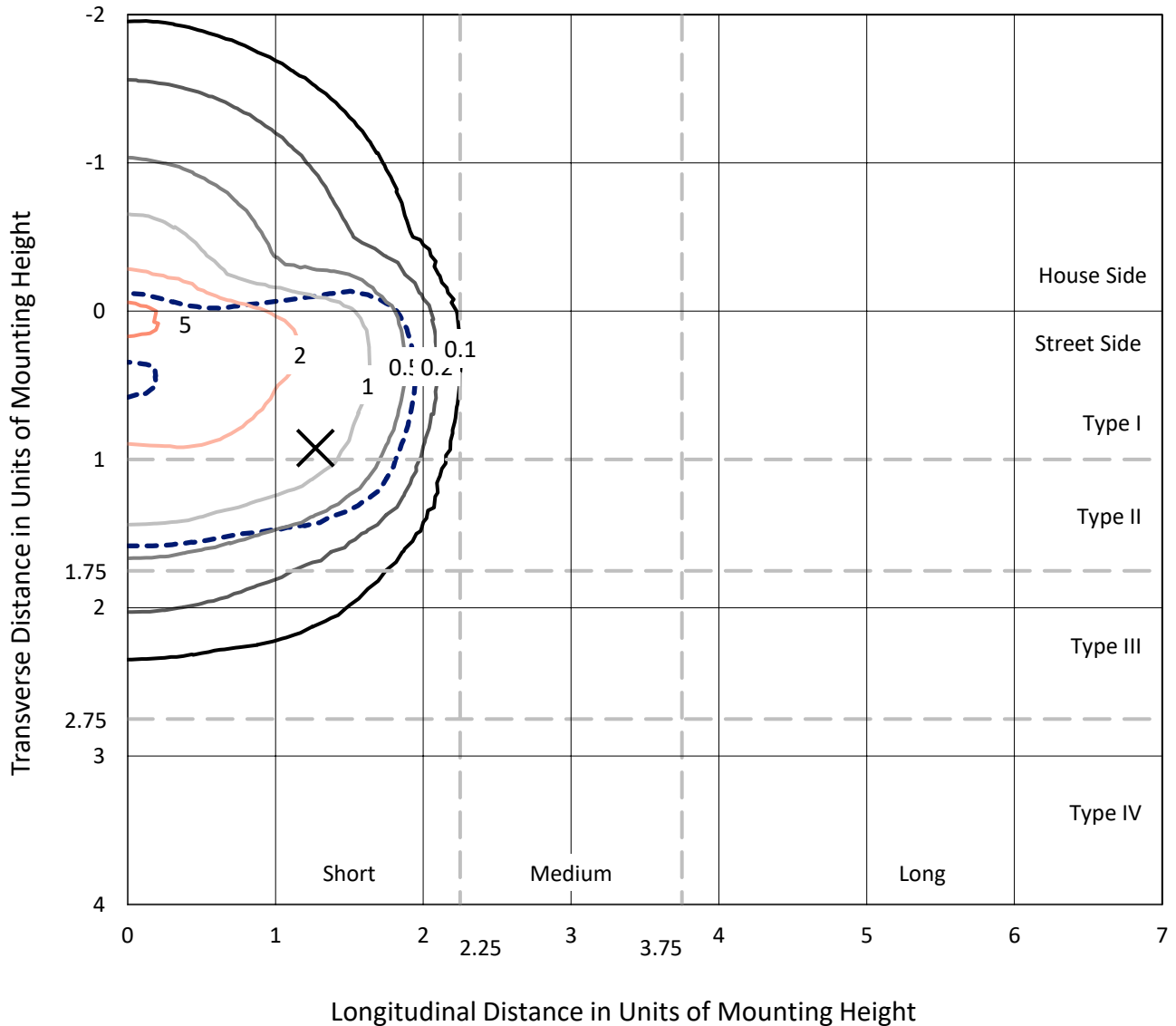
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

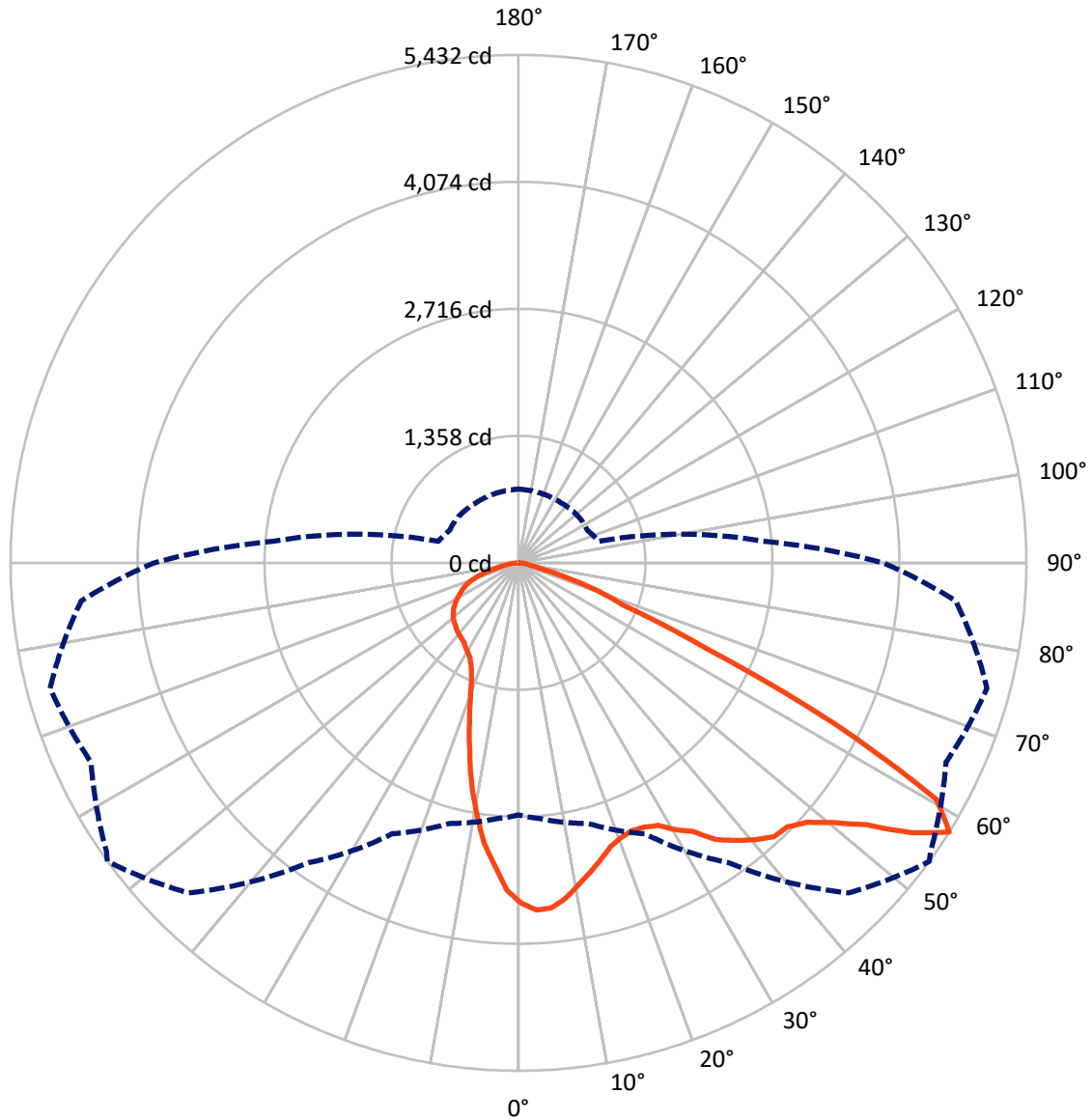
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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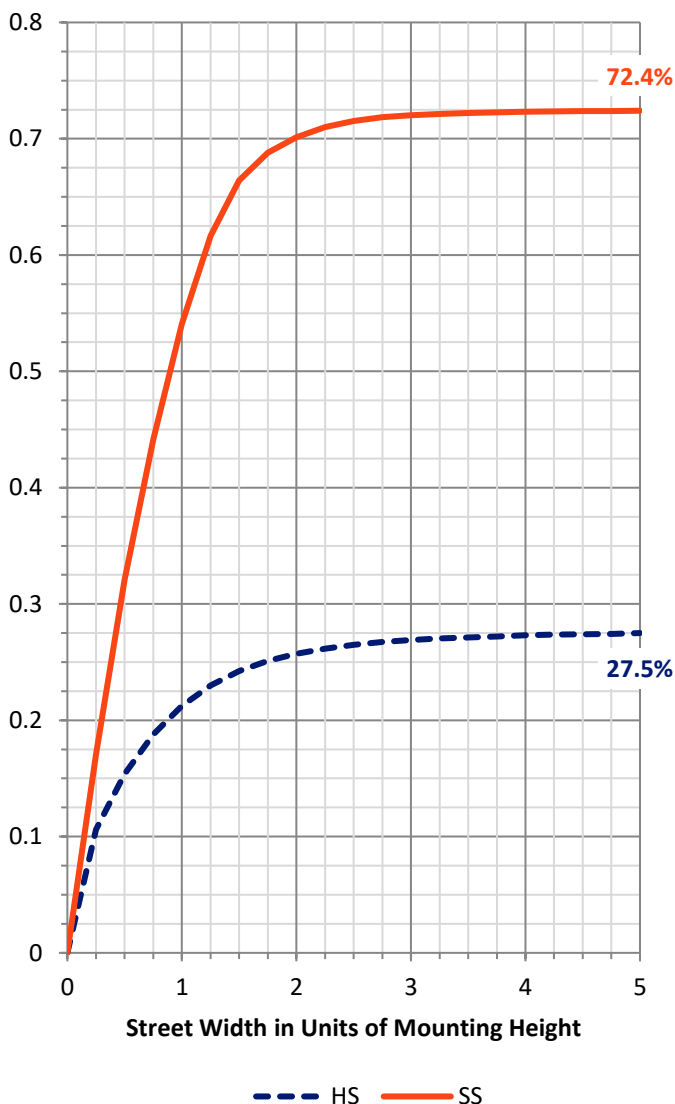
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2591.0	0.0	2591.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	6774.5	0.0	6774.5
	% Fixture	72.3	0.0	72.3
Total	Lumens	9365.5	0.0	9365.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.9	3.4
10°-20°	726.9	7.8
20°-30°	1021.3	10.9
30°-40°	1427.7	15.2
40°-50°	1932.9	20.6
50°-60°	2354.4	25.1
60°-70°	1226.2	13.1
70°-80°	314.2	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°	9365.5	100.0
0°-180°	9365.5	100.0

Coefficient of Utilization



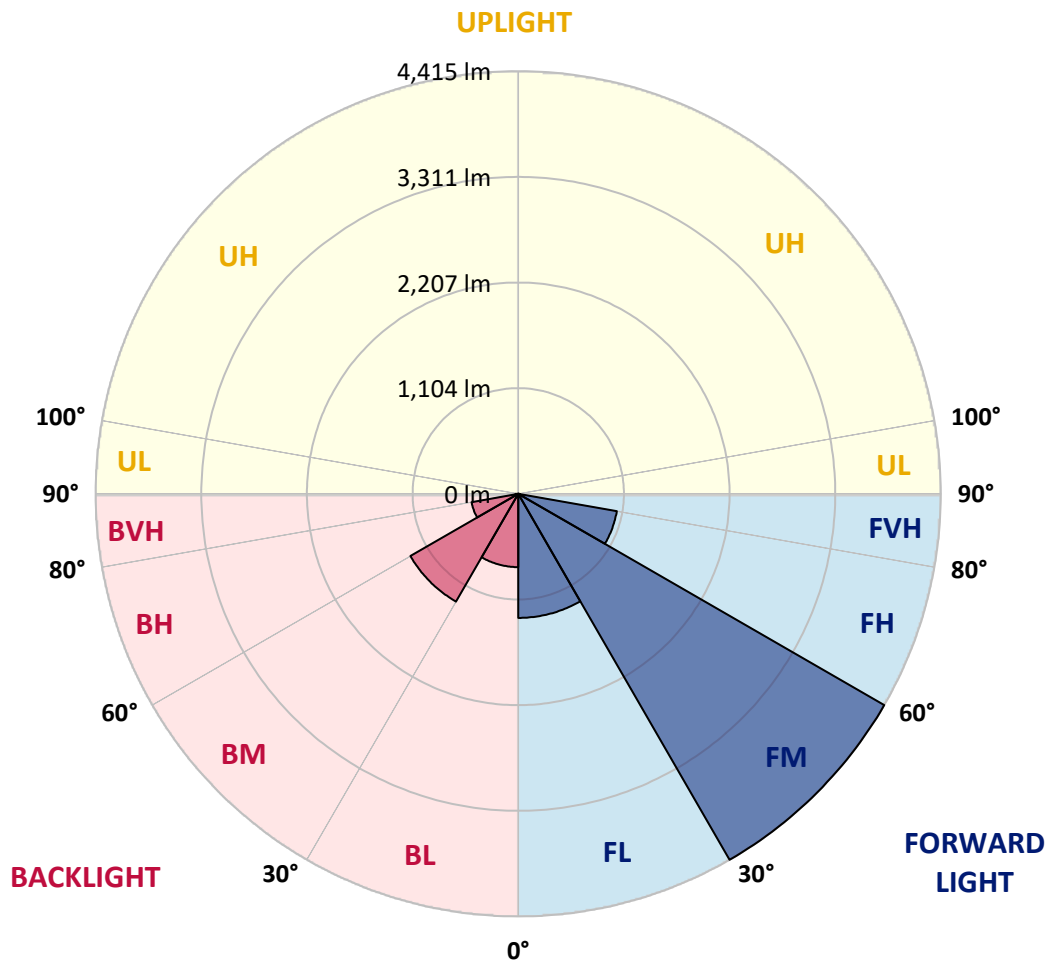
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1296.3	13.8			
FM (30°-60°)	4414.6	47.1			
FH (60°-80°)	1045.5	11.2			G1/1800
FVH (80°-90°)	18.1	0.2			G1/100
BL (0°-30°)	765.8	8.2	B2/1000		
BM (30°-60°)	1300.4	13.9	B2/2500		
BH (60°-80°)	495.0	5.3	B1/500		G1/500
