

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: P529621

Luminaire Tested: **GALN-SA4D-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17024 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

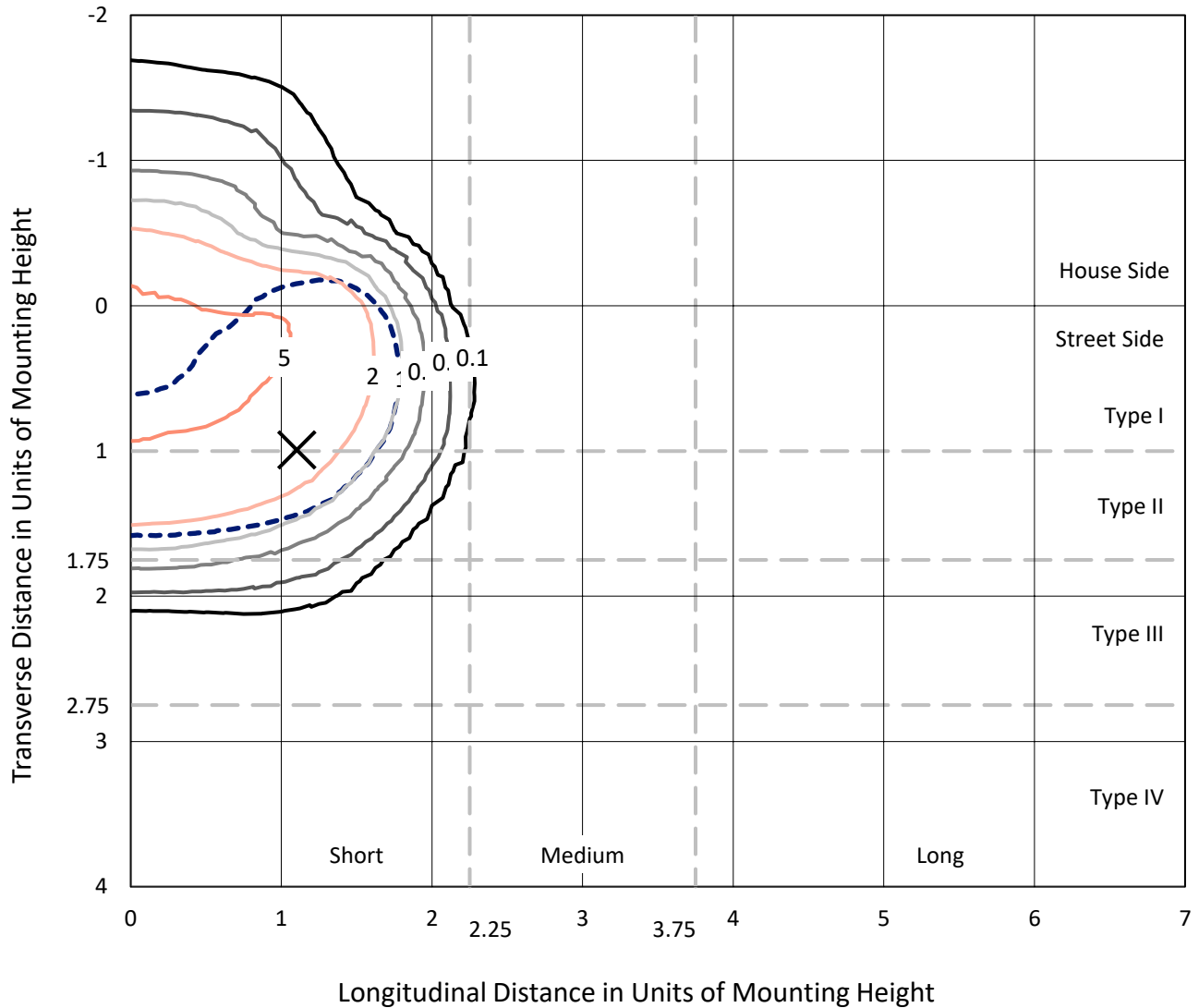
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

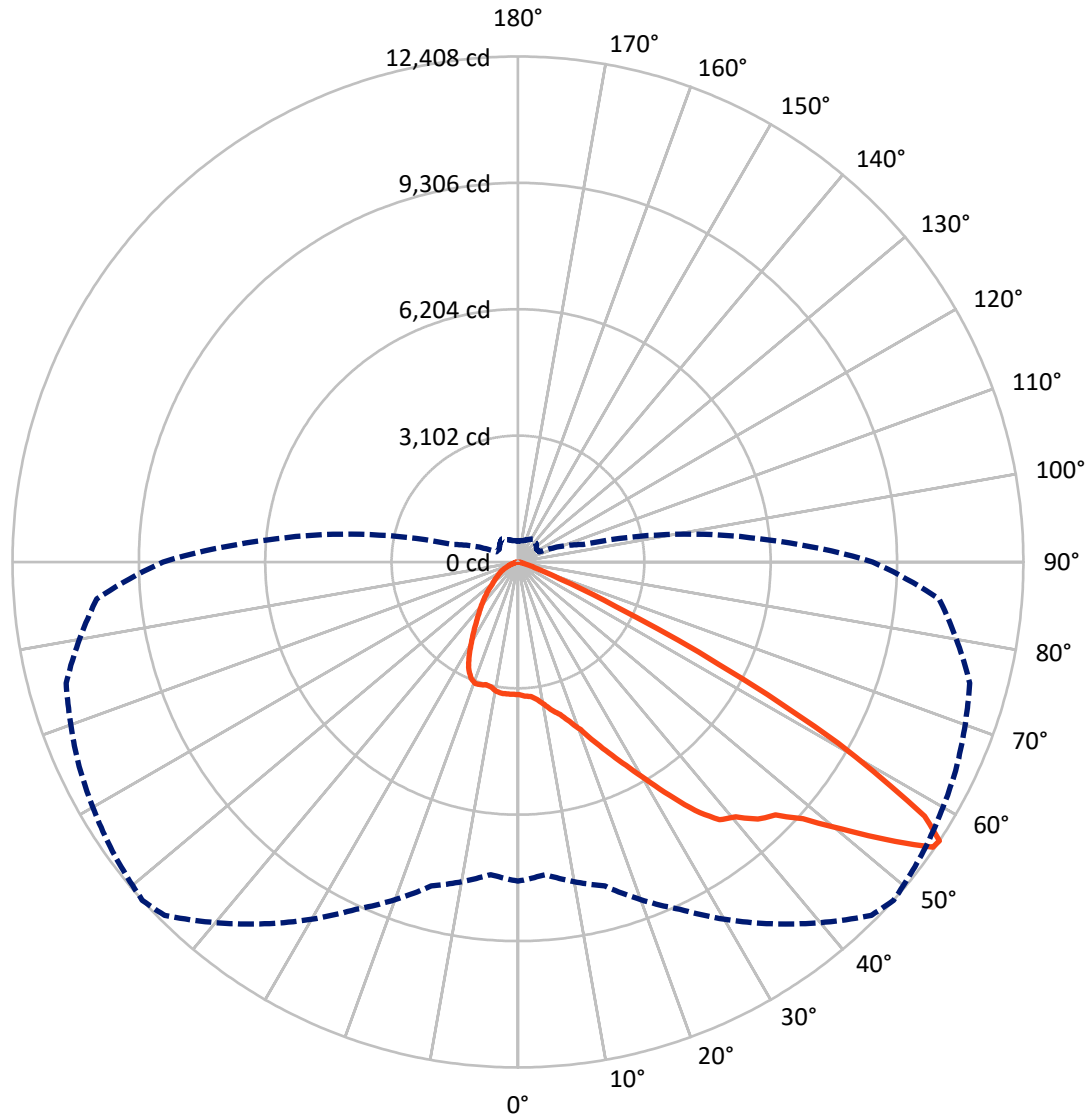
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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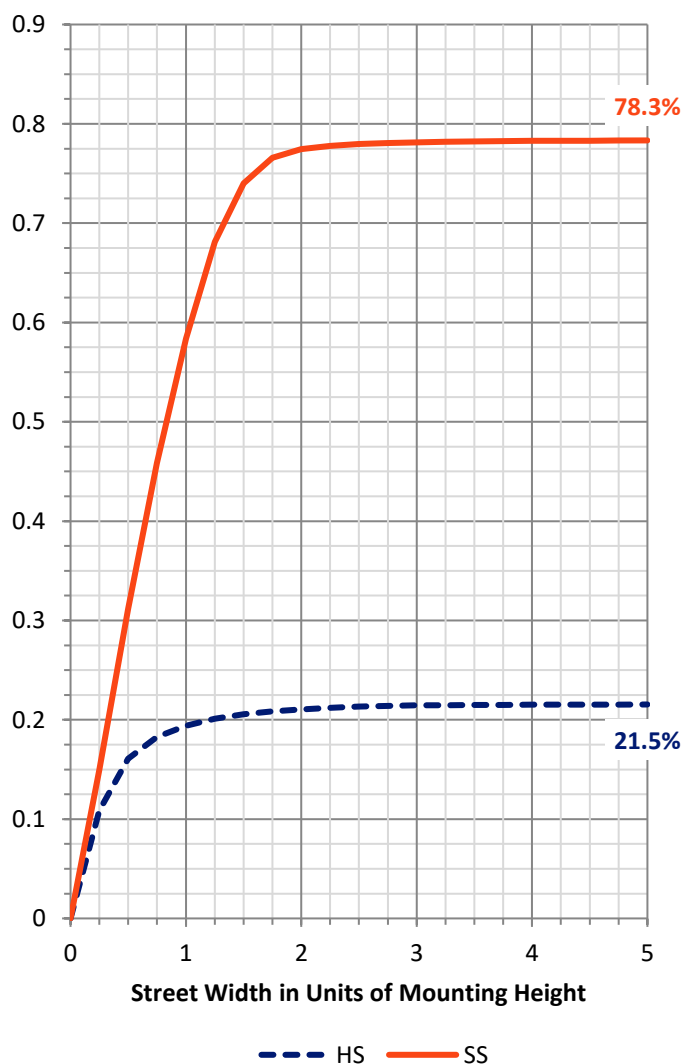
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3702.4	0.0	3702.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	13321.6	0.0	13321.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	17024.0	0.0	17024.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.7	1.9
10°-20°	1012.2	5.9
20°-30°	1836.0	10.8
30°-40°	2884.0	16.9
40°-50°	4207.2	24.7
50°-60°	5068.9	29.8
60°-70°	1484.1	8.7
70°-80°	188.3	1.1
80°-90°	26.4	0.2
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°	17024.0	100.0
0°-180°	17024.0	100.0

Coefficient of Utilization

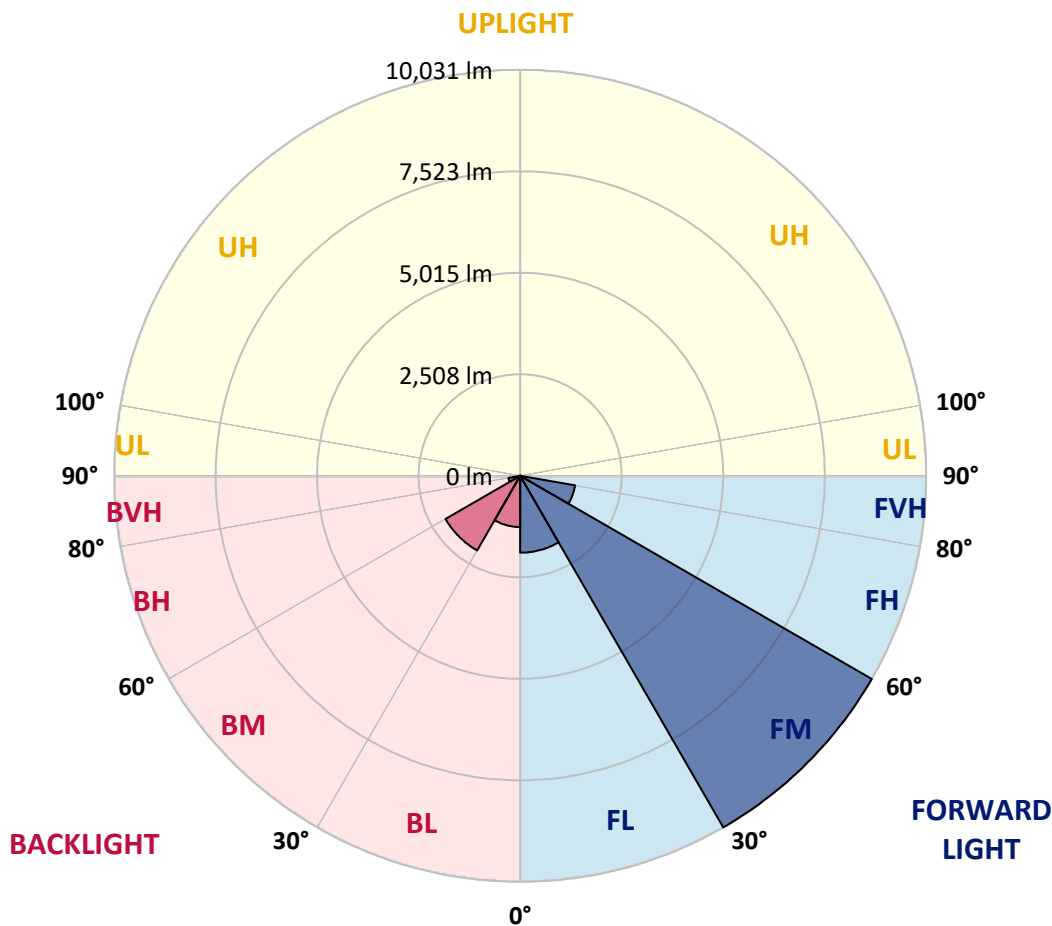


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1899.5	11.2			
FM (30°-60°)	10030.6	58.9			
