

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: P532882

Luminaire Tested: **GALN-SA8B-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38623 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

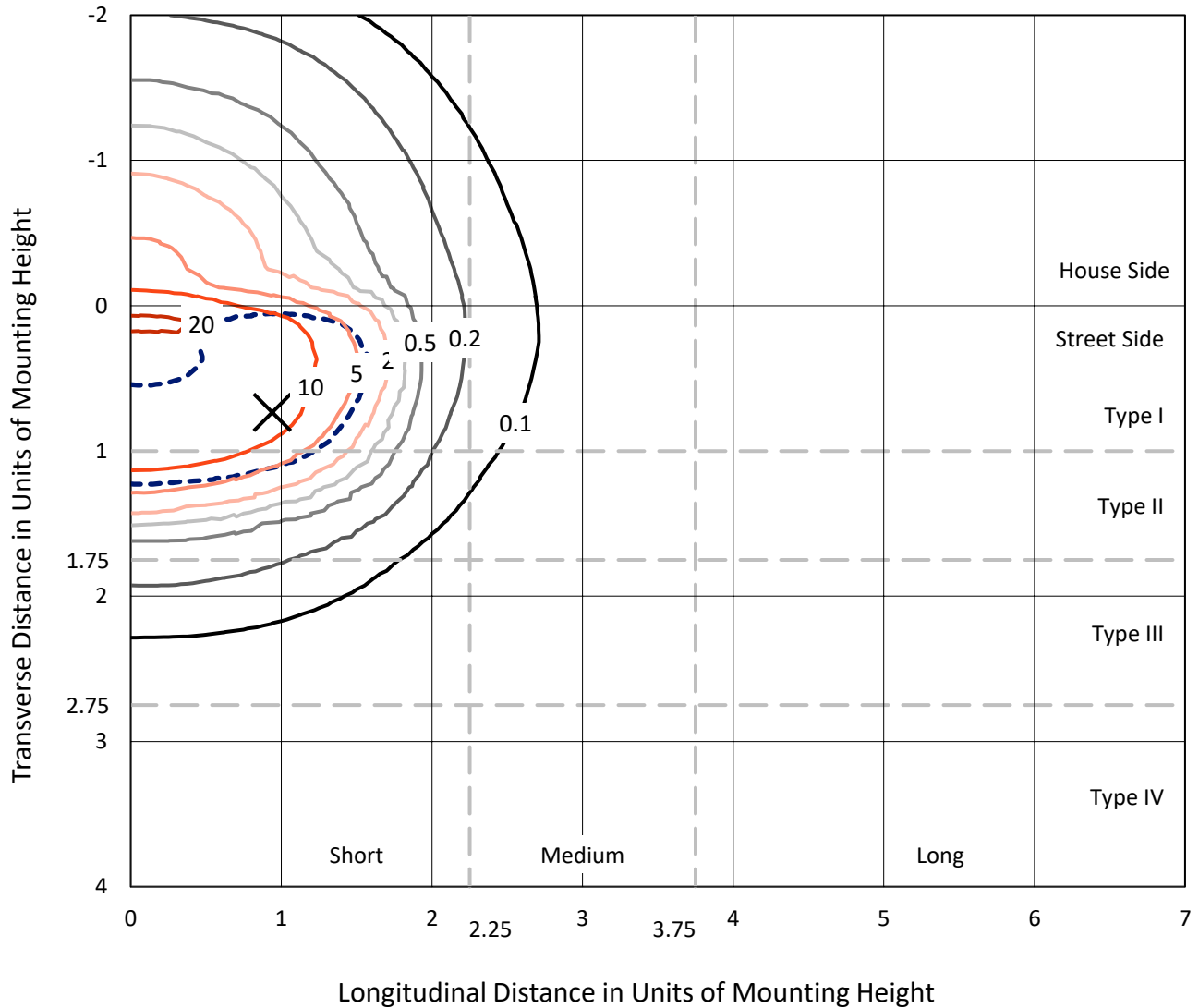
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532882
 CATALOG NUMBER: GALN-SA8B-735-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

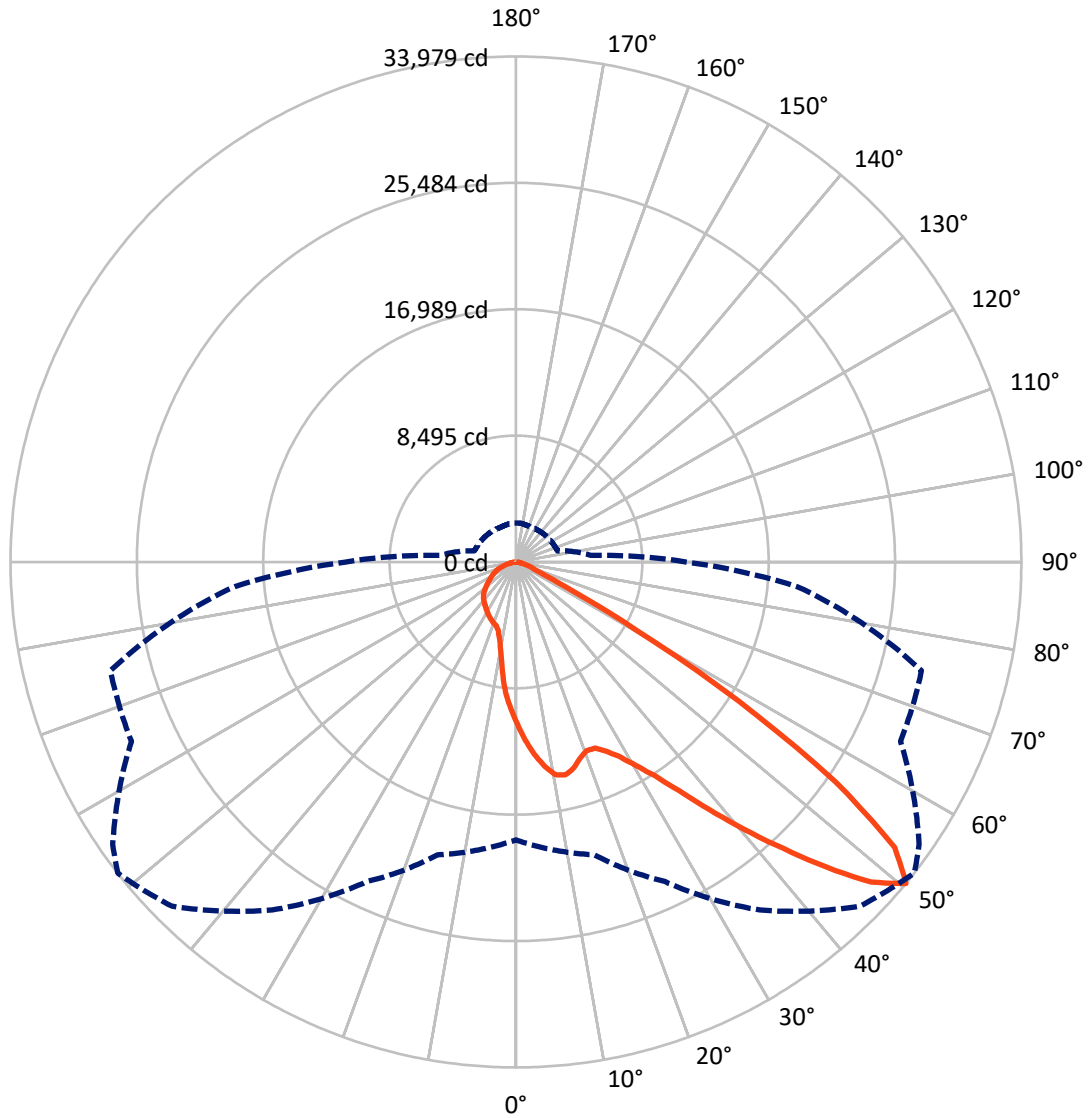
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 fc
 Type II - Short - N/A

REPORT NUMBER: P532882
CATALOG NUMBER: GALN-SA8B-735-U-AFL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P532882
 CATALOG NUMBER: GALN-SA8B-735-U-AFL-GRSWH

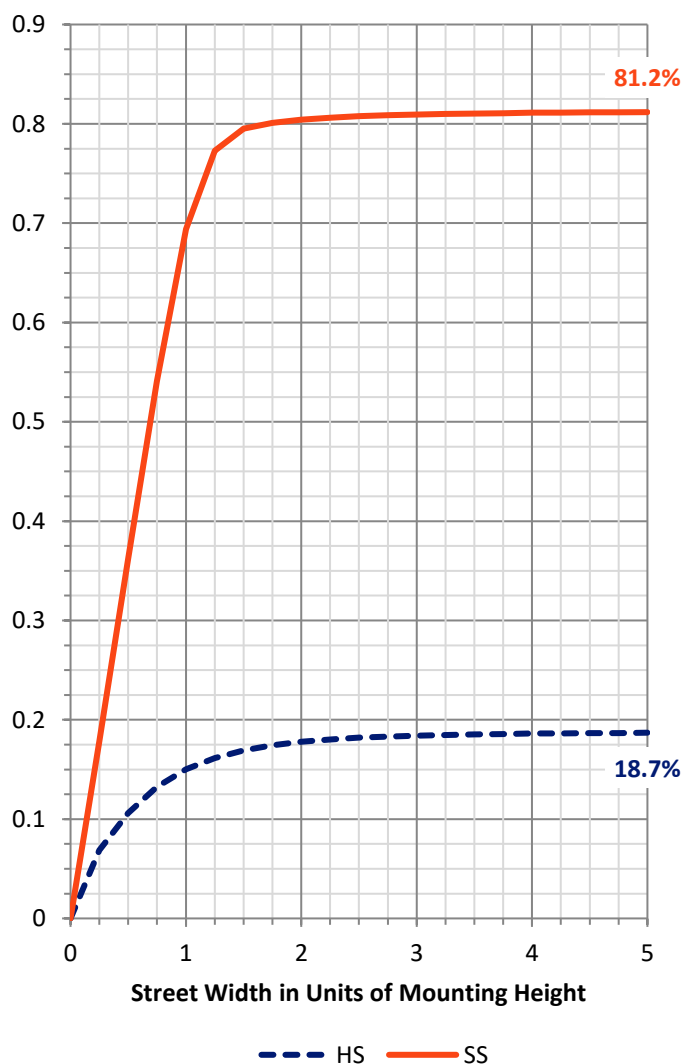
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7260.2	0.0	7260.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	31362.8	0.0	31362.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	38623.0	0.0	38623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1003.5	2.6
10°-20°	2689.5	7.0
20°-30°	4530.4	11.7
30°-40°	7602.4	19.7
40°-50°	11629.9	30.1
50°-60°	8479.1	22.0
60°-70°	1887.0	4.9
70°-80°	680.6	1.8
80°-90°	120.5	0.3
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°	38623.0	100.0
0°-180°	38623.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532882

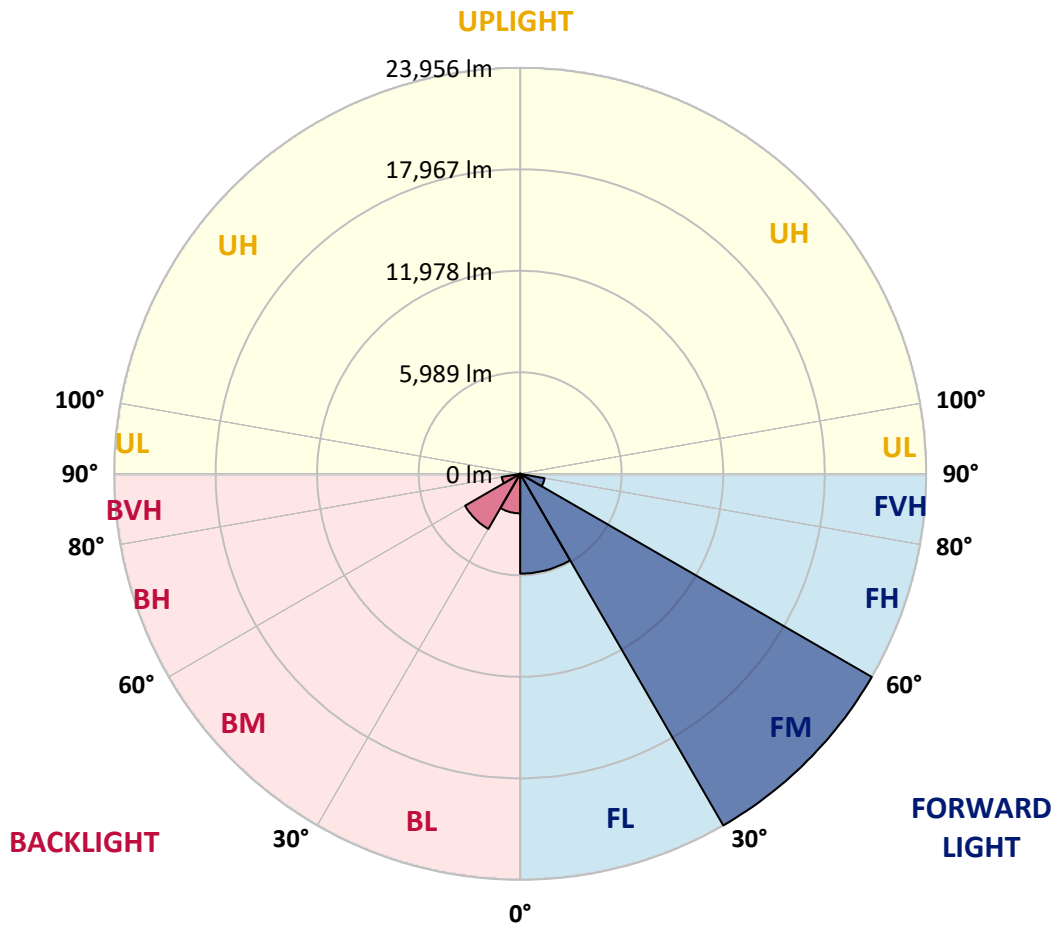