BVH (80°-90°)	29.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2
2.5°	3743.8	3729.4	3731.7	3751.0	3726.9	3717.3	3717.3	3670.3	3674.0	3641.4	3633.0
5°	3657.1	3623.4	3646.3	3675.2	3679.9	3689.6	3705.2	3693.2	3659.5	3624.6	3568.1
7.5°	3430.8	3460.9	3469.3	3489.8	3533.1	3572.8	3622.2	3588.5	3587.3	3552.4	3518.6
10°	3232.1	3214.1	3259.9	3289.9	3362.2	3428.4	3504.2	3500.6	3518.6	3478.9	3421.2
12.5°	3034.8	3020.3	3042.0	3110.5	3211.7	3308.0	3398.3	3364.6	3460.9	3453.7	3329.7
15°	2825.3	2836.1	2867.4	2931.2	3063.6	3179.2	3293.5	3294.8	3380.2	3409.1	3243.0
17.5°	2678.4	2666.3	2706.1	2801.2	2919.2	3057.6	3187.6	3214.1	3345.3	3362.2	3216.5
20°	2568.9	2585.7	2637.5	2685.6	2821.7	2989.0	3135.8	3145.5	3338.1	3383.8	3174.4
22.5°	2542.4	2532.8	2549.6	2627.8	2739.8	2921.6	3108.2	3144.3	3336.9	3376.6	3095.0
25°	2514.7	2546.0	2544.8	2623.0	2704.9	2867.4	3131.1	3170.8	3400.7	3414.0	3105.8
27.5°	2577.3	2573.7	2607.4	2613.4	2714.5	2881.8	3179.2	3209.3	3506.7	3495.8	3114.2
30°	2639.9	2621.9	2642.3	2713.3	2760.3	2964.9	3311.6	3309.2	3643.8	3636.6	3140.7
32.5°	2716.9	2708.6	2721.8	2784.3	2863.8	3075.7	3423.6	3494.6	3783.5	3829.3	3232.1
