

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: P648590

Luminaire Tested: **GALN-SA8B-835-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648590
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-SA8B-835-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA 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: 30493.9 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

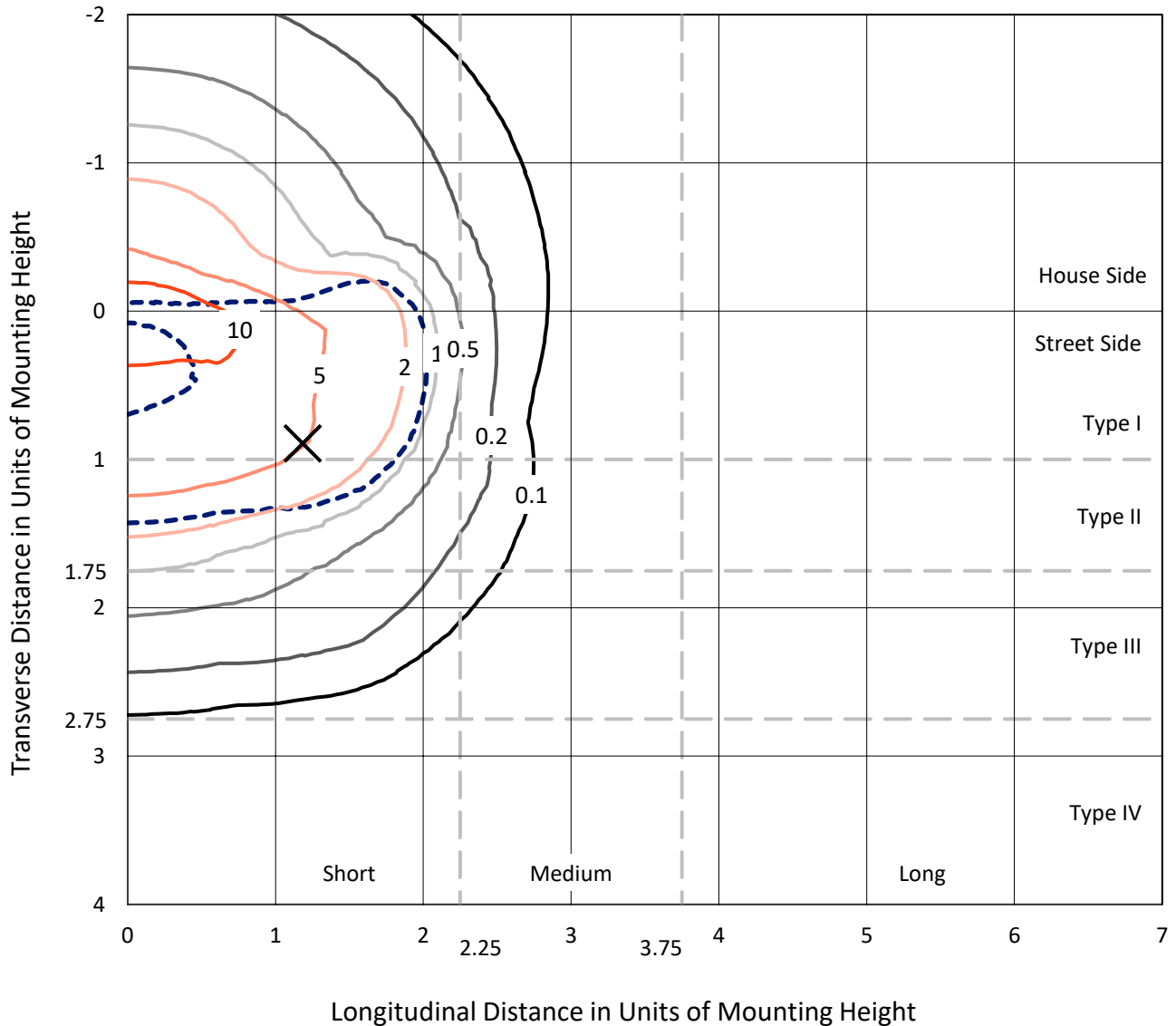
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

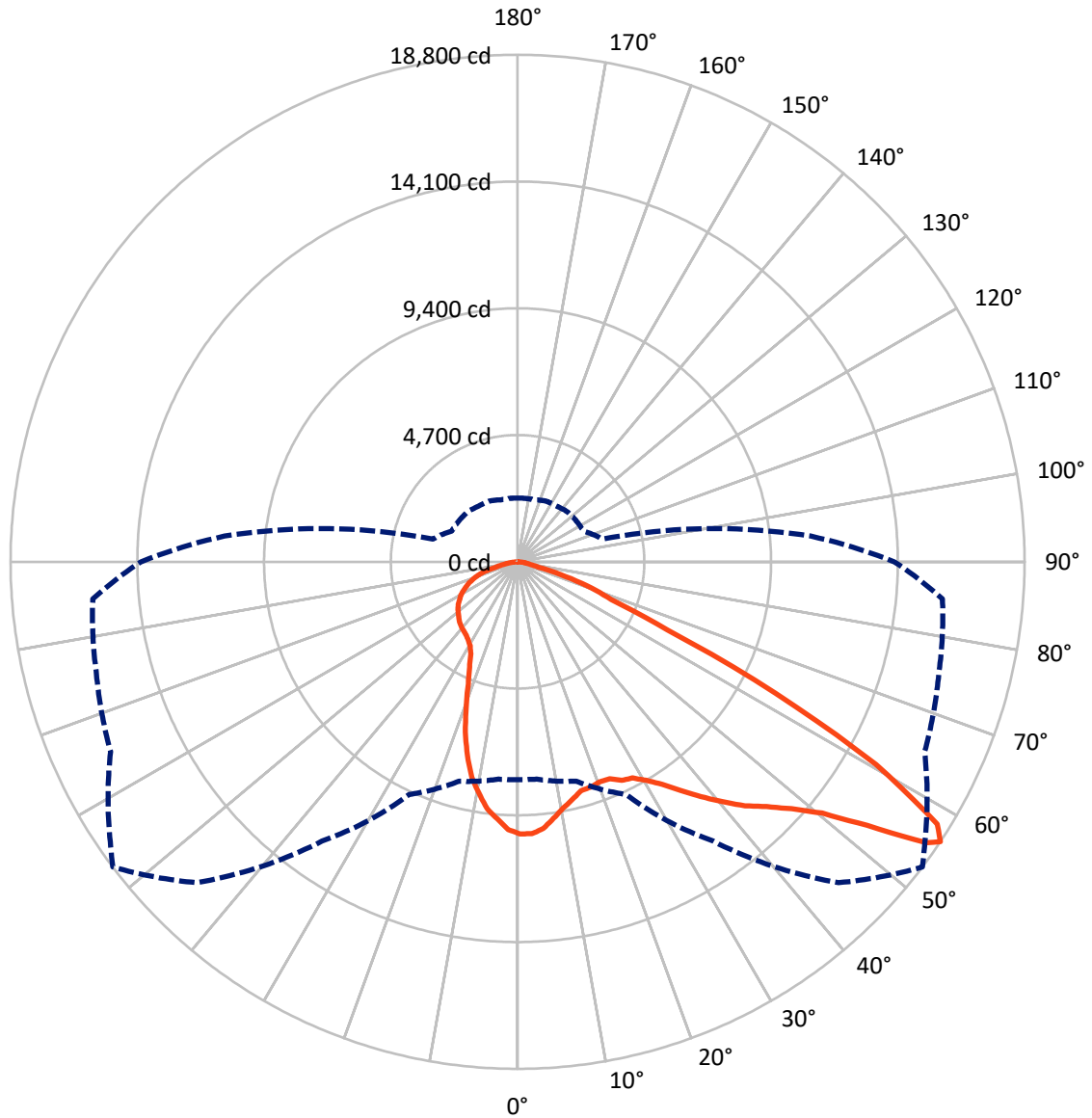
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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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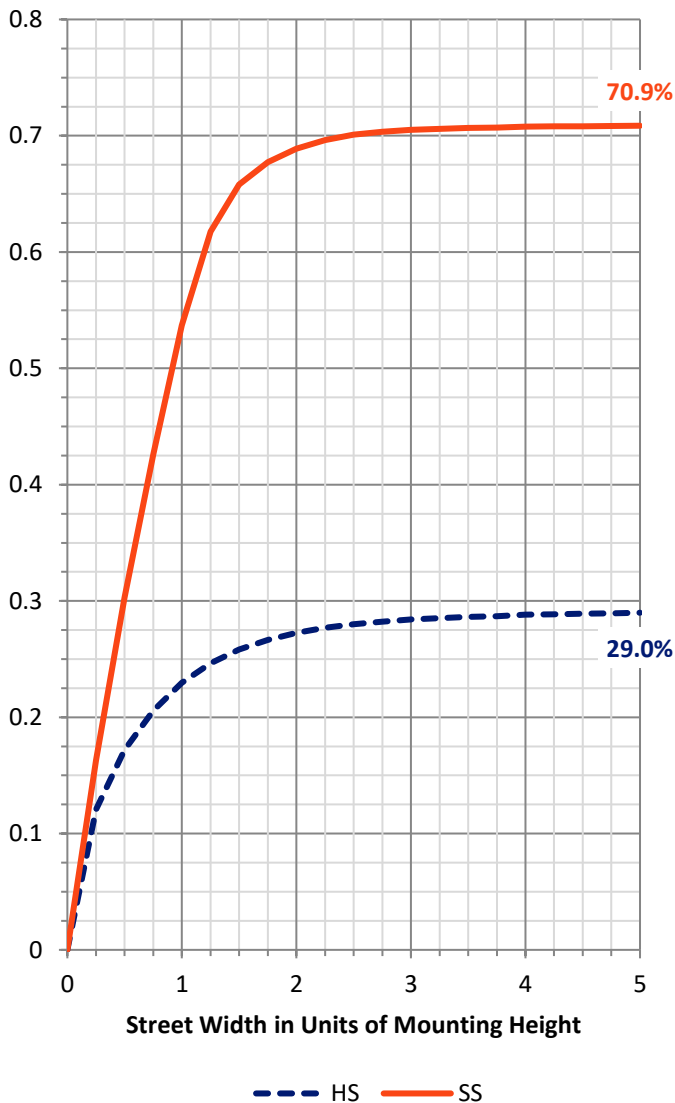
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8898.8	0.0	8898.8
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	21595.1	0.0	21595.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	30493.9	0.0	30493.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	893.1	2.9
10°-20°	2230.6	7.3
20°-30°	3289.3	10.8
30°-40°	4699.8	15.4
40°-50°	6468.6	21.2
50°-60°	7644.1	25.1
60°-70°	4073.8	13.4
70°-80°	1033.5	3.4
80°-90°	161.2	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°	30493.9	100.0
0°-180°	30493.9	100.0

Coefficient of Utilization

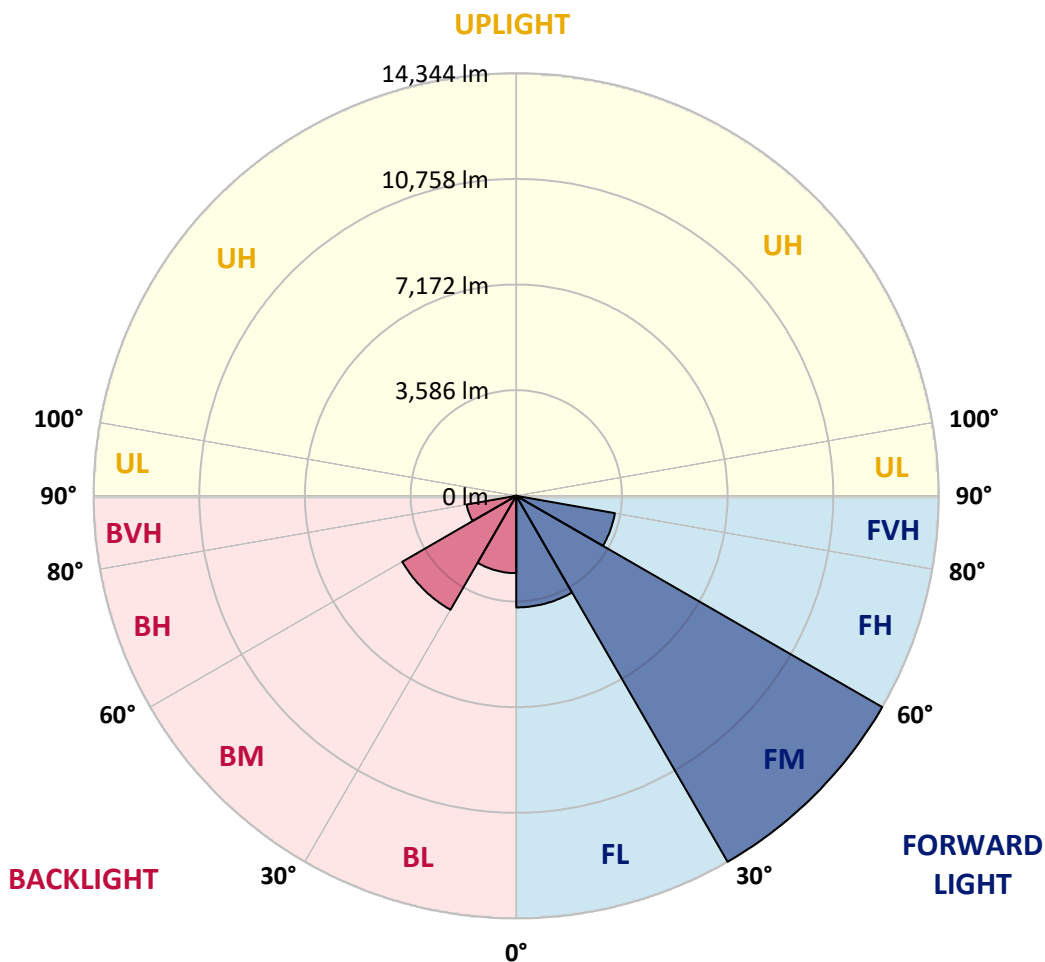


