

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: P531222

Luminaire Tested: **GALN-SA6C-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32181 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

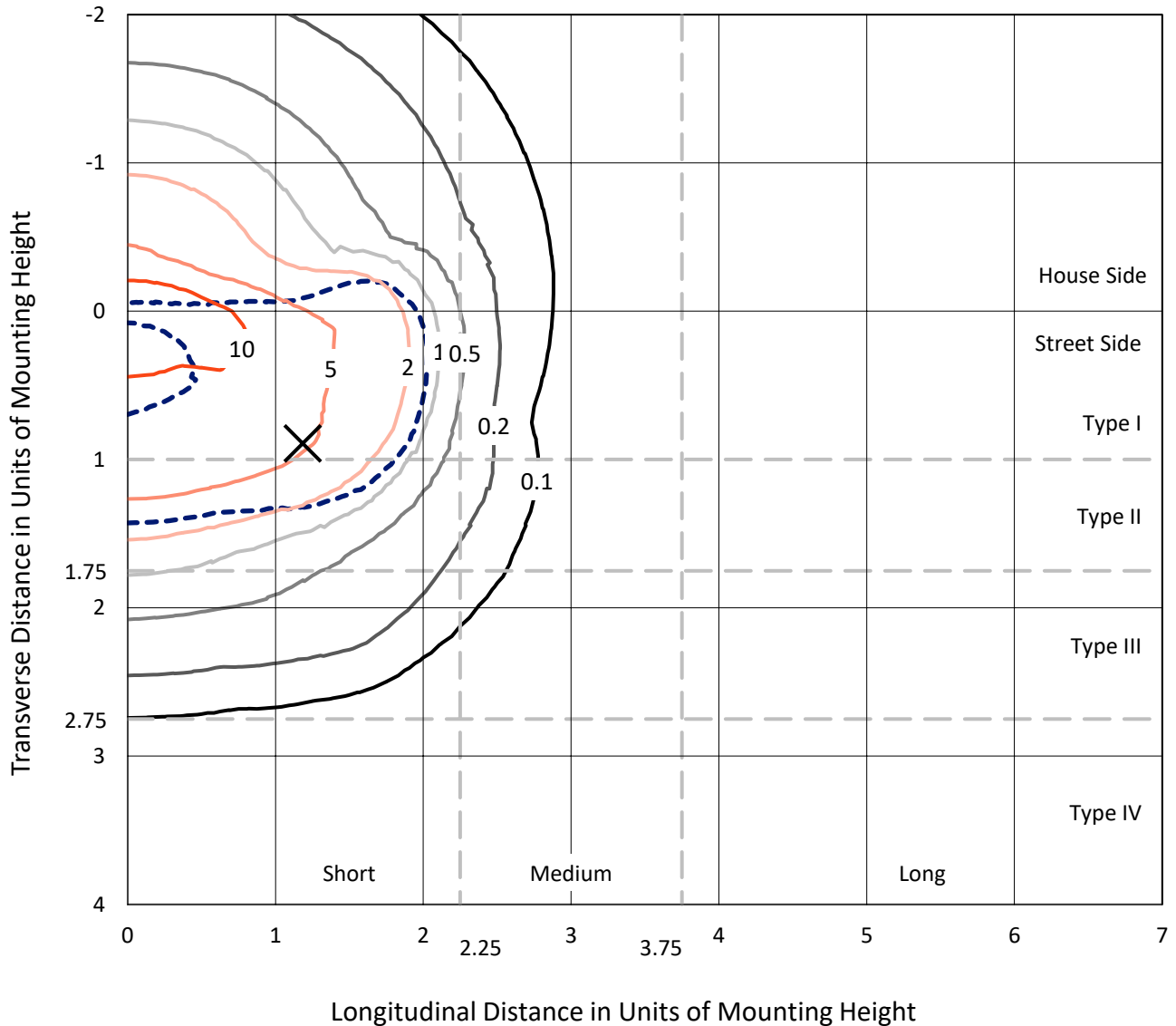
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

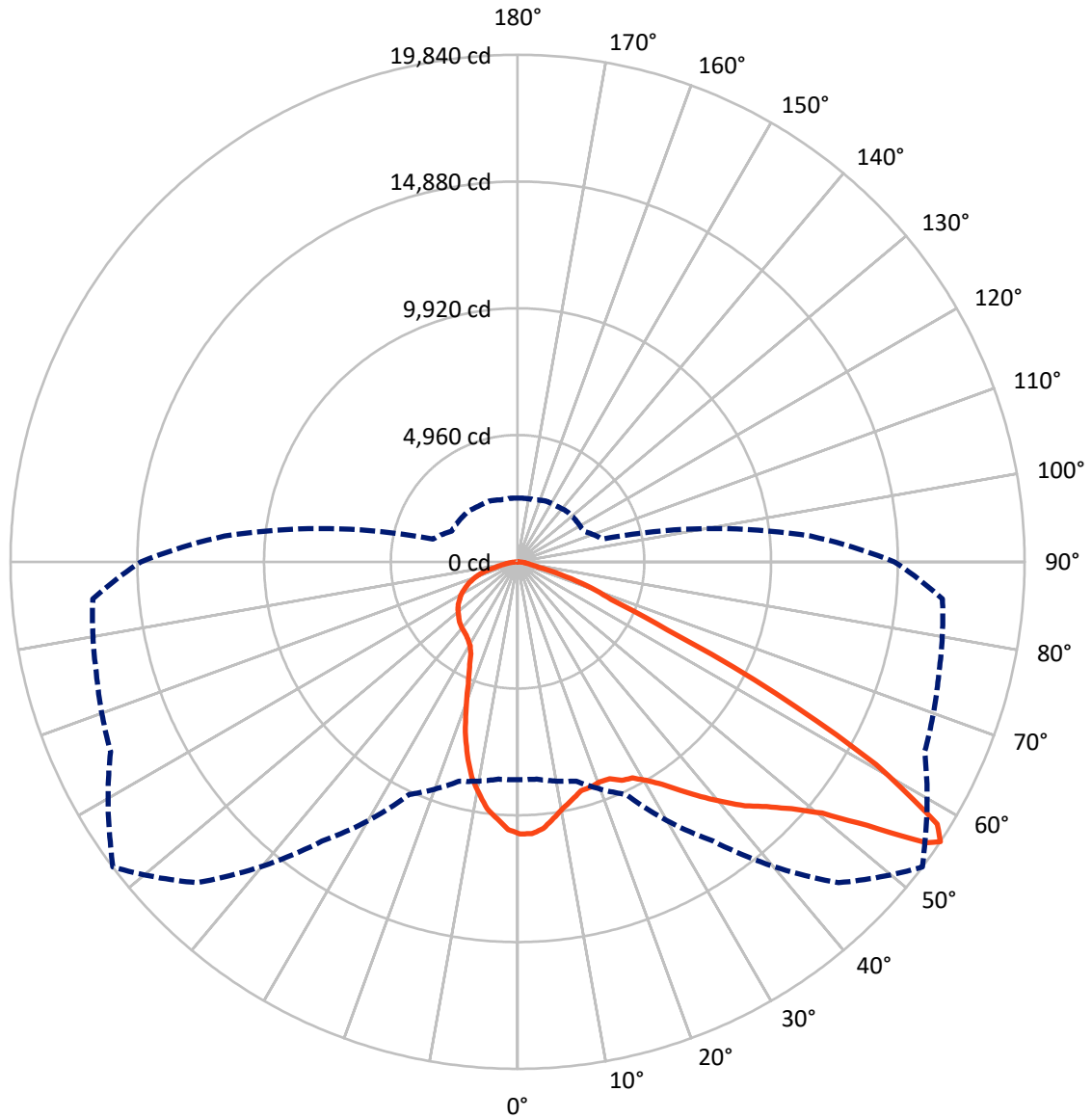
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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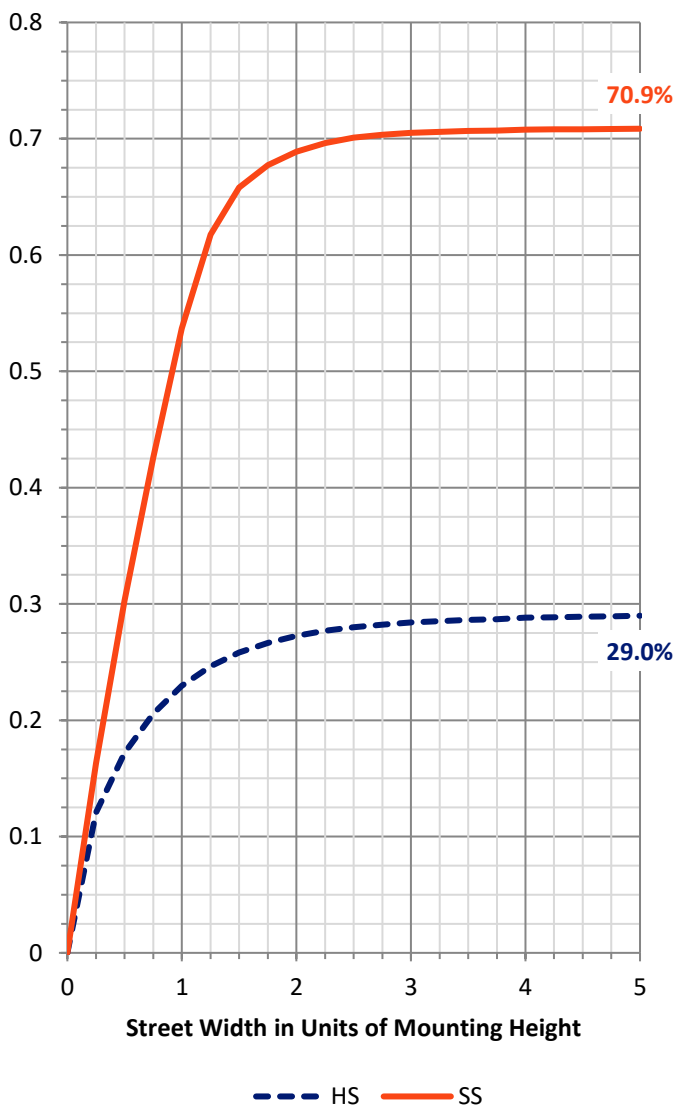
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9391.1	0.0	9391.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	22789.9	0.0	22789.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	32181.0	0.0	32181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	942.5	2.9
10°-20°	2354.1	7.3
20°-30°	3471.3	10.8
30°-40°	4959.8	15.4
40°-50°	6826.4	21.2
50°-60°	8067.0	25.1
60°-70°	4299.2	13.4
70°-80°	1090.7	3.4
80°-90°	170.1	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°	32181.0	100.0
0°-180°	32181.0	100.0

Coefficient of Utilization

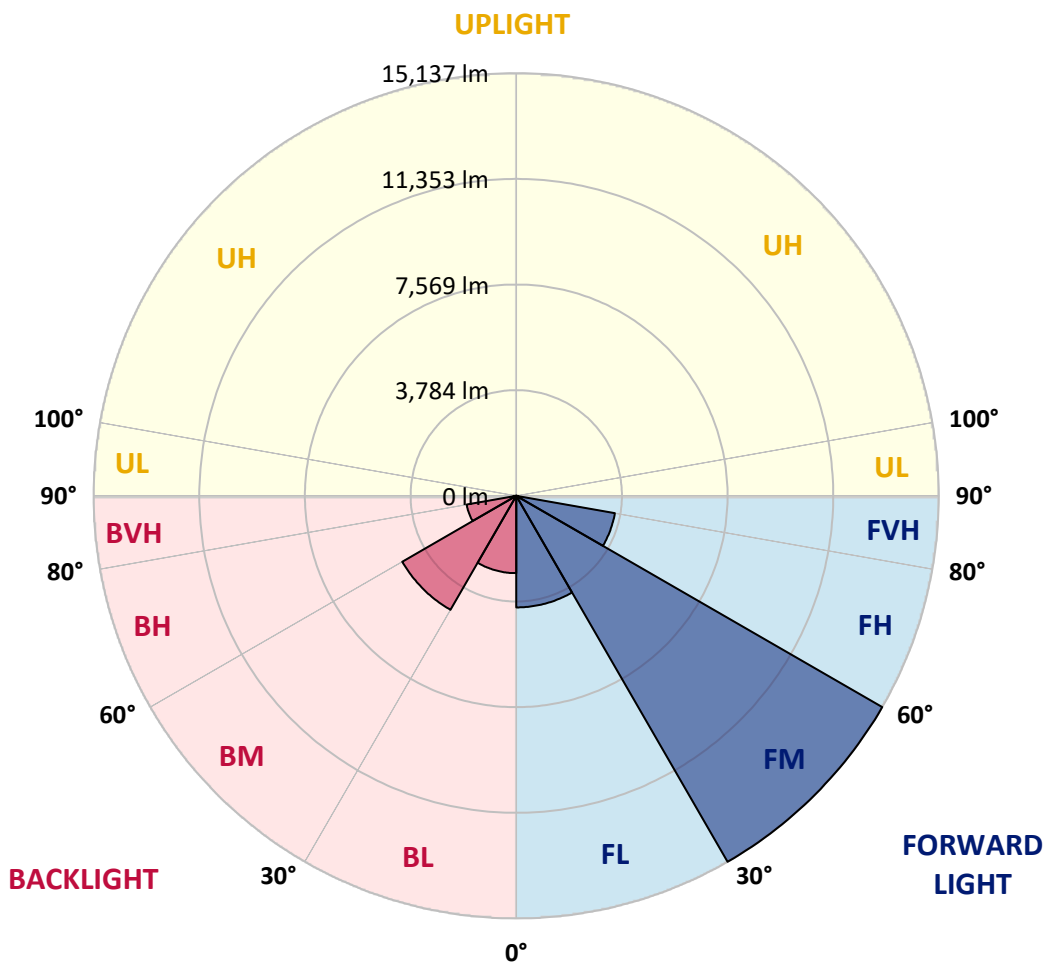


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3998.0	12.4			
FM (30°-60°)	15137.3	47.0			
FH (60°-80°)	3586.2	11.1			G2/5000
FVH (80°-90°)	68.4	0.2			G1/100
BL (0°-30°)	2769.8	8.6	B4/5000		