35°	2731.4	2766.3	2797.6	2881.8	2995.1	3255.0	3634.2	3693.2	3944.8	4088.0	3406.7
37.5°	2822.9	2836.1	2909.5	3058.8	3162.4	3494.6	3767.9	3805.1	4091.6	4254.2	3590.9
40°	2920.4	2936.0	3046.8	3203.3	3345.3	3651.1	3893.1	3905.1	4138.6	4381.7	3711.3
42.5°	3052.8	3067.2	3176.8	3373.0	3563.2	3784.7	4003.8	4017.0	4135.0	4528.6	3902.7
45°	3190.0	3224.9	3353.7	3576.4	3747.4	3941.2	4029.1	4083.3	4168.7	4659.9	4058.0
47.5°	3382.6	3415.1	3521.1	3739.0	3938.8	4078.4	4145.8	4198.8	4249.3	4774.2	4157.9
50°	3587.3	3593.3	3722.1	3919.5	4066.4	4233.7	4363.7	4381.7	4355.3	4906.7	4327.6
52.5°	3737.7	3757.0	3856.9	4049.5	4268.6	4474.5	4652.7	4671.9	4620.1	4956.0	4385.4
55°	3488.6	3477.8	3640.2	3896.7	4404.7	4833.2	5092.0	5106.5	4812.7	5108.8	4574.4
57.5°	2696.5	2748.3	2886.7	3196.0	3913.5	4992.1	5431.5	5379.7	5043.9	5185.9	4694.8
60°	1959.8	1947.7	2040.4	2247.4	2949.2	4302.4	5135.4	5188.3	4854.8	4674.3	3871.4
62.5°	1596.2	1579.4	1586.6	1593.8	1903.2	2855.4	3801.5	3800.4	3739.0	3359.8	2611.0
65°	1276.0	1315.8	1319.4	1373.5	1413.2	1705.8	2202.9	2320.9	2021.2	1657.6	1202.6
67.5°	961.8	947.4	995.5	1188.1	1262.7	1231.5	1202.6	1215.8	864.4	623.6	587.5