FH (60°-80°)	1378.2	8.1			G1/1800
FVH (80°-90°)	13.3	0.1			G1/100
BL (0°-30°)	1265.5	7.4	B3/2500		
BM (30°-60°)	2129.6	12.5	B2/2500		
BH (60°-80°)	294.2	1.7	B1/500		G1/500
BVH (80°-90°)	13.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6
2.5°	3310.5	3295.0	3295.0	3270.2	3298.1	3285.7	3295.0	3264.0	3295.0	3248.5	3285.7
5°	3326.0	3329.1	3316.7	3332.2	3332.2	3350.8	3319.8	3347.7	3363.2	3329.1	3313.6
7.5°	3406.6	3412.8	3409.7	3397.3	3422.1	3419.0	3415.9	3394.2	3400.4	3388.0	3369.4
10°	3564.7	3561.6	3577.1	3546.1	3527.5	3549.2	3555.4	3521.3	3496.5	3487.2	3428.3
12.5°	3794.0	3756.8	3735.1	3704.1	3713.4	3682.5	3738.2	3679.4	3667.0	3611.2	3552.3
15°	3980.0	3973.8	3976.9	3927.3	3871.5	3883.9	3883.9	3852.9	3834.3	3766.1	3682.5
17.5°	4361.3	4231.1	4259.0	4197.0	4150.5	4147.4	4119.5	4125.7	4076.1	3933.5	3806.4
20°	4658.9	4603.1	4559.7	4454.3	4383.0	4404.7	4392.3	4361.3	4345.8	4159.8	3980.0
22.5°	4925.4	4944.0	4872.7	4844.8	4745.6	4754.9	4779.7	4751.8	4634.1	4441.9	4175.3
25°	5300.5	5278.8	5182.7	5148.6	5055.6	5089.7	5185.8	5164.1	5089.7	4742.5	4327.2
27.5°	5743.8	5669.4	5688.0	5533.0	5443.1	5539.2	5653.9	5762.4	5551.6	5095.9	4507.0
30°	6056.8	5979.3	5973.1	5966.9	5945.2	6056.8	6190.1	6289.3	6118.8	5449.3	4804.5
