

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: P647324

Luminaire Tested: **GALN-SA3D-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10554.9 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

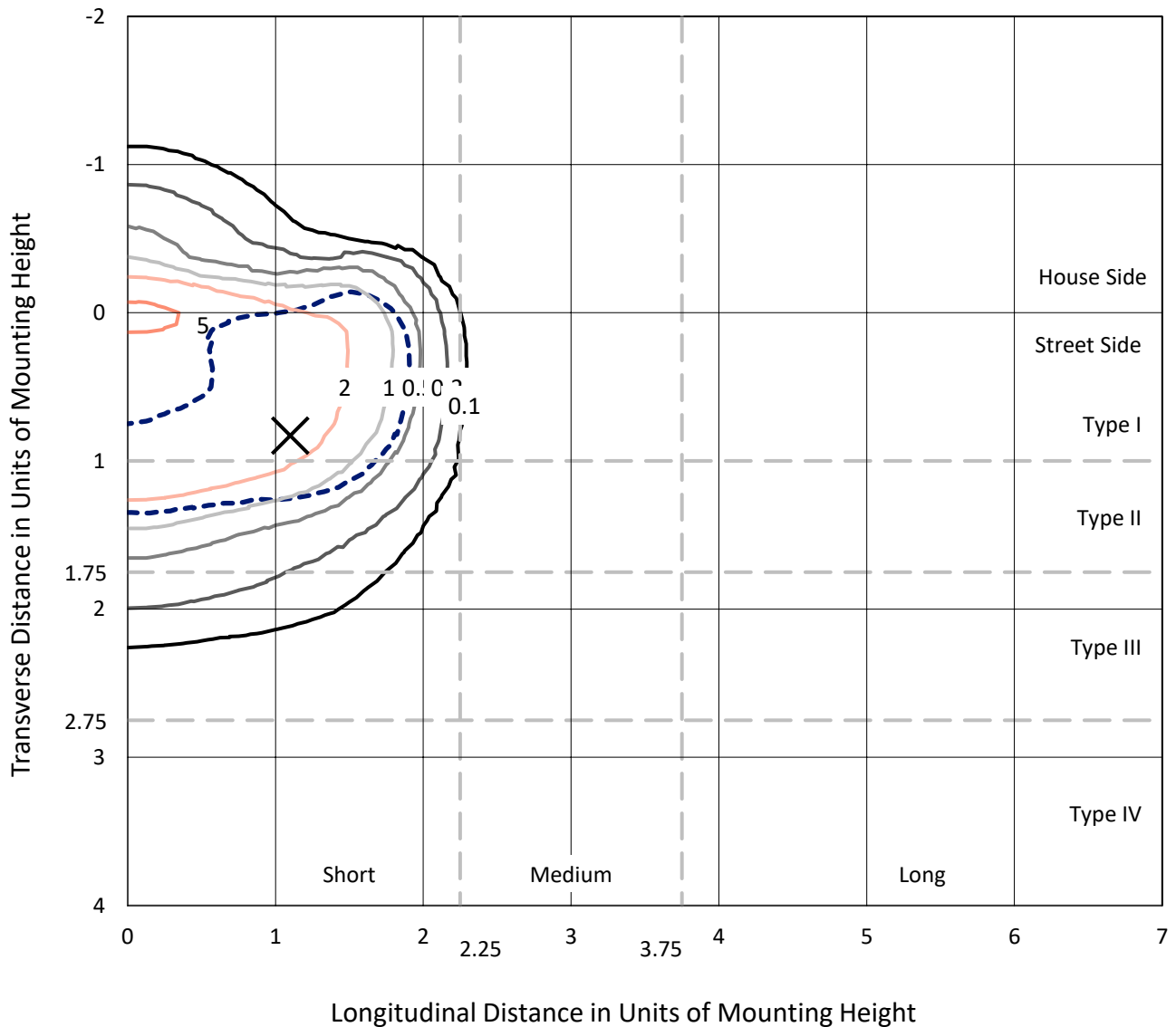
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

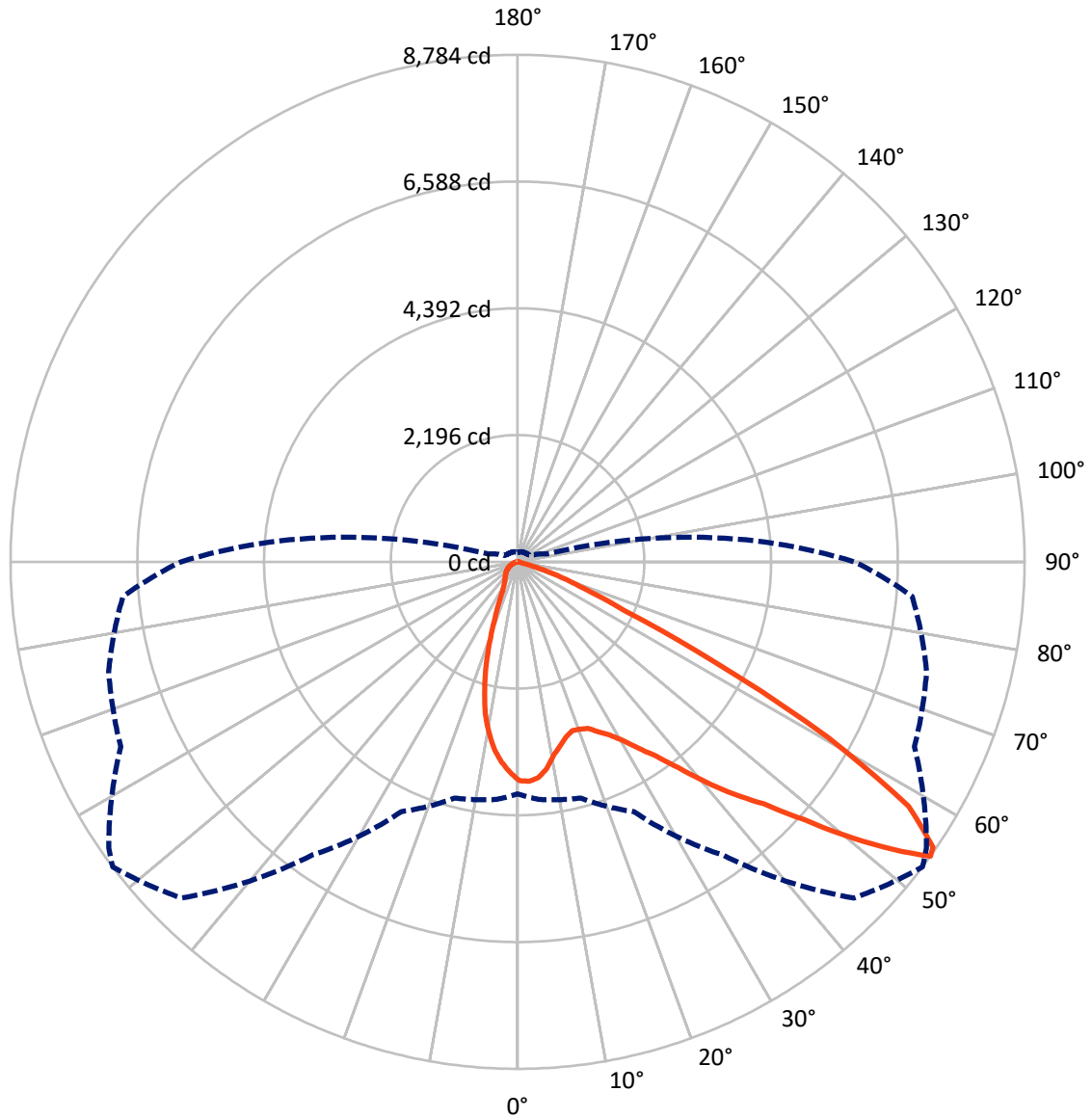
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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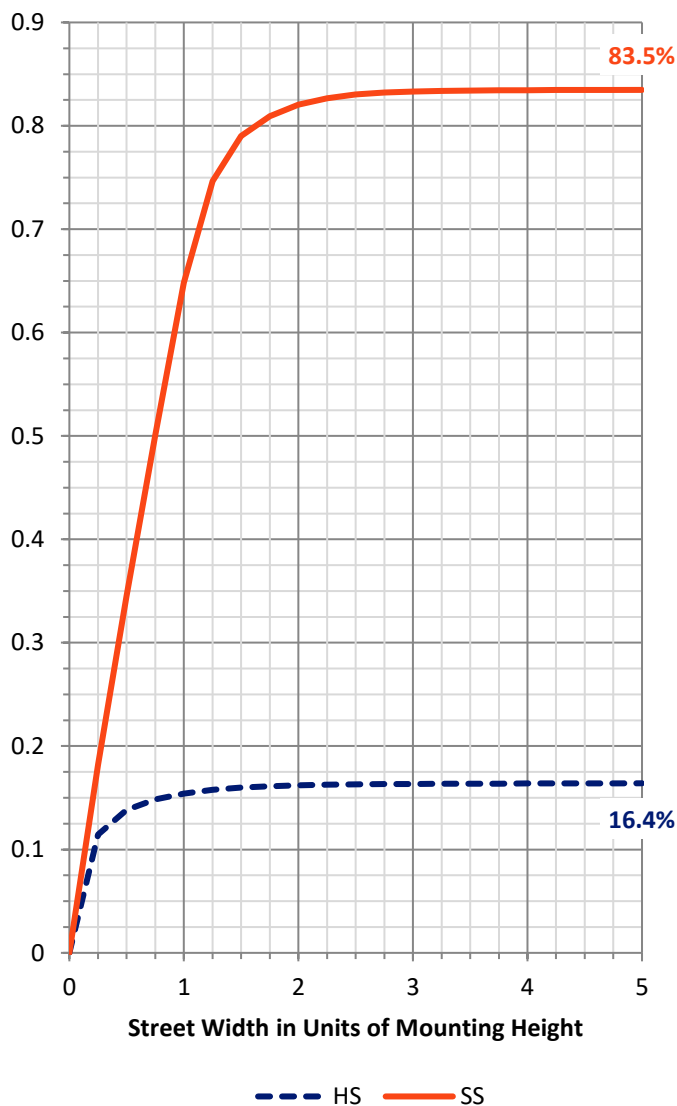
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1746.3	0.0	1746.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8808.5	0.0	8808.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	10554.9	0.0	10554.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.3	3.1
10°-20°	745.7	7.1
20°-30°	1059.9	10.0
30°-40°	1635.6	15.5
40°-50°	2564.5	24.3
50°-60°	2979.1	28.2
60°-70°	1125.7	10.7
70°-80°	107.0	1.0
80°-90°	12.1	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°	10554.9	100.0
0°-180°	10554.9	100.0

Coefficient of Utilization

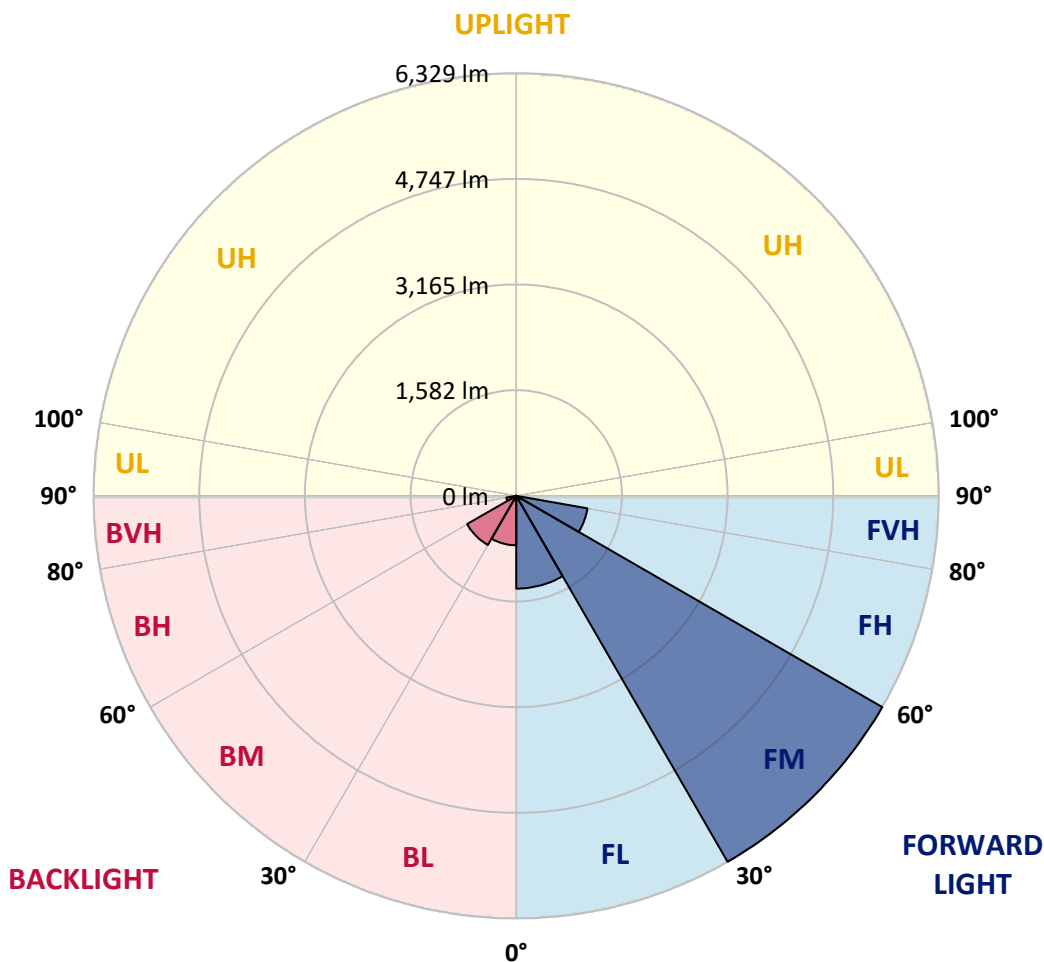


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1389.8	13.2			
FM (30°-60°)	6329.4	60.0			
