

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: P531250

Luminaire Tested: **GALN-SA6C-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531250
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-SA6C-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 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: 32855 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

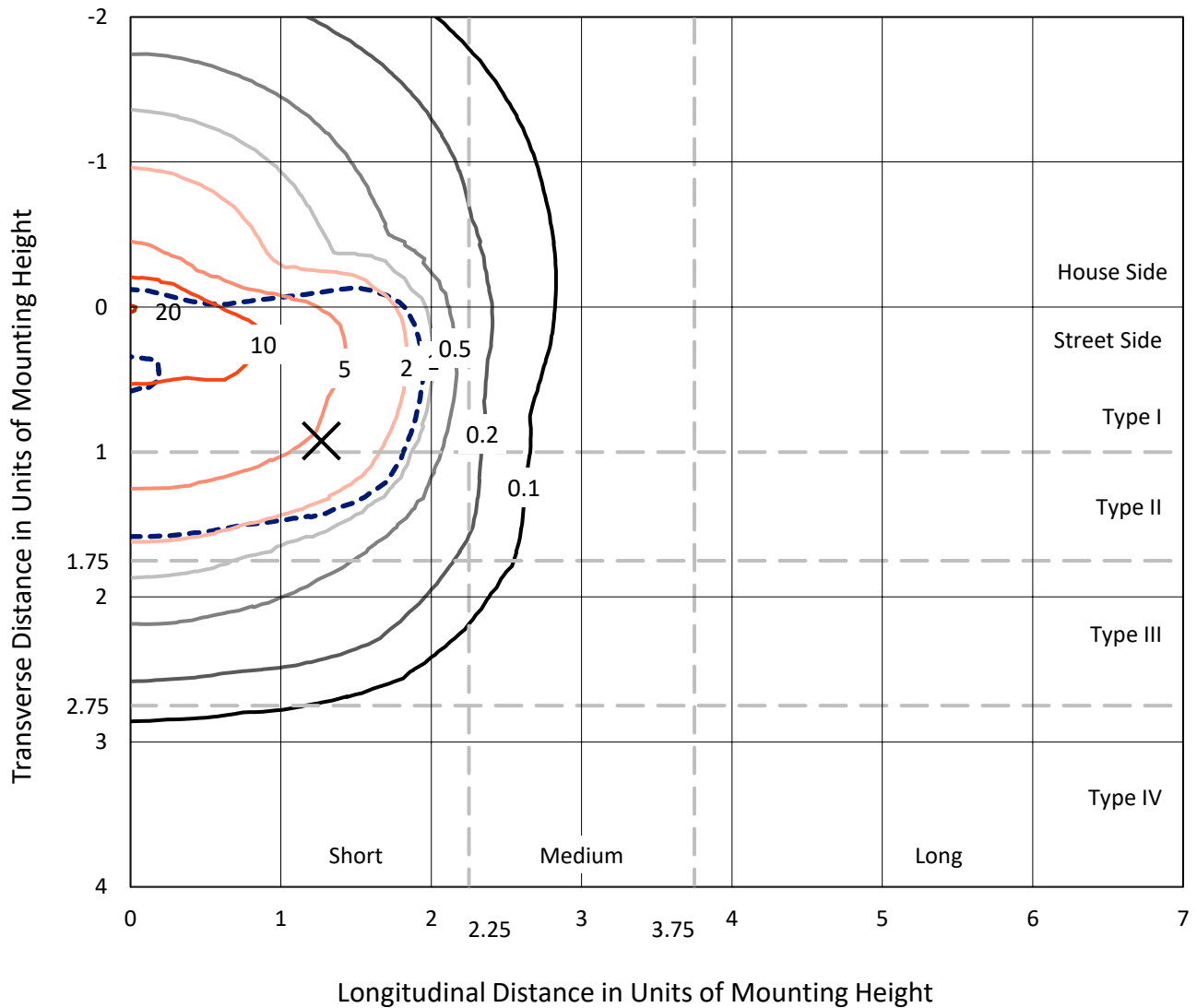
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

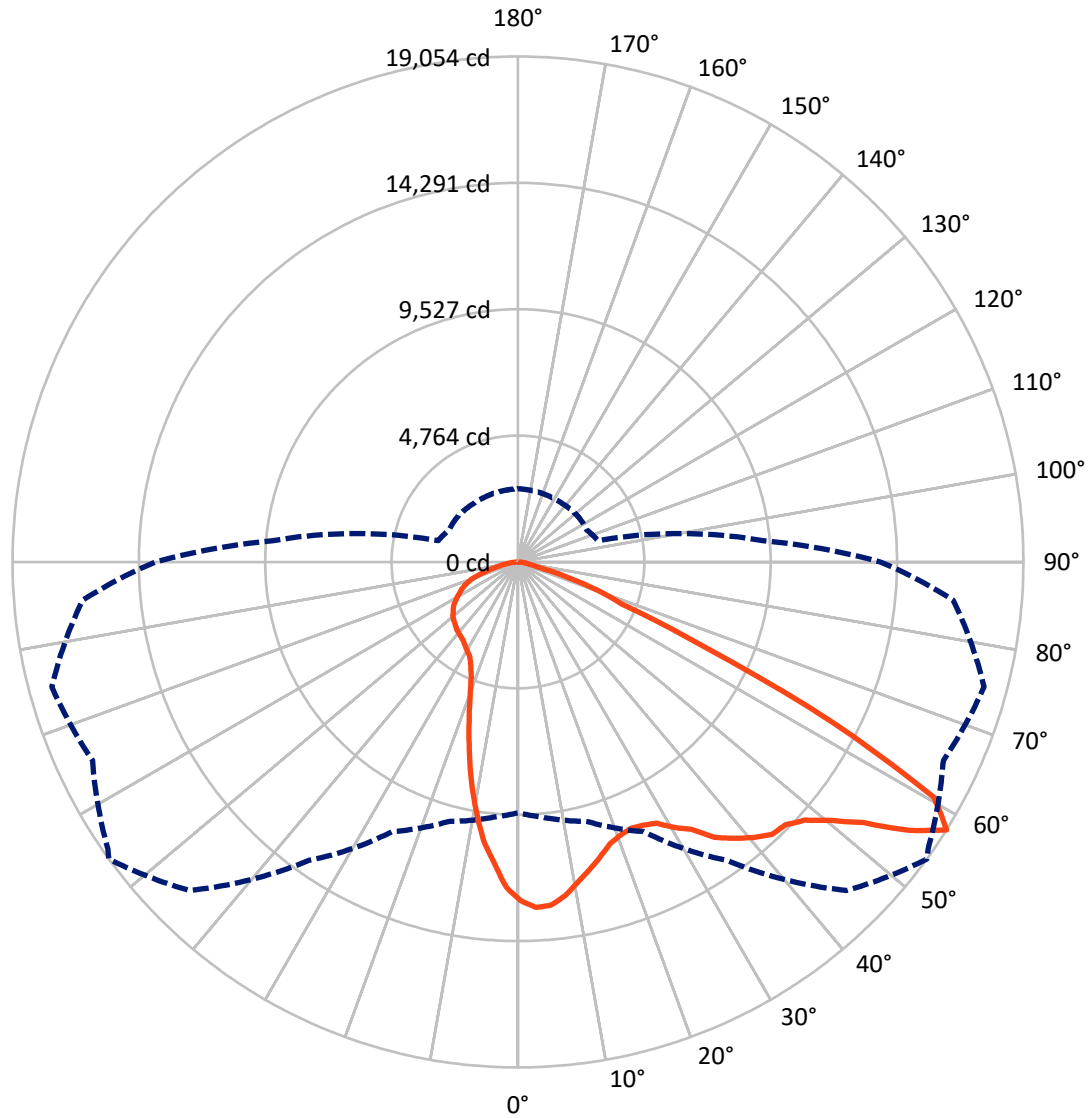
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 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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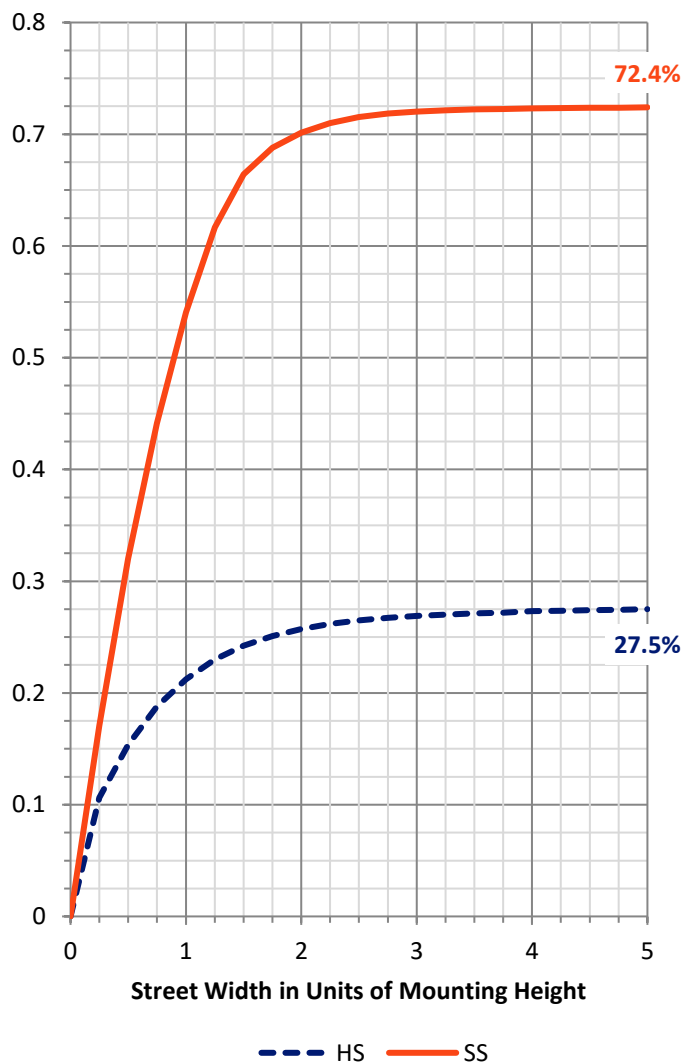
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9089.5	0.0	9089.5
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	23765.5	0.0	23765.5
	% Fixture	72.3	0.0	72.3
Total	Lumens	32855.0	0.0	32855.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1101.3	3.4
10°-20°	2550.0	7.8
20°-30°	3582.7	10.9
30°-40°	5008.7	15.2
40°-50°	6780.8	20.6
50°-60°	8259.3	25.1
60°-70°	4301.8	13.1
70°-80°	1102.3	3.4
80°-90°	168.1	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°	32855.0	100.0
0°-180°	32855.0	100.0



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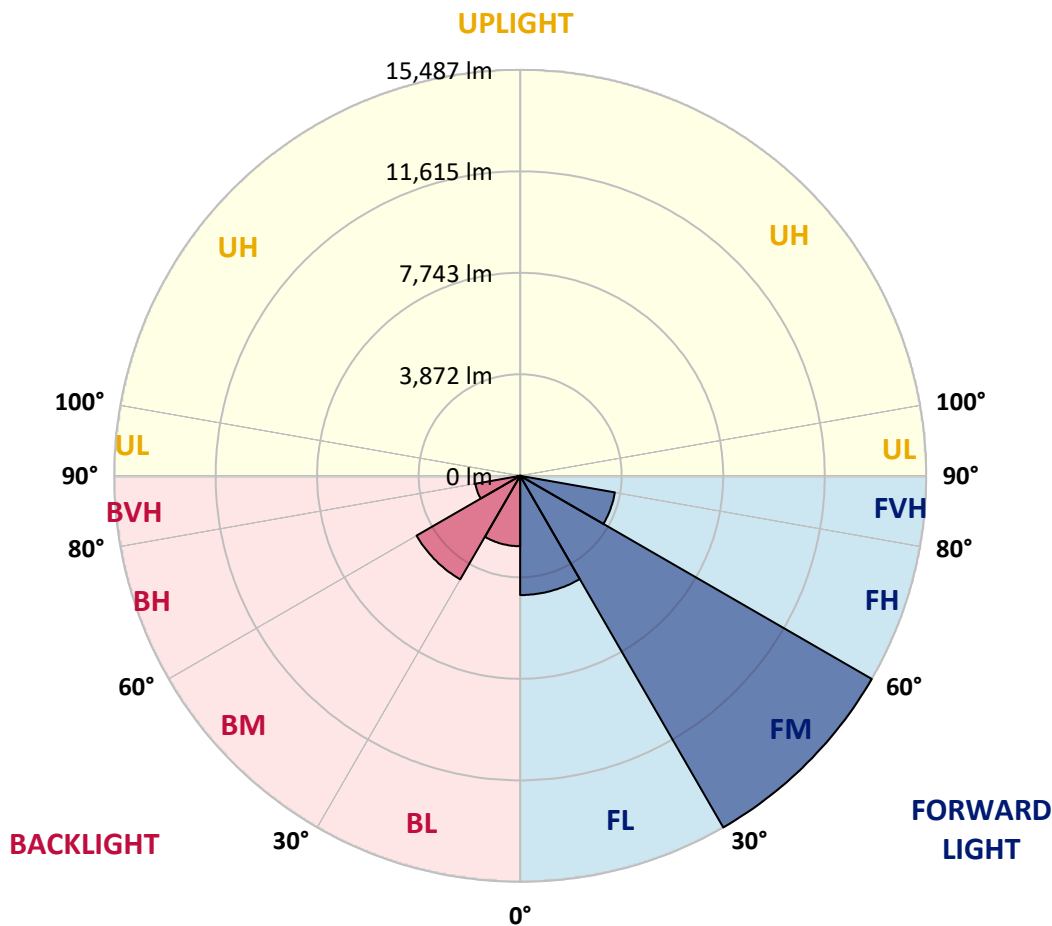