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3788.4	12.4			
FM (30°-60°)	14343.8	47.0			
FH (60°-80°)	3398.2	11.1			G2/5000
FVH (80°-90°)	64.8	0.2			G1/100
BL (0°-30°)	2624.6	8.6	B4/5000		
BM (30°-60°)	4468.7	14.7	B3/5000		
BH (60°-80°)	1709.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	96.4	0.3			G1/100
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°	10088.6	10088.6	10088.6	10088.6	10088.6	10088.6	10088.6	10088.6	10088.6	10088.6	10088.6
2.5°	9963.4	9877.4	9928.2	9908.6	10069.1	10116.0	10092.5	10112.1	10202.0	10159.0	10069.1
5°	9310.1	9431.4	9454.9	9513.5	9607.4	9791.3	9936.0	9975.2	10018.2	10217.7	10198.1
7.5°	8715.6	8797.7	8754.6	8926.7	9130.2	9427.5	9603.5	9634.8	10029.9	10139.5	10221.6
10°	8340.0	8257.8	8453.4	8500.4	8731.2	9071.5	9282.8	9411.8	9771.8	10205.9	10256.8
12.5°	7991.8	7964.4	8081.8	8214.8	8473.0	8825.1	9040.2	9091.1	9646.6	10104.2	10342.9
15°	7733.7	7702.4	7819.7	7917.5	8218.8	8531.7	8805.5	8950.2	9509.6	10045.6	10268.6
17.5°	7530.3	7526.4	7592.8	7768.8	8077.9	8340.0	8782.0	8789.9	9439.2	10135.5	10331.1
20°	7518.5	7514.6	7526.4	7721.9	8003.6	8324.4	8707.7	8778.1	9439.2	10073.0	10335.1
22.5°	7616.3	7553.8	7624.1	7749.4	7952.8	8351.7	8735.1	8891.6	9666.1	10382.0	10511.1
25°	7772.8	7788.4	7827.6	7870.6	7987.9	8414.4	8977.6	9106.8	9932.1	10648.0	10753.6