BM (30°-60°)	4715.9	14.7	B3/5000		
BH (60°-80°)	1803.7	5.6	B3/2500		G3/2500
BVH (80°-90°)	101.7	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°	53°	55°	65°	75°	85°
0°	10646.7	10646.7	10646.7	10646.7	10646.7	10646.7	10646.7	10646.7	10646.7	10646.7	10646.7
2.5°	10514.6	10423.8	10477.5	10456.8	10626.1	10675.6	10650.9	10671.5	10766.5	10721.1	10626.1
5°	9825.2	9953.2	9978.0	10039.9	10139.0	10333.0	10485.7	10527.0	10572.4	10783.0	10762.3
7.5°	9197.7	9284.4	9239.0	9420.7	9635.3	9949.1	10134.8	10167.9	10584.8	10700.4	10787.1
10°	8801.4	8714.7	8921.1	8970.7	9214.2	9573.4	9796.3	9932.6	10312.4	10770.6	10824.3
12.5°	8434.0	8405.1	8529.0	8669.3	8941.8	9313.3	9540.4	9594.0	10180.3	10663.3	10915.1
15°	8161.5	8128.5	8252.4	8355.6	8673.4	9003.7	9292.7	9445.4	10035.8	10601.3	10836.6
17.5°	7946.9	7942.7	8012.9	8198.7	8524.8	8801.4	9267.9	9276.2	9961.5	10696.3	10902.7
20°	7934.5	7930.4	7942.7	8149.2	8446.4	8784.9	9189.5	9263.8	9961.5	10630.2	10906.8
22.5°	8037.7	7971.6	8045.9	8178.1	8392.7	8813.8	9218.4	9383.5	10200.9	10956.4	11092.6
25°	8202.8	8219.3	8260.6	8306.0	8429.9	8879.9	9474.3	9610.6	10481.6	11237.1	11348.5
27.5°	8504.2	8495.9	8512.4	8537.2	8644.5	8941.8	9577.5	9928.4	11067.8	11736.6	11625.1
30°	8945.9	8917.0	8983.1	9069.8	8970.7	9139.9	9920.2	10184.4	11612.8	12240.2	11934.8