32.5°	6211.8	6230.4	6283.1	6264.5	6453.6	6683.0	6822.5	6965.0	6751.2	6025.8	5198.2
35°	6624.1	6506.3	6624.1	6636.5	6831.8	7318.4	7495.1	7836.1	7783.4	6841.1	5678.7
37.5°	6865.8	6856.5	6872.0	6989.8	7178.9	7780.3	8031.3	8294.8	8195.6	7330.8	6276.9
40°	7265.7	7290.5	7287.4	7377.3	7585.0	8127.4	8229.7	8443.6	8452.9	8009.6	7157.2
42.5°	7907.3	7808.2	7743.1	7836.1	8127.4	8428.1	8632.7	8589.3	8896.2	8834.2	8288.6
45°	8483.9	8542.8	8446.7	8601.7	8707.1	8868.3	8862.1	8955.0	9345.6	9640.1	9141.0
47.5°	9023.2	9060.4	9106.9	9212.3	9441.7	9466.5	9413.8	9373.5	9912.9	10216.6	9801.3
50°	9345.6	9379.7	9596.7	9785.8	10213.5	10269.3	10300.3	10198.0	10563.8	10597.9	10424.3
52.5°	9258.8	9296.0	9599.8	10222.8	10904.8	11416.2	11323.2	11149.6	11127.9	11261.2	11000.9
55°	8490.1	8456.0	8874.5	9844.7	11121.7	12349.2	12361.6	12178.7	11828.5	11738.6	10914.1
56°	7836.1	7702.8	8235.9	9407.6	10842.8	12268.6	12408.1	12212.8	11884.3	11481.3	10377.8
57.5°	6419.5	6546.6	7076.6	8046.8	9878.8	11689.0	11769.6	11723.1	11475.1	10799.4	9131.7
60°	3539.9	3763.0	4231.1	5418.3	7033.2	8970.5	9035.6	9413.8	9460.3	8270.0	6283.1
62.5°	1503.4	1478.6	1965.2	2839.3	4004.8	5415.2	5536.1	5923.5	5994.8	4767.3	3152.4