27.5°	8058.3	8050.6	8066.2	8089.6	8191.4	8473.0	9075.4	9407.9	10487.6	11121.3	11015.7
30°	8476.9	8449.5	8512.1	8594.3	8500.4	8660.8	9400.1	9650.5	11004.0	11598.6	11309.1
32.5°	8856.4	8958.1	9075.4	9110.7	8997.2	9028.5	9830.4	10084.6	11434.2	12185.4	11669.0
35°	9329.7	9411.8	9568.3	9677.9	9658.3	9564.4	10417.2	10753.6	12056.2	12615.6	12048.4
37.5°	9791.3	9889.1	10147.3	10471.9	10292.0	10249.0	11043.1	11320.8	12247.9	12846.4	12326.1
40°	10534.6	10530.6	10976.6	11144.8	11305.2	11230.9	11692.5	11786.3	12349.6	12795.6	12334.0
42.5°	11406.9	11352.1	11805.9	12068.0	12275.3	12283.2	12369.2	12337.9	12396.5	12537.4	12251.8
45°	12236.2	12353.5	12811.2	13280.6	13488.0	13511.4	12940.3	12881.6	12478.7	12463.1	12095.4
47.5°	13249.4	13276.7	13652.2	14270.3	14751.5	14587.2	13679.6	13550.6	12838.6	12959.9	12357.5
50°	13308.0	13511.4	13847.8	14575.5	16054.2	16011.1	14638.0	14395.5	13417.6	13664.0	13088.9
52.5°	12079.7	12032.8	12431.8	13621.0	15956.4	17427.2	16226.3	15647.3	14661.5	14473.8	14274.2
55°	9204.6	9314.0	9666.1	10867.0	13855.7	17446.7	18389.5	17916.1	15991.5	15670.8	15440.0
56°	8074.0	8089.6	8422.2	9517.4	12643.0	16824.8	18800.2	18416.9	16652.6	16163.6	15811.6
57.5°	6693.2	6603.2	6775.3	7373.8	10671.4	15510.4	18350.4	18725.9	17427.2	16695.7	16206.7
60°	5269.2	5249.7	5179.2	5288.8	6744.0	11684.6	15275.7	16120.6	17348.9	16194.9	15522.1