70°	567.0	560.9	618.7	828.2	1040.1	978.7	906.5	907.7	593.4	435.7	485.1
72.5°	310.5	309.4	321.4	420.2	591.1	614.0	544.1	560.9	353.9	352.7	379.2
75°	173.4	169.8	166.2	185.4	213.1	225.1	229.9	232.3	243.2	272.1	282.9
77.5°	63.8	61.4	61.4	71.0	90.3	113.1	143.3	145.6	172.1	197.4	208.3
80°	21.7	24.0	32.5	44.6	60.2	80.6	97.5	99.9	121.6	138.4	142.0
82.5°	13.2	14.4	21.7	31.3	43.3	56.6	72.2	73.4	90.3	101.1	105.9
85°	6.0	7.2	12.1	19.3	27.7	37.3	38.5	38.5	37.3	38.5	36.1
87.5°	0.0	0.0	2.4	2.4	2.4	3.6	4.8	3.6	6.0	7.2	7.2
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°	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2	3640.2
2.5°	3607.8	3594.5	3553.6	3517.5	3506.7	3458.5	3387.4	3395.9	3344.1	3368.2	3342.9
5°	3558.4	3513.9	3409.1	3364.6	3247.8	3194.9	3158.7	3068.4	3026.3	3017.9	2981.7
7.5°	3432.0	3404.3	3273.1	3152.7	3028.7	2922.8	2786.8	2694.1	2627.8	2609.8	2556.8
10°	3332.1	3270.7	3088.9	2905.9	2729.0	2544.8	2367.9	2229.4	2162.0	2083.7	2057.3
12.5°	3233.4	3140.7	2895.1	2660.4	2431.7	2199.3	1985.1	1816.5	1669.7	1634.7	1622.7
15°	3172.0	3010.6	2721.8	2438.9	2113.9	1810.5	1596.2	1485.5	1395.1	1357.9	1384.3