FH (60°-80°)	1083.1	10.3			G1/1800
FVH (80°-90°)	6.2	0.1			G0/10
BL (0°-30°)	741.1	7.0	B2/1000		
BM (30°-60°)	849.8	8.1	B1/1000		
BH (60°-80°)	149.6	1.4	B1/500		G1/500
BVH (80°-90°)	5.8	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°	53°	55°	65°	75°	85°
0°	3791.1	3791.1	3791.1	3791.1	3791.1	3791.1	3791.1	3791.1	3791.1	3791.1	3791.1
2.5°	3771.5	3738.0	3771.5	3775.4	3799.0	3820.6	3806.9	3838.3	3820.6	3800.9	3795.0
5°	3466.7	3511.9	3513.9	3584.7	3568.9	3698.7	3755.7	3740.0	3836.3	3830.4	3816.7
7.5°	3193.4	3175.7	3199.3	3281.9	3386.1	3535.5	3618.1	3616.1	3753.8	3852.0	3842.3
10°	2939.7	2937.7	2986.9	3051.7	3140.2	3297.6	3411.6	3468.6	3683.0	3832.4	3854.1
12.5°	2768.6	2760.8	2813.9	2867.0	3006.6	3128.5	3274.0	3301.5	3547.3	3763.6	3799.0
15°	2656.6	2674.3	2678.2	2780.4	2868.9	3030.1	3144.2	3201.2	3484.4	3708.5	3844.2
17.5°	2636.9	2660.5	2662.4	2747.0	2841.4	2977.0	3077.3	3154.0	3431.3	3736.1	3846.2
20°	2676.2	2662.4	2674.3	2727.3	2819.7	2949.6	3095.0	3120.6	3413.6	3749.9	3867.8
22.5°	2788.3	2784.3	2754.8	2798.1	2863.0	2998.7	3136.3	3175.7	3464.7	3820.6	3885.5
25°	2912.1	2933.8	2906.3	2900.4	2945.6	3079.3	3262.1	3313.3	3635.8	3948.4	3940.5