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5891.3	15.3			
FM (30°-60°)	23955.9	62.0			
FH (60°-80°)	1461.5	3.8			G1/1800
FVH (80°-90°)	54.0	0.1			G1/100
BL (0°-30°)	2332.1	6.0	B3/2500		
BM (30°-60°)	3755.5	9.7	B3/5000		
BH (60°-80°)	1106.1	2.9	B3/2500		G3/2500
BVH (80°-90°)	66.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P532882

CATALOG NUMBER: GALN-SA8B-735-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	10887.2	10887.2	10887.2	10887.2	10887.2	10887.2	10887.2	10887.2	10887.2	10887.2	10887.2
2.5°	12818.9	12572.2	12600.1	12423.2	12232.4	12176.5	11981.0	11794.8	11655.2	11357.3	11082.7
5°	14010.4	13936.0	13824.3	13684.6	13540.3	13186.6	12986.4	12753.7	12241.7	11780.9	11324.7
7.5°	14182.7	14168.7	14229.2	14229.2	14280.4	14145.4	13861.5	13698.6	13154.0	12404.6	11557.5
10°	12972.5	13014.4	13307.6	13689.3	14219.9	14587.6	14541.1	14499.2	13903.4	12879.4	11832.1
12.5°	12008.9	11915.9	12088.1	12413.9	13209.8	14098.9	14699.3	14704.0	14550.4	13638.1	12032.2
15°	11464.4	11529.5	11576.1	11729.7	12330.1	13358.8	14415.4	14727.3	15402.2	14173.4	12348.7
17.5°	11813.5	11594.7	11585.4	11622.6	11929.8	12702.5	13889.4	14424.7	15867.6	14862.2	12739.7
20°	12269.6	12265.0	12134.6	12088.1	12083.4	12772.3	13545.0	14271.1	16114.3	15755.9	13135.4
22.5°	13070.2	13070.2	12856.1	12753.7	12534.9	13098.1	13591.5	14084.9	16523.9	16370.3	13326.2