17.5°	3091.3	2903.5	2555.6	2178.9	1821.3	1542.0	1362.7	1294.1	1261.6	1265.2	1254.4
20°	2990.2	2802.4	2337.7	1942.9	1560.1	1337.4	1235.1	1209.8	1214.6	1223.0	1219.4
22.5°	2918.0	2679.7	2180.0	1702.2	1348.2	1224.2	1182.1	1164.1	1179.7	1186.9	1180.9
25°	2862.6	2574.9	1988.7	1489.1	1225.5	1160.5	1141.2	1140.0	1164.1	1173.7	1167.7
27.5°	2812.1	2477.4	1798.5	1326.6	1143.6	1111.1	1105.0	1119.5	1135.2	1144.8	1153.2
30°	2781.9	2402.8	1620.3	1190.6	1102.7	1087.0	1076.2	1089.4	1097.8	1107.5	1102.7
32.5°	2810.8	2349.8	1448.2	1113.5	1069.0	1053.3	1067.8	1059.3	1073.8	1082.2	1069.0
35°	2901.1	2302.9	1325.4	1072.6	1030.4	1036.5	1038.9	1035.3	1041.3	1034.0	1049.7
37.5°	2990.2	2286.0	1212.2	1037.6	1012.4	1012.4	1010.0	1002.8	1014.8	1012.4	1019.6
40°	3103.3	2296.9	1115.9	1000.4	995.5	993.2	983.5	982.3	977.5	978.7	981.1
42.5°	3202.1	2320.9	1060.6	976.2	979.8	984.7	966.6	952.2	958.2	946.2	946.2
45°	3306.8	2342.6	1011.2	959.4	955.8	954.6	940.1	931.7	926.9	928.1	939.0
47.5°	3471.7	2373.9	973.9	936.5	939.0	920.9	917.3	906.5	911.3	918.5	919.7
50°	3588.5	2440.1	945.0	910.1	918.5	906.5	884.8	879.9	879.9	892.0	889.6
