

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: P651468

Luminaire Tested: **GALN-SA6D-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22757.5 lumens
Efficiency: N/A
Efficacy: 61.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

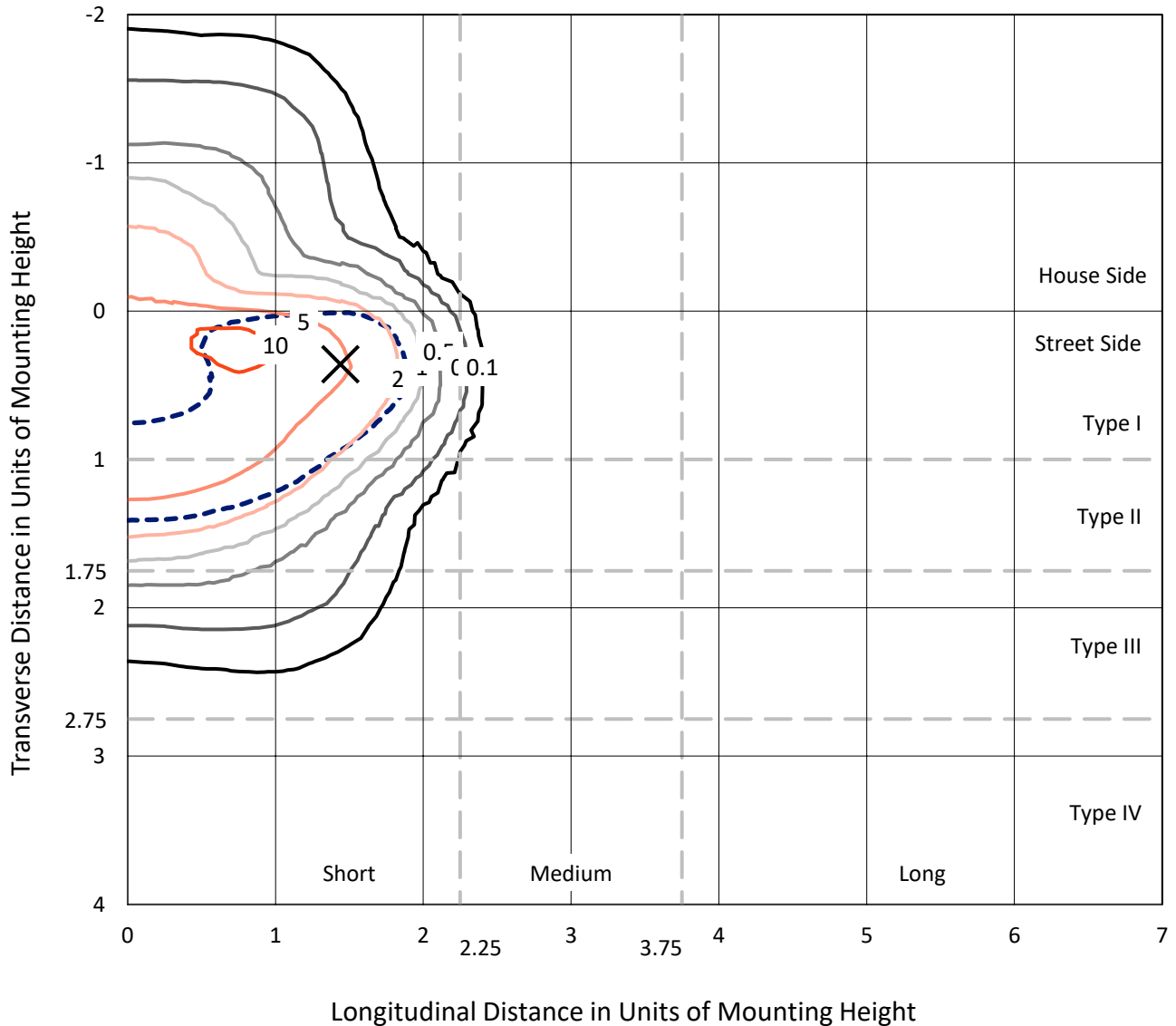
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