25°	14410.7	14192.0	13824.3	13572.9	13447.2	13647.4	14084.9	14527.1	16882.3	17022.0	13721.9
27.5°	15648.9	15304.4	15122.9	14690.0	14522.5	14406.1	14806.4	15253.2	17301.3	18036.7	13936.0
30°	17054.6	16994.1	16668.2	16109.7	15695.4	15481.3	15849.0	16291.2	18069.3	19074.7	14429.4
32.5°	19568.1	19018.8	18576.6	17892.4	17217.5	16761.3	17124.4	17417.6	19344.6	20159.2	14969.3
35°	22281.7	22104.8	21341.5	20108.0	19074.7	18665.1	18879.2	19098.0	20829.5	21816.3	15876.9
37.5°	24948.8	24706.8	24078.4	23040.4	21783.7	20950.5	21104.1	21360.1	22495.8	24050.5	16984.8
40°	26866.5	26568.6	26252.1	26098.5	24851.1	23710.7	23622.3	23687.4	24748.7	26145.1	18213.6
42.5°	27006.2	27373.9	27471.6	28090.7	27797.5	26861.9	26317.3	26331.3	26899.1	28216.4	19456.4
45°	26712.9	26373.1	27094.6	28784.2	29752.4	30189.9	29273.0	29156.6	28230.3	29417.3	20075.4
47.5°	23636.2	23729.3	24948.8	27620.6	30418.0	32373.0	32158.8	31772.5	28942.5	29375.4	19977.7
50°	18683.7	19246.9	20378.0	23706.0	28556.2	32717.4	33978.8	33085.1	28518.9	28221.0	18981.6
52.5°	12441.8	12674.6	13419.3	17715.5	22961.3	29245.1	31884.2	32089.0	28127.9	26708.3	17720.2
55°	5539.0	5520.4	6567.7	9253.4	14406.1	22253.8	26052.0	27299.4	26624.5	25167.6	16491.4
57.5°	2345.9	2425.1	2853.3	3998.3	7084.3	13428.6	17650.4	18744.2	20475.7	20666.6	12651.3