27.5°	3144.2	3122.5	3122.5	3095.0	3083.2	3148.1	3397.8	3482.4	3826.5	4113.6	4003.5
30°	3366.4	3390.0	3372.3	3382.1	3303.5	3297.6	3590.5	3694.7	4164.7	4365.3	4137.2
32.5°	3718.4	3686.9	3716.4	3690.8	3586.6	3480.4	3852.0	3960.3	4573.7	4654.3	4337.7
35°	4011.4	3997.6	4123.4	4119.5	3950.4	3846.2	4129.3	4290.6	4858.8	5000.4	4573.7
37.5°	4428.3	4402.7	4546.2	4615.0	4463.6	4308.3	4526.5	4713.3	5124.3	5277.7	4815.6
40°	4856.9	4921.8	5114.5	5228.5	5067.3	4860.8	5012.2	5069.2	5301.3	5458.6	4980.7
42.5°	5399.6	5494.0	5690.6	5789.0	5775.2	5551.0	5505.7	5503.8	5429.1	5407.5	5102.7
45°	5920.7	5885.3	6188.1	6402.4	6575.5	6510.6	5981.7	5922.6	5631.6	5484.1	5134.1
47.5°	6148.7	6137.0	6343.5	6725.0	7314.8	7395.4	6673.8	6445.7	5973.7	5806.6	5305.2
50°	5853.8	5914.8	6119.3	6542.0	7446.6	8062.0	7523.2	7216.5	6372.9	6199.9	5710.3
52.5°	4890.3	4931.6	5126.3	5663.0	6998.2	8455.3	8337.3	8160.3	7106.4	6819.3	6416.2
54°	4021.2	4131.3	4237.5	4776.3	6199.9	8237.0	8783.7	8648.0	7584.2	7334.5	6860.6
55°	3502.0	3567.0	3643.6	4180.4	5647.4	7867.3	8732.6	8744.4	7904.7	7495.7	7159.4
57.5°	2558.2	2603.5	2524.8	2762.7	3877.7	6388.7	7987.3	8305.8	8337.3	7737.6	7342.3