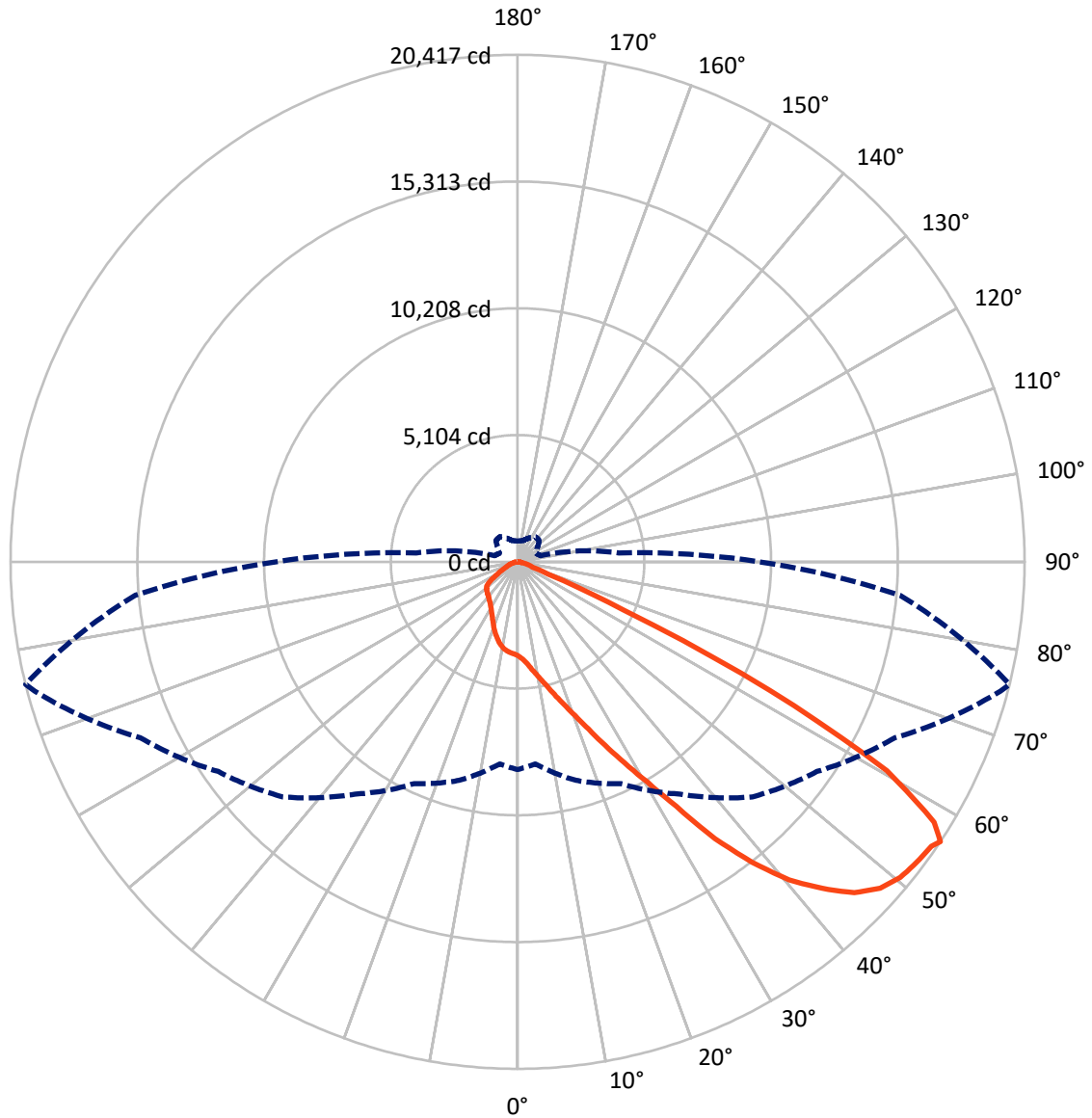
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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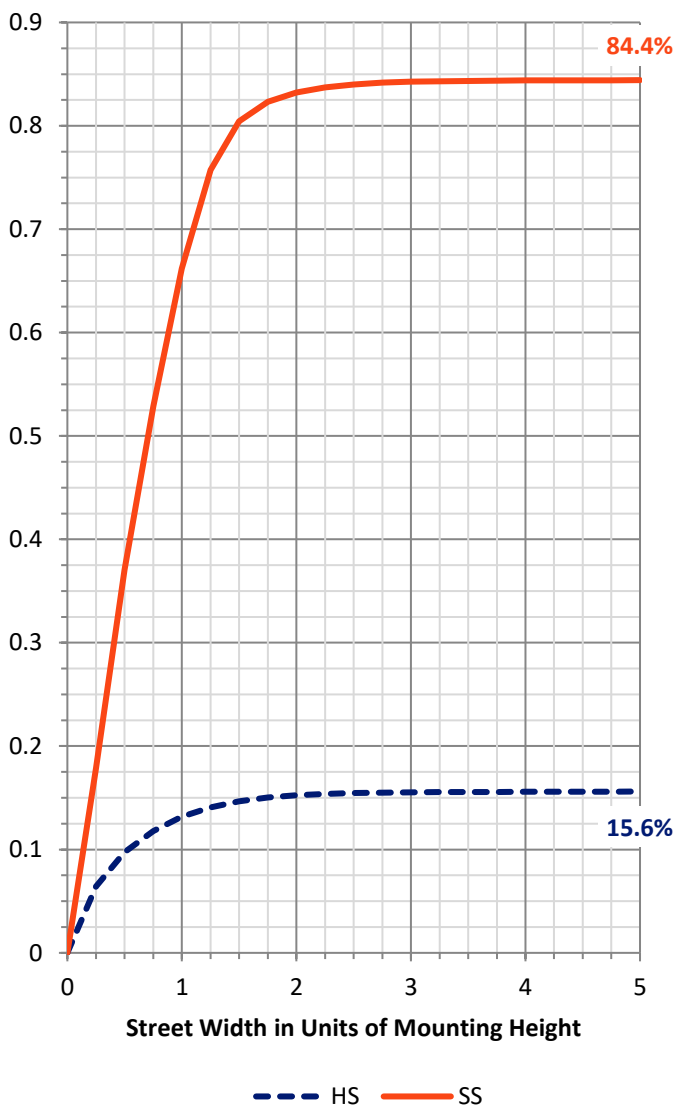
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3575.1	0.0	3575.1
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	19182.4	0.0	19182.4
	% Fixture	84.3	0.0	84.3
Total	Lumens	22757.5	0.0	22757.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.6	1.7
10°-20°	1225.9	5.4
20°-30°	2222.9	9.8
30°-40°	3833.5	16.8
40°-50°	6227.6	27.4
50°-60°	6564.1	28.8
60°-70°	2005.6	8.8
70°-80°	257.1	1.1
80°-90°	39.1	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°	22757.5	100.0
0°-180°	22757.5	100.0