60°	1587.2	1596.5	1712.9	2001.5	2965.0	6307.0	9258.1	10570.7	11808.8	11725.0	6712.0
62.5°	1247.4	1280.0	1368.5	1484.8	1759.5	2862.6	4142.6	4873.4	4952.5	4165.9	2546.1
65°	1065.9	1070.6	1159.0	1256.8	1377.8	1666.4	1996.8	2034.1	2057.3	1982.9	1871.2
67.5°	879.7	889.0	958.9	1070.6	1182.3	1275.4	1368.5	1415.0	1522.1	1731.5	1703.6
70°	698.2	712.2	772.7	865.8	968.2	1024.0	1140.4	1182.3	1280.0	1442.9	1508.1
72.5°	530.6	535.3	586.5	651.6	744.7	800.6	898.3	944.9	1010.1	1149.7	1210.2
75°	381.7	395.6	432.9	465.5	479.4	516.7	609.8	661.0	754.1	814.6	819.2
77.5°	200.1	209.5	218.8	218.8	265.3	335.1	395.6	423.6	488.7	535.3	512.0
80°	79.1	83.8	107.1	144.3	186.2	242.0	283.9	297.9	353.8	381.7	395.6
82.5°	46.5	51.2	69.8	102.4	135.0	172.2	204.8	218.8	256.0	288.6	297.9
85°	23.3	27.9	41.9	65.2	88.4	107.1	102.4	97.7	97.7	93.1	97.7
87.5°	9.3	9.3	14.0	14.0	14.0	18.6	23.3	23.3	23.3	27.9	27.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P532882

CATALOG NUMBER: GALN-SA8B-735-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10887.2	10887.2	10887.2	10887.2	10887.2	10887.2	10887.2	10887.2	10887.2	10887.2	10887.2
2.5°	10901.1	10715.0	10542.7	10226.2	9881.8	9784.0	9383.7	9239.4	9137.0	9016.0	8978.8
5°	10957.0	10710.3	10156.4	9518.7	9011.4	8359.7	7931.5	7470.7	7135.6	7051.8	7028.5