52.5°	3670.3	2532.8	917.3	881.2	884.8	875.2	868.0	857.1	849.9	866.7	875.2
55°	3920.7	2686.9	910.1	857.1	855.9	846.3	833.0	822.2	818.5	821.0	837.8
57.5°	3896.7	2638.7	887.2	814.9	812.5	799.3	786.1	782.5	781.3	783.6	788.5
60°	3163.6	1949.0	792.1	766.8	763.2	760.8	747.5	733.1	725.9	733.1	727.1
62.5°	2093.4	1304.9	698.2	709.0	711.4	705.4	683.7	669.3	671.7	680.1	666.9
65°	1028.0	766.8	633.2	662.1	664.5	647.6	627.2	610.3	601.9	609.1	603.1
67.5°	587.5	586.2	580.2	610.3	609.1	592.3	559.8	545.3	530.9	533.3	529.7
70°	498.4	508.0	520.1	538.1	536.9	517.6	479.1	468.2	447.8	445.4	439.4
72.5°	392.4	409.3	435.7	449.1	438.2	414.1	388.8	370.8	352.7	341.9	345.5
75°	291.4	315.4	329.8	338.3	321.4	308.2	287.7	266.1	244.4	234.7	231.1
77.5°	211.9	219.1	232.3	238.3	227.5	214.3	202.2	180.6	160.1	146.9	143.3
80°	148.1	152.9	162.5	162.5	162.5	156.5	140.9	119.2	105.9	93.9	91.5
82.5°	103.5	108.4	118.0	113.1	112.0	104.8	95.1	78.2	63.8	55.4	52.9
85°	36.1	39.7	48.2	57.8	61.4	60.2	54.2	43.3	33.7	27.7	25.3
87.5°	8.5	8.5	9.6	8.5	8.5	9.6	8.5	8.5	8.5	6.0	4.8
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)