32.5°	9346.3	9453.7	9577.5	9614.7	9495.0	9528.0	10374.3	10642.6	12066.9	12859.5	12314.6
35°	9845.9	9932.6	10097.7	10213.3	10192.6	10093.6	10993.5	11348.5	12723.3	13313.6	12715.0
37.5°	10333.0	10436.2	10708.7	11051.3	10861.4	10816.0	11654.0	11947.1	12925.5	13557.2	13008.1
40°	11117.4	11113.2	11583.9	11761.4	11930.6	11852.2	12339.3	12438.4	13032.9	13503.5	13016.4
42.5°	12038.0	11980.2	12459.0	12735.6	12954.4	12962.7	13053.5	13020.5	13082.4	13231.0	12929.7
45°	12913.1	13037.0	13520.0	14015.4	14234.2	14259.0	13656.2	13594.3	13169.1	13152.6	12764.5
47.5°	13982.4	14011.3	14407.6	15059.8	15567.6	15394.2	14436.5	14300.2	13548.9	13676.9	13041.1
50°	14044.3	14259.0	14614.0	15381.8	16942.3	16896.9	15447.9	15191.9	14159.9	14420.0	13813.1
52.5°	12748.0	12698.5	13119.6	14374.5	16839.1	18391.3	17124.0	16513.0	15472.7	15274.5	15064.0
55°	9713.8	9829.4	10200.9	11468.3	14622.2	18412.0	19406.9	18907.4	16876.3	16537.7	16294.2
56°	8520.7	8537.2	8888.1	10044.0	13342.5	17755.6	19840.3	19435.8	17573.9	17057.9	16686.4
57.5°	7063.4	6968.5	7150.1	7781.7	11261.9	16368.5	19365.6	19761.9	18391.3	17619.3	17103.3
60°	5560.7	5540.1	5465.8	5581.4	7117.1	12331.1	16120.8	17012.5	18308.8	17090.9	16380.9
62.5°	4541.1	4437.9	4586.5	4751.6	4945.6	7649.6	11327.9	11852.2	14535.5	13643.8	12306.3