7.5°	11073.4	10649.8	9695.6	8732.1	7694.1	6809.7	6134.8	5771.7	5450.6	5432.0	5399.4
10°	11203.7	10468.3	9192.9	7680.1	6353.6	5534.4	5129.4	4971.1	4892.0	4873.4	4864.1
12.5°	11310.8	10431.0	8629.7	6656.1	5404.0	4910.6	4789.6	4775.7	4808.2	4817.5	4836.2
15°	11357.3	10282.1	7950.1	5739.2	4812.9	4631.4	4682.6	4738.4	4761.7	4822.2	4775.7
17.5°	11445.7	10091.2	7112.3	5013.0	4482.4	4515.0	4603.4	4668.6	4705.8	4747.7	4687.2
20°	11492.3	9919.0	6325.6	4580.2	4366.0	4426.6	4547.6	4598.8	4645.3	4663.9	4594.1
22.5°	11450.4	9565.3	5632.1	4231.1	4254.3	4333.5	4440.5	4496.4	4468.4	4394.0	4352.1
25°	11338.7	9067.2	4910.6	4007.6	4096.1	4235.7	4319.5	4277.6	4226.4	4184.5	4170.5
27.5°	11334.0	8457.5	4389.3	3802.8	3961.1	4151.9	4124.0	4086.8	4110.0	4077.5	4040.2
30°	11357.3	7866.3	3961.1	3686.5	3863.3	3956.4	3989.0	3951.8	3979.7	3919.2	3937.8
32.5°	11236.3	7289.2	3681.8	3551.5	3747.0	3742.3	3849.4	3877.3	3812.1	3686.5	3705.1
35°	11287.5	6823.7	3444.4	3491.0	3616.6	3616.6	3700.4	3667.8	3495.6	3421.2	3439.8
37.5°	11641.2	6367.5	3328.1	3407.2	3491.0	3528.2	3500.3	3360.6	3318.8	3318.8	3328.1
40°	11976.4	5976.5	3258.2	3388.6	3374.6	3397.9	3193.1	3207.0	3207.0	3211.7	3188.4
42.5°	12274.3	5711.2	3202.4	3276.9	3300.1	3179.1	3053.4	3039.5	3072.1	3067.4	3048.8
45°	12381.3	5492.5	3123.3	3151.2	3169.8	2969.7	2909.1	2881.2	2918.5	2932.4	2951.0