65°	610.6	644.7	889.6	1429.0	2117.1	2467.4	2637.8	2764.9	3000.5	1968.3	1162.4
67.5°	403.0	399.9	523.9	815.2	1140.7	1100.4	1100.4	1162.4	1075.6	802.8	502.2
70°	288.3	297.6	375.1	564.1	709.8	526.9	505.3	483.6	548.6	530.0	406.1
72.5°	189.1	201.5	251.1	337.9	368.9	288.3	288.3	347.2	452.6	427.8	331.7
75°	124.0	127.1	155.0	195.3	182.9	148.8	164.3	232.5	328.6	316.2	235.6
77.5°	83.7	86.8	105.4	127.1	102.3	83.7	89.9	117.8	161.2	161.2	124.0
80°	31.0	34.1	43.4	40.3	46.5	58.9	65.1	80.6	96.1	96.1	83.7
82.5°	0.0	3.1	9.3	21.7	34.1	46.5	52.7	62.0	71.3	80.6	77.5
85°	0.0	3.1	9.3	15.5	24.8	27.9	31.0	21.7	18.6	18.6	15.5
87.5°	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	6.2	3.1	3.1
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°	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6	3251.6
2.5°	3251.6	3248.5	3248.5	3239.2	3257.8	3248.5	3254.7	3251.6	3211.3	3242.3	3220.6
5°	3285.7	3307.4	3273.3	3267.1	3242.3	3251.6	3251.6	3220.6	3248.5	3245.4	3239.2
7.5°	3372.5	3335.3	3298.1	3260.9	3254.7	3245.4	3211.3	3198.9	3220.6	3195.8	3233.0
10°	3409.7	3415.9	3360.1	3310.5	3264.0	3198.9	3152.4	3124.5	3090.4	3127.6	3149.3