65°	3521.4	3471.9	3657.6	4194.3	4309.9	4858.9	6452.4	6857.0	8582.6	8429.9	7422.6
67.5°	2423.3	2431.5	2592.5	3409.9	3996.1	3946.6	3950.7	4161.3	4479.1	3327.4	2898.0
70°	1535.7	1531.6	1618.3	2196.2	3215.9	3248.9	3083.8	3021.9	2865.0	1733.9	1837.1
72.5°	986.7	957.8	1003.2	1213.7	1663.7	1923.8	1981.6	2018.7	1659.6	1362.3	1477.9
75°	557.3	528.4	511.9	565.6	656.4	759.6	833.9	858.7	961.9	1032.1	1094.0
77.5°	169.3	152.7	185.8	247.7	326.1	437.6	532.5	549.1	648.1	730.7	792.6
80°	74.3	82.6	115.6	165.1	231.2	309.6	375.7	400.4	466.5	528.4	544.9
82.5°	45.4	49.5	78.4	111.5	161.0	218.8	268.3	276.6	342.6	392.2	404.6
85°	16.5	20.6	41.3	66.1	103.2	140.4	140.4	152.7	140.4	140.4	152.7
87.5°	0.0	0.0	4.1	8.3	8.3	12.4	16.5	16.5	20.6	24.8	28.9
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°	10646.7	10646.7	10646.7	10646.7	10646.7	10646.7	10646.7	10646.7	10646.7	10646.7	10646.7
2.5°	10675.6	10655.0	10622.0	10502.3	10489.9	10452.7	10246.3	10213.3	10246.3	10147.2	10155.5
5°	10655.0	10716.9	10469.2	10349.5	10126.6	9965.6	9779.8	9684.9	9515.6	9408.3	9528.0
7.5°	10745.8	10721.1	10411.4	10151.4	9817.0	9408.3	9082.1	8896.4	8599.1	8516.6	8578.5
10°	10712.8	10580.7	10217.4	9874.8	9243.1	8884.0	8355.6	7843.7	7562.9	7418.5	7397.8
12.5°	10667.4	10630.2	10023.4	9433.0	8768.4	8012.9	7269.8	6786.8	6328.6	6130.4	6159.3