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4547.6	13.8			
FM (30°-60°)	15486.8	47.1			
FH (60°-80°)	3667.5	11.2			G2/5000
FVH (80°-90°)	63.5	0.2			G1/100
BL (0°-30°)	2686.4	8.2	B4/5000		
BM (30°-60°)	4561.9	13.9	B3/5000		
BH (60°-80°)	1736.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	104.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12770.4	12770.4	12770.4	12770.4	12770.4	12770.4	12770.4	12770.4	12770.4	12770.4	12770.4
2.5°	13133.5	13082.9	13091.3	13158.9	13074.4	13040.6	13040.6	12875.9	12888.6	12774.6	12745.0
5°	12829.5	12711.2	12791.5	12892.8	12909.7	12943.5	12998.4	12956.2	12837.9	12715.5	12517.0
7.5°	12035.6	12141.1	12170.7	12242.5	12394.5	12533.9	12707.0	12588.8	12584.6	12462.1	12343.8
10°	11338.8	11275.4	11435.9	11541.5	11794.8	12027.1	12293.2	12280.5	12343.8	12204.5	12001.8
12.5°	10646.2	10595.5	10671.5	10912.2	11267.0	11604.8	11921.5	11803.3	12141.1	12115.8	11680.8
15°	9911.4	9949.4	10059.2	10283.0	10747.5	11153.0	11554.1	11558.4	11858.2	11959.5	11376.8
17.5°	9396.2	9354.0	9493.3	9826.9	10240.8	10726.4	11182.5	11275.4	11735.7	11794.8	11283.9
20°	9011.9	9071.0	9252.6	9421.5	9898.7	10485.7	11000.9	11034.7	11710.4	11870.9	11136.1
22.5°	8919.0	8885.2	8944.3	9218.8	9611.6	10249.2	10903.8	11030.5	11706.2	11845.5	10857.3