60°	1954.5	1974.2	1885.7	1923.1	2410.8	4385.0	6178.3	6561.7	7521.3	6762.3	6219.5
62.5°	1516.0	1520.0	1518.0	1582.9	1661.5	2579.8	3863.9	4204.1	5185.3	4801.8	4223.7
65°	1116.9	1099.2	1130.7	1327.3	1417.7	1622.2	2035.2	2282.9	2817.8	2379.3	1700.9
67.5°	723.6	729.5	761.0	987.1	1215.2	1244.7	1252.6	1232.9	1234.9	680.3	426.7
70°	434.6	444.4	434.6	558.4	869.1	892.7	816.0	796.4	621.4	161.2	159.3
72.5°	257.6	243.8	218.3	239.9	361.8	432.6	389.3	387.4	243.8	94.4	94.4
75°	108.1	98.3	80.6	72.7	96.4	92.4	92.4	82.6	64.9	63.0	59.0
77.5°	21.6	21.6	15.7	17.7	23.6	27.6	33.4	33.4	39.3	39.3	37.3
80°	0.0	2.0	5.9	11.8	17.7	25.5	29.5	29.5	33.4	33.4	27.6
82.5°	0.0	2.0	5.9	11.8	15.7	23.6	29.5	29.5	33.4	35.4	29.5
85°	0.0	2.0	5.9	9.9	15.7	19.7	19.7	17.7	13.8	11.8	7.8
87.5°	0.0	0.0	2.0	3.9	2.0	3.9	3.9	3.9	3.9	3.9	3.9
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°	3791.1	3791.1	3791.1	3791.1	3791.1	3791.1	3791.1	3791.1	3791.1	3791.1	3791.1
2.5°	3808.8	3806.9	3759.7	3683.0	3665.3	3600.4	3592.5	3553.2	3574.8	3502.0	3494.2
5°	3777.3	3753.8	3696.7	3647.6	3504.0	3401.8	3321.2	3222.8	3165.8	3175.7	3138.3
7.5°	3822.6	3761.6	3661.3	3490.3	3315.3	3136.3	3040.0	2839.4	2766.7	2658.5	2642.8