15°	10721.1	10407.3	9660.1	8912.9	8029.4	7038.7	6237.8	5614.4	5296.5	5168.6	5168.6
17.5°	10696.3	10300.0	9486.7	8330.8	7212.0	6039.6	5160.3	4784.6	4652.5	4652.5	4689.7
20°	10708.7	10370.2	9135.8	7748.7	6246.0	5086.0	4446.1	4309.9	4367.7	4388.3	4409.0
22.5°	10778.8	10139.0	8793.2	7108.8	5350.2	4351.2	4037.4	4041.6	4144.8	4256.2	4235.6
25°	10865.5	10048.1	8376.2	6473.1	4664.9	3992.0	3892.9	3880.6	3959.0	4016.8	4025.0
27.5°	10791.2	9891.3	7951.0	5680.5	4103.5	3752.6	3731.9	3740.2	3765.0	3880.6	3843.4
30°	11034.8	9936.7	7418.5	5015.8	3793.9	3674.1	3649.4	3637.0	3674.1	3707.2	3678.3
32.5°	11336.2	9775.7	7022.1	4375.9	3641.1	3616.3	3566.8	3550.3	3570.9	3537.9	3554.4
35°	11468.3	9746.8	6506.1	3917.7	3521.4	3500.8	3471.9	3467.7	3471.9	3443.0	3418.2
37.5°	11542.6	9883.0	5915.8	3707.2	3447.1	3467.7	3401.7	3393.4	3319.1	3335.6	3348.0
40°	11670.5	9672.5	5436.9	3504.9	3401.7	3360.4	3302.6	3290.2	3240.7	3211.8	3240.7
42.5°	11484.8	9610.6	4966.3	3418.2	3335.6	3290.2	3248.9	3178.7	3162.2	3137.5	3121.0
45°	11336.2	9255.5	4545.2	3310.9	3257.2	3232.4	3154.0	3079.7	3017.7	3042.5	3005.4
47.5°	11447.6	9131.7	4128.2	3220.0	3149.9	3121.0	3042.5	2984.7	2922.8	2893.9	2885.6
50°	11893.5	9362.9	3777.3	3154.0	3059.0	3042.5	2939.3	2873.3	2815.5	2794.8	2803.1