25°	8821.9	8931.7	8927.4	9201.9	9489.1	10059.2	10984.0	11123.4	11930.0	11976.4	10895.3
27.5°	9041.5	9028.8	9147.0	9168.1	9522.9	10109.9	11153.0	11258.5	12301.6	12263.6	10924.9
30°	9261.0	9197.7	9269.5	9518.6	9683.3	10401.3	11617.5	11609.0	12783.0	12757.7	11017.8
32.5°	9531.3	9501.8	9548.2	9767.8	10046.5	10789.8	12010.2	12259.4	13272.9	13433.4	11338.8
35°	9582.0	9704.5	9814.3	10109.9	10506.8	11419.0	12749.2	12956.2	13838.8	14341.3	11951.1
37.5°	9902.9	9949.4	10207.0	10730.7	11093.8	12259.4	13218.0	13348.9	14354.0	14924.1	12597.2
40°	10245.0	10299.9	10688.4	11237.4	11735.7	12808.4	13657.2	13699.4	14518.7	15371.7	13019.5
42.5°	10709.5	10760.2	11144.5	11832.9	12500.1	13277.1	14045.7	14092.2	14506.0	15886.9	13691.0
45°	11191.0	11313.4	11765.3	12546.5	13146.2	13826.1	14134.4	14324.4	14624.3	16347.2	14235.7
47.5°	11866.6	11980.7	12352.3	13116.6	13817.7	14307.5	14544.0	14729.8	14907.2	16748.4	14586.3
50°	12584.6	12605.7	13057.5	13750.1	14265.3	14852.3	15308.4	15371.7	15278.8	17213.0	15181.7
52.5°	13112.4	13180.0	13530.5	14206.2	14974.8	15696.9	16321.9	16389.5	16207.9	17386.1	15384.4
55°	12238.3	12200.3	12770.4	13669.9	15452.0	16955.4	17863.3	17914.0	16883.6	17922.4	16047.4
57.5°	9459.5	9641.1	10126.8	11212.1	13729.0	17512.8	19054.2	18872.6	17694.4	18192.7	16469.7