10°	3775.4	3730.1	3574.8	3291.7	3049.8	2792.2	2566.0	2343.9	2174.8	2102.0	2086.3
12.5°	3771.5	3692.8	3433.2	3118.6	2768.6	2399.0	2070.6	1793.3	1626.1	1531.8	1510.2
15°	3710.5	3616.1	3274.0	2851.2	2367.5	1907.4	1549.5	1282.1	1154.2	1099.2	1114.9
17.5°	3716.4	3574.8	3114.7	2568.1	1972.2	1400.0	1057.9	920.3	886.8	900.6	900.6
20°	3710.5	3482.4	2922.0	2241.7	1510.2	971.4	776.7	727.6	749.2	792.5	782.6
22.5°	3679.0	3439.2	2745.0	1897.5	1111.0	719.7	623.3	625.3	658.7	711.8	723.6
25°	3702.7	3342.8	2520.9	1549.5	810.2	574.2	540.7	554.5	589.9	629.2	637.1
27.5°	3685.0	3274.0	2286.8	1203.4	591.9	493.5	491.6	507.3	523.0	552.6	552.6
30°	3704.6	3211.1	2056.8	894.7	487.7	452.3	444.4	456.2	471.9	477.8	475.8
32.5°	3777.3	3163.9	1791.3	668.5	430.6	413.0	413.0	413.0	411.0	418.8	420.8
35°	3936.6	3171.7	1557.4	517.2	393.3	379.5	373.6	365.7	361.8	365.7	367.7
37.5°	4109.7	3167.8	1315.5	440.4	365.7	353.9	340.2	328.4	326.4	330.3	324.5
40°	4186.4	3205.1	1091.3	395.3	340.2	326.4	304.8	295.0	296.9	300.8	296.9
42.5°	4290.6	3217.0	945.8	359.9	316.6	295.0	281.2	269.4	267.4	273.3	271.4
45°	4288.6	3150.1	792.5	340.2	295.0	271.4	253.7	243.8	243.8	247.7	249.7
47.5°	4414.5	3140.2	680.3	322.5	279.2	255.6	234.0	226.1	224.2	224.2	220.3