Coefficient of Utilization

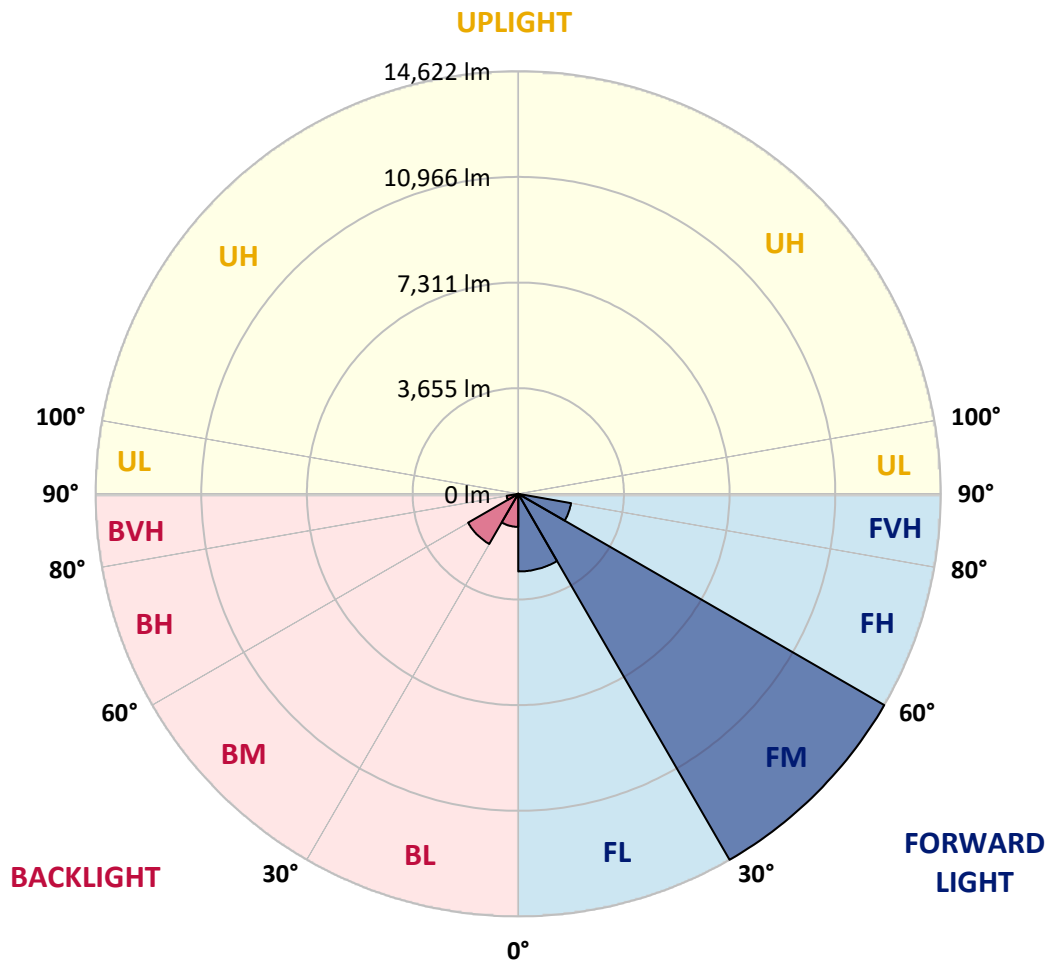


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2686.7	11.8			
FM (30°-60°)	14621.6	64.2			
FH (60°-80°)	1854.9	8.2			G2/5000
FVH (80°-90°)	19.2	0.1			G1/100
BL (0°-30°)	1143.7	5.0	B3/2500		
BM (30°-60°)	2003.6	8.8	B2/2500		
BH (60°-80°)	407.9	1.8	B1/500		G1/500
BVH (80°-90°)	19.9	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3788.0	3788.0	3788.0	3788.0	3788.0	3788.0	3788.0	3788.0	3788.0	3788.0	3788.0
2.5°	4362.7	4262.0	4266.2	4257.8	4245.3	4199.1	4060.7	4039.7	3947.4	3922.3	3838.3
5°	4887.1	4799.0	4849.3	4773.9	4702.5	4660.6	4434.0	4329.1	4182.4	4127.8	4010.3
7.5°	5214.3	5172.3	5155.6	5159.8	5092.7	4987.8	4887.1	4656.4	4459.2	4417.3	4169.8
10°	5373.7	5348.5	5373.7	5361.1	5390.5	5403.1	5226.9	5088.5	4799.0	4727.7	4341.7
12.5°	5411.4	5461.8	5482.7	5537.3	5608.6	5730.2	5717.7	5528.9	5143.0	5096.8	4606.0
15°	5503.8	5545.7	5524.7	5612.8	5747.1	5952.6	6061.7	6032.3	5617.0	5533.1	4912.3
17.5°	5587.6	5512.2	5583.4	5759.6	5893.9	6208.5	6472.8	6594.4	6133.0	6036.5	5193.3
20°	5700.9	5679.9	5667.3	5755.5	5994.6	6414.1	6938.4	7160.7	6711.9	6611.2	5596.0
22.5°	6044.9	6049.1	6040.7	5910.6	6082.6	6556.7	7345.3	7894.8	7404.0	7320.1	6053.3
25°	6497.9	6443.4	6401.4	6296.6	6275.6	6686.7	7756.4	8792.6	8234.7	8175.9	6548.3
27.5°	6976.2	6976.2	6850.3	6753.8	6619.6	7009.7	8134.0	9665.1	9237.2	9157.5	6980.4