60°	6875.0	6832.8	7158.0	7884.3	10346.4	15093.0	18015.3	18201.1	17031.4	16397.9	13581.2
62.5°	5599.7	5540.6	5565.9	5591.3	6676.6	10017.0	13336.2	13332.0	13116.6	11786.4	9159.7
65°	4476.4	4615.7	4628.4	4818.4	4957.8	5984.0	7728.1	8142.0	7090.4	5815.1	4218.8
67.5°	3374.2	3323.5	3492.4	4168.1	4429.9	4320.1	4218.8	4265.2	3032.1	2187.5	2060.8
70°	1989.0	1967.9	2170.6	2905.4	3648.7	3433.3	3179.9	3184.1	2081.9	1528.7	1701.9
72.5°	1089.5	1085.3	1127.5	1473.8	2073.5	2153.7	1908.8	1967.9	1241.6	1237.3	1330.2
75°	608.1	595.4	582.8	650.3	747.5	789.7	806.6	815.0	853.0	954.4	992.4
77.5°	223.8	215.4	215.4	249.2	316.7	397.0	502.5	511.0	603.9	692.6	730.6
80°	76.0	84.5	114.0	156.3	211.2	282.9	342.1	350.5	426.5	485.6	498.3
82.5°	46.5	50.7	76.0	109.8	152.0	198.5	253.4	257.6	316.7	354.7	371.6
85°	21.1	25.3	42.2	67.6	97.1	130.9	135.1	135.1	130.9	135.1	126.7
87.5°	0.0	0.0	8.4	8.4	8.4	12.7	16.9	12.7	21.1	25.3	25.3
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°	12770.4	12770.4	12770.4	12770.4	12770.4	12770.4	12770.4	12770.4	12770.4	12770.4	12770.4
2.5°	12656.3	12609.9	12466.3	12339.6	12301.6	12132.7	11883.5	11913.1	11731.5	11816.0	11727.3
5°	12483.2	12326.9	11959.5	11803.3	11393.7	11207.9	11081.2	10764.4	10616.6	10587.1	10460.4
7.5°	12039.8	11942.7	11482.3	11060.0	10625.1	10253.5	9776.3	9451.1	9218.8	9155.5	8969.7