12.5°	3580.2	3518.2	3422.1	3344.6	3186.5	3121.4	3074.9	3062.5	3121.4	3133.8	3112.1
15°	3639.1	3629.8	3505.8	3332.2	3167.9	3090.4	3099.7	3074.9	3081.1	3050.1	3056.3
17.5°	3759.9	3654.6	3508.9	3291.9	3164.8	3146.2	3090.4	2991.2	2935.4	2910.6	2932.3
20°	3893.2	3790.9	3580.2	3307.4	3192.7	3143.1	2960.2	2839.3	2724.6	2662.6	2665.7
22.5°	4011.0	3883.9	3549.2	3313.6	3217.5	3012.9	2792.8	2554.2	2411.6	2315.5	2318.6
25°	4153.6	3973.8	3561.6	3326.0	3152.4	2805.2	2489.1	2256.6	2086.1	2021.0	2042.7
27.5°	4234.2	4029.6	3629.8	3353.9	2981.9	2510.8	2169.8	1952.8	1853.6	1822.6	1819.5
30°	4476.0	4153.6	3713.4	3298.1	2696.7	2194.6	1878.4	1745.1	1649.0	1621.1	1627.3
32.5°	4835.5	4379.9	3821.9	3152.4	2405.4	1912.5	1689.3	1590.1	1500.3	1447.6	1441.4
35°	5136.2	4767.3	3936.6	2926.1	2067.5	1695.5	1556.1	1432.1	1295.7	1236.8	1221.3
37.5°	5709.7	5204.4	3911.8	2585.2	1745.1	1534.4	1413.5	1261.6	1143.8	1063.2	1053.9
40°	6472.2	5715.9	3790.9	2169.8	1506.5	1391.8	1261.6	1115.9	970.2	902.0	895.8
42.5°	7399.0	6342.0	3570.9	1748.2	1267.8	1249.2	1131.4	964.0	833.8	784.2	787.3
45°	8152.2	6878.2	3347.7	1404.2	1091.1	1109.7	1007.4	849.3	759.4	719.1	719.1
47.5°	8821.8	7240.9	3105.9	1159.3	926.8	970.2	880.3	787.3	709.8	678.8	672.6