47.5°	11971.7	5310.9	3034.8	2979.0	2941.7	2811.4	2732.3	2681.1	2727.6	2806.7	2825.4
50°	11445.7	5073.5	2895.2	2788.1	2709.0	2653.1	2597.3	2546.1	2578.7	2634.5	2620.6
52.5°	10668.4	4701.2	2718.3	2606.6	2471.6	2485.6	2434.4	2406.4	2425.1	2425.1	2411.1
55°	9560.6	3863.3	2420.4	2341.3	2229.6	2266.8	2276.1	2238.9	2201.6	2234.2	2206.3
57.5°	6525.8	2727.6	2159.7	2159.7	2048.0	2099.2	2094.6	2006.1	1917.7	1927.0	1908.4
60°	3774.9	2173.7	1992.2	1973.6	1857.2	1899.1	1908.4	1847.9	1712.9	1722.2	1703.6
62.5°	2145.8	1857.2	1740.8	1712.9	1689.6	1726.9	1726.9	1647.7	1531.4	1540.7	1522.1
65°	1824.6	1722.2	1554.6	1550.0	1540.7	1550.0	1512.8	1429.0	1326.6	1284.7	1289.3
67.5°	1657.0	1591.9	1429.0	1387.1	1359.2	1354.5	1284.7	1205.5	1159.0	1121.8	1117.1
70°	1452.2	1401.0	1280.0	1224.2	1196.2	1131.1	1061.3	1010.1	944.9	926.3	944.9
72.5°	1149.7	1145.0	1098.5	1038.0	977.5	926.3	865.8	795.9	735.4	721.5	688.9
75°	795.9	805.3	814.6	805.3	754.1	688.9	619.1	563.2	488.7	446.8	437.5
77.5°	521.3	535.3	549.2	530.6	498.0	437.5	391.0	321.2	265.3	232.7	228.1
80°	381.7	400.3	409.6	395.6	358.4	311.9	260.7	204.8	162.9	135.0	135.0
82.5°	293.2	311.9	321.2	297.9	260.7	223.4	186.2	144.3	111.7	88.4	83.8
85°	102.4	97.7	116.4	121.0	144.3	135.0	111.7	83.8	65.2	46.5	41.9
87.5°	27.9	27.9	32.6	32.6	27.9	23.3	23.3	23.3	18.6	14.0	14.0
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)