10°	11689.3	11473.9	10836.2	10194.3	9573.5	8927.4	8306.6	7821.0	7584.5	7310.0	7217.1
12.5°	11343.0	11017.8	10156.3	9332.8	8530.5	7715.4	6963.7	6372.5	5857.3	5734.8	5692.6
15°	11127.6	10561.7	9548.2	8555.8	7415.6	6351.4	5599.7	5211.2	4894.5	4763.5	4856.5
17.5°	10844.7	10185.9	8965.4	7643.6	6389.4	5409.7	4780.4	4539.7	4425.7	4438.4	4400.4
20°	10489.9	9831.2	8201.1	6815.9	5473.0	4691.8	4332.8	4244.1	4261.0	4290.6	4277.9
22.5°	10236.6	9400.4	7647.9	5971.3	4729.8	4294.8	4147.0	4083.6	4138.5	4163.9	4142.8
25°	10042.3	9033.0	6976.4	5223.9	4299.0	4071.0	4003.4	3999.2	4083.6	4117.4	4096.3
27.5°	9864.9	8690.9	6309.2	4653.7	4011.9	3897.8	3876.7	3927.4	3982.3	4016.1	4045.6
30°	9759.4	8429.1	5684.2	4176.6	3868.3	3813.4	3775.4	3821.8	3851.4	3885.2	3868.3
32.5°	9860.7	8243.3	5080.3	3906.3	3750.0	3695.1	3745.8	3716.2	3766.9	3796.5	3750.0
35°	10177.4	8078.6	4649.5	3762.7	3614.9	3636.0	3644.5	3631.8	3652.9	3627.6	3682.5
37.5°	10489.9	8019.5	4252.6	3640.2	3551.5	3551.5	3543.1	3517.8	3560.0	3551.5	3576.9
40°	10886.9	8057.5	3914.7	3509.3	3492.4	3484.0	3450.2	3446.0	3429.1	3433.3	3441.7
42.5°	11233.2	8142.0	3720.5	3424.9	3437.5	3454.4	3391.1	3340.4	3361.5	3319.3	3319.3
45°	11600.6	8218.0	3547.3	3365.7	3353.1	3348.8	3298.2	3268.6	3251.7	3255.9	3293.9
47.5°	12179.1	8327.8	3416.4	3285.5	3293.9	3230.6	3217.9	3179.9	3196.8	3222.2	3226.4