50°	4707.5	3277.9	593.8	302.8	259.6	238.0	220.3	210.4	202.6	198.6	196.6
52.5°	5279.6	3706.6	527.0	279.2	238.0	220.3	204.5	196.6	186.8	177.0	175.0
54°	5834.1	4149.0	523.0	259.6	220.3	208.4	194.7	190.7	178.9	165.1	161.2
55°	6083.9	4406.6	536.8	243.8	208.4	200.6	188.8	184.9	173.0	157.3	155.3
57.5°	6290.4	4506.9	528.9	202.6	188.8	186.8	177.0	171.1	157.3	135.7	131.8
60°	5063.3	3407.7	379.5	178.9	173.0	169.1	161.2	157.3	139.6	116.0	114.1
62.5°	3199.3	1960.5	241.9	157.3	151.4	145.5	135.7	131.8	116.0	92.4	86.5
65°	1362.7	812.1	163.2	139.6	129.7	120.0	112.0	106.2	92.4	68.8	66.9
67.5°	353.9	289.1	135.7	121.9	108.1	94.4	88.5	78.7	63.0	47.2	45.3
70°	159.3	145.5	114.1	102.3	86.5	72.7	64.9	55.0	41.3	31.5	29.5
72.5°	94.4	92.4	86.5	76.7	64.9	55.0	47.2	37.3	27.6	17.7	17.7
75°	59.0	57.0	59.0	53.1	45.3	41.3	35.4	25.5	15.7	7.8	7.8
77.5°	35.4	35.4	35.4	33.4	31.5	31.5	25.5	15.7	7.8	2.0	2.0
80°	27.6	27.6	29.5	27.6	27.6	27.6	21.6	11.8	3.9	0.0	0.0
82.5°	27.6	29.5	33.4	31.5	27.6	23.6	19.7	11.8	3.9	0.0	0.0
85°	7.8	5.9	9.9	13.8	19.7	17.7	13.8	9.9	3.9	0.0	0.0
87.5°	3.9	3.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	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)