62.5°	4303.0	4205.2	4346.0	4502.5	4686.3	7248.6	10734.1	11230.9	13773.5	12928.6	11661.1
65°	3336.8	3289.9	3465.9	3974.4	4084.0	4604.2	6114.2	6497.6	8132.7	7987.9	7033.5
67.5°	2296.2	2304.1	2456.7	3231.2	3786.7	3739.7	3743.6	3943.1	4244.3	3152.9	2746.1
70°	1455.2	1451.3	1533.4	2081.1	3047.3	3078.6	2922.2	2863.4	2714.8	1643.0	1740.8
72.5°	934.9	907.6	950.6	1150.1	1576.5	1822.9	1877.7	1912.9	1572.6	1290.9	1400.4
75°	528.1	500.7	485.1	535.9	622.0	719.8	790.2	813.7	911.5	978.0	1036.6
77.5°	160.4	144.7	176.0	234.7	309.1	414.7	504.6	520.3	614.2	692.4	751.1
80°	70.4	78.2	109.5	156.4	219.1	293.4	356.0	379.4	442.0	500.7	516.4
82.5°	43.1	47.0	74.3	105.6	152.5	207.3	254.2	262.1	324.7	371.6	383.4
85°	15.7	19.6	39.2	62.6	97.8	133.0	133.0	144.7	133.0	133.0	144.7
87.5°	0.0	0.0	3.9	7.8	7.8	11.7	15.7	15.7	19.6	23.5	27.4
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°	10088.6	10088.6	10088.6	10088.6	10088.6	10088.6	10088.6	10088.6	10088.6	10088.6	10088.6
2.5°	10116.0	10096.4	10065.2	9951.7	9940.0	9904.7	9709.1	9677.9	9709.1	9615.2	9623.1
5°	10096.4	10155.1	9920.4	9806.9	9595.7	9443.1	9267.1	9177.2	9016.8	8915.1	9028.5
7.5°	10182.4	10159.0	9865.6	9619.2	9302.4	8915.1	8606.0	8430.0	8148.4	8070.1	8128.8
10°	10151.2	10026.0	9681.8	9357.1	8758.6	8418.3	7917.5	7432.5	7166.5	7029.5	7010.0