50°	12588.8	8560.0	3315.1	3192.6	3222.2	3179.9	3103.9	3087.0	3087.0	3129.2	3120.8
52.5°	12875.9	8885.2	3217.9	3091.2	3103.9	3070.1	3044.8	3006.8	2981.4	3040.6	3070.1
55°	13754.3	9425.7	3192.6	3006.8	3002.6	2968.8	2922.3	2884.3	2871.6	2880.1	2939.2
57.5°	13669.9	9256.8	3112.4	2859.0	2850.5	2804.1	2757.6	2745.0	2740.7	2749.2	2766.1
60°	11098.1	6837.0	2778.7	2690.1	2677.4	2668.9	2622.5	2571.8	2546.5	2571.8	2550.7
62.5°	7343.8	4577.7	2449.3	2487.3	2495.8	2474.7	2398.7	2348.0	2356.4	2386.0	2339.5
65°	3606.4	2690.1	2221.3	2322.7	2331.1	2272.0	2200.2	2141.1	2111.5	2136.8	2115.7
67.5°	2060.8	2056.6	2035.5	2141.1	2136.8	2077.7	1963.7	1913.0	1862.3	1870.8	1858.1
70°	1748.3	1782.1	1824.3	1887.7	1883.5	1815.9	1680.8	1642.7	1571.0	1562.5	1541.4
72.5°	1376.7	1435.8	1528.7	1575.2	1537.2	1452.7	1364.0	1300.7	1237.3	1199.3	1212.0
75°	1022.0	1106.4	1157.1	1186.7	1127.5	1081.1	1009.3	933.3	857.3	823.5	810.8
77.5°	743.2	768.6	815.0	836.2	798.1	751.7	709.5	633.5	561.7	515.2	502.5
80°	519.4	536.3	570.1	570.1	570.1	549.0	494.1	418.1	371.6	329.4	320.9
82.5°	363.2	380.1	413.9	397.0	392.7	367.4	333.6	274.5	223.8	194.3	185.8
85°	126.7	139.4	168.9	202.7	215.4	211.2	190.0	152.0	118.2	97.1	88.7
87.5°	29.6	29.6	33.8	29.6	29.6	33.8	29.6	29.6	29.6	21.1	16.9
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)