52.5°	12958.6	9994.5	3537.9	3017.7	2972.3	2898.0	2840.2	2757.7	2720.5	2654.5	2695.7
55°	14308.5	11022.4	3476.0	2889.8	2865.0	2798.9	2720.5	2658.6	2588.4	2534.7	2522.4
56°	14742.0	11513.7	3426.4	2840.2	2798.9	2761.8	2658.6	2621.4	2510.0	2497.6	2489.3
57.5°	15092.9	11947.1	3434.7	2745.3	2704.0	2671.0	2609.1	2518.2	2443.9	2398.5	2419.2
60°	14300.2	11183.4	3277.8	2600.8	2592.5	2530.6	2443.9	2402.6	2311.8	2258.1	2245.8
62.5°	10630.2	7591.8	2658.6	2415.0	2410.9	2344.8	2245.8	2200.4	2183.8	2109.5	2109.5
65°	6122.2	4759.9	2299.4	2262.3	2229.3	2163.2	2064.1	2027.0	1985.7	1960.9	1940.3
67.5°	2613.2	2468.7	2088.9	2084.8	2047.6	1965.0	1866.0	1808.2	1754.5	1705.0	1729.7
70°	1894.9	1923.8	1886.6	1866.0	1820.6	1717.3	1630.7	1560.5	1477.9	1444.9	1469.7
72.5°	1502.7	1564.6	1618.3	1622.4	1568.7	1449.0	1354.1	1259.1	1168.3	1122.9	1143.5
75°	1139.4	1180.7	1234.3	1246.7	1168.3	1085.7	994.9	895.8	825.6	772.0	780.2
77.5°	821.5	813.3	862.8	854.5	817.4	759.6	677.0	586.2	507.8	458.2	462.4
80°	561.4	573.8	602.7	598.6	553.2	516.0	454.1	379.8	322.0	280.7	272.5
82.5°	392.2	412.8	437.6	417.0	379.8	342.6	297.2	243.6	198.2	165.1	156.9
85°	140.4	161.0	185.8	198.2	210.5	202.3	169.3	136.2	99.1	82.6	78.4
87.5°	28.9	33.0	37.2	37.2	37.2	33.0	28.9	28.9	24.8	12.4	12.4
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)