12.5°	10108.1	10073.0	9497.9	8938.5	8308.7	7592.8	6888.8	6431.0	5996.8	5809.1	5836.4
15°	10159.0	9861.7	9153.7	8445.6	7608.5	6669.7	5910.8	5320.1	5018.9	4897.6	4897.6
17.5°	10135.5	9760.0	8989.4	7894.0	6833.9	5723.0	4889.8	4533.8	4408.6	4408.6	4443.8
20°	10147.3	9826.5	8656.8	7342.5	5918.6	4819.4	4213.0	4084.0	4138.7	4158.3	4177.9
22.5°	10213.8	9607.4	8332.2	6736.1	5069.7	4123.0	3825.7	3829.7	3927.4	4033.1	4013.5
25°	10295.9	9521.4	7937.1	6133.7	4420.3	3782.8	3688.9	3677.1	3751.4	3806.2	3814.0
27.5°	10225.5	9372.7	7534.2	5382.7	3888.4	3555.8	3536.3	3544.1	3567.6	3677.1	3641.9
30°	10456.3	9415.7	7029.5	4752.9	3595.0	3481.5	3458.0	3446.3	3481.5	3512.9	3485.4
32.5°	10741.9	9263.2	6654.0	4146.5	3450.2	3426.7	3379.8	3364.2	3383.7	3352.4	3368.1
35°	10867.0	9235.8	6165.0	3712.4	3336.8	3317.3	3289.9	3285.9	3289.9	3262.4	3239.0
37.5°	10937.5	9364.9	5605.7	3512.9	3266.4	3285.9	3223.4	3215.5	3145.1	3160.7	3172.5
40°	11058.7	9165.4	5151.9	3321.2	3223.4	3184.2	3129.5	3117.7	3070.8	3043.4	3070.8
42.5°	10882.7	9106.8	4705.9	3239.0	3160.7	3117.7	3078.6	3012.1	2996.5	2973.0	2957.3
45°	10741.9	8770.3	4306.9	3137.2	3086.4	3062.9	2988.6	2918.2	2859.5	2883.0	2847.8
47.5°	10847.5	8652.9	3911.8	3051.2	2984.7	2957.3	2883.0	2828.3	2769.5	2742.2	2734.4
50°	11270.0	8872.0	3579.3	2988.6	2898.7	2883.0	2785.2	2722.6	2667.8	2648.3	2656.1