50°	9466.5	7609.8	2864.1	939.2	790.4	833.8	824.5	750.1	688.1	650.9	654.0
52.5°	9869.5	7668.7	2557.3	768.7	691.2	740.8	771.8	703.6	635.4	613.7	607.5
55°	9376.6	6909.2	1983.8	632.3	585.8	650.9	709.8	632.3	579.6	542.4	539.3
56°	8713.3	6177.7	1658.3	582.7	554.8	626.1	688.1	604.4	545.5	523.9	508.4
57.5°	7377.3	5055.6	1224.4	517.7	514.6	582.7	654.0	576.5	508.4	489.8	489.8
60°	4600.0	2845.5	740.8	434.0	446.4	517.7	588.9	514.6	452.6	452.6	461.9
62.5°	2095.4	1184.1	449.5	368.9	384.4	446.4	523.9	465.0	430.9	465.0	471.2
65°	712.9	511.5	325.5	294.5	303.8	368.9	449.5	471.2	468.1	489.8	502.2
67.5°	399.9	328.6	272.8	244.9	238.7	272.8	368.9	471.2	452.6	443.3	449.5
70°	337.9	279.0	241.8	217.0	207.7	220.1	285.2	356.5	319.3	310.0	303.8
72.5°	272.8	232.5	210.8	195.3	167.4	142.6	130.2	136.4	151.9	161.2	176.7
75°	192.2	176.7	176.7	158.1	120.9	89.9	71.3	58.9	40.3	27.9	31.0
77.5°	108.5	108.5	111.6	96.1	77.5	58.9	43.4	31.0	15.5	6.2	3.1
80°	74.4	80.6	86.8	77.5	65.1	52.7	37.2	21.7	9.3	0.0	0.0
82.5°	74.4	83.7	89.9	77.5	65.1	49.6	37.2	21.7	9.3	3.1	0.0
85°	15.5	18.6	21.7	24.8	37.2	37.2	27.9	18.6	9.3	3.1	0.0
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	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)