52.5°	12279.2	9470.5	3352.4	2859.5	2816.5	2746.1	2691.3	2613.1	2577.9	2515.3	2554.5
55°	13558.3	10444.6	3293.8	2738.3	2714.8	2652.3	2577.9	2519.2	2452.7	2401.9	2390.1
56°	13969.1	10910.1	3246.8	2691.3	2652.3	2617.0	2519.2	2484.0	2378.4	2366.6	2358.9
57.5°	14301.7	11320.8	3254.6	2601.4	2562.2	2531.0	2472.2	2386.2	2315.8	2272.7	2292.3
60°	13550.6	10597.1	3106.0	2464.4	2456.7	2397.9	2315.8	2276.7	2190.6	2139.8	2128.0
62.5°	10073.0	7193.8	2519.2	2288.4	2284.5	2221.9	2128.0	2085.0	2069.4	1998.9	1998.9
65°	5801.2	4510.3	2178.9	2143.7	2112.4	2049.8	1955.9	1920.7	1881.5	1858.1	1838.6
67.5°	2476.2	2339.3	1979.3	1975.5	1940.3	1862.1	1768.2	1713.4	1662.5	1615.6	1639.1
70°	1795.5	1822.9	1787.7	1768.2	1725.1	1627.3	1545.2	1478.7	1400.4	1369.2	1392.6
72.5°	1423.9	1482.6	1533.4	1537.3	1486.5	1373.1	1283.1	1193.1	1107.1	1064.0	1083.6
75°	1079.7	1118.8	1169.6	1181.4	1107.1	1028.8	942.7	848.9	782.4	731.5	739.3
77.5°	778.5	770.6	817.6	809.8	774.5	719.8	641.5	555.5	481.2	434.2	438.1
80°	532.0	543.7	571.1	567.2	524.2	489.0	430.3	359.9	305.1	266.0	258.2
82.5°	371.6	391.2	414.7	395.1	359.9	324.7	281.6	230.8	187.8	156.4	148.6
85°	133.0	152.5	176.0	187.8	199.5	191.7	160.4	129.1	93.9	78.2	74.3
87.5°	27.4	31.3	35.2	35.2	35.2	31.3	27.4	27.4	23.5	11.7	11.7
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)