30°	7496.3	7525.7	7508.9	7303.3	7219.5	7362.1	8519.9	10780.9	10386.6	10285.9	7693.5
32.5°	8264.0	8201.1	8272.4	8100.4	7852.9	7978.7	9128.1	11779.3	11880.1	11737.4	8628.9
35°	9279.2	9241.4	9195.2	8914.2	8620.6	8721.3	9988.1	13008.4	13755.1	13683.8	9572.9
37.5°	10189.5	10168.4	10130.8	9937.8	9598.0	9719.6	10965.5	14287.9	15584.2	15349.2	10906.8
40°	11145.9	11259.1	11137.5	10965.5	10655.1	10923.6	12114.9	15047.2	17123.7	16838.4	11926.1
42.5°	12442.2	12354.0	12408.5	12093.9	11926.1	12219.8	13268.5	15806.4	18319.3	17979.4	13008.4
45°	13822.3	13826.5	13679.6	13579.0	13142.7	13461.5	13977.5	16225.9	19271.4	19007.2	13826.5
47.5°	14707.4	14703.2	14862.6	15022.0	14573.2	14258.6	14459.9	16624.5	19762.2	19640.6	14124.3
50°	14569.0	14610.9	14816.5	15412.2	15647.1	15223.4	14912.9	16507.0	19984.6	19972.0	14380.2
52.5°	12672.9	12811.3	13155.3	14015.3	15198.2	15722.6	15386.9	16725.1	20093.7	20114.6	14761.9
55°	9648.3	9723.8	10378.2	11422.8	12731.6	14527.0	15198.2	16897.1	20177.6	20215.3	15223.4
56°	8368.9	8167.5	9111.4	9853.8	11418.6	13381.8	14719.9	16762.9	20127.2	20416.7	15454.0
57.5°	6317.6	6183.3	6946.8	7873.9	9379.8	11452.1	13235.0	16129.5	19787.5	19783.3	15122.7
60°	3842.5	3708.3	4295.6	4841.0	5684.2	7051.7	8943.5	12844.8	16729.3	17081.7	12245.0
62.5°	2286.3	2370.1	2949.1	3280.4	3553.1	3695.7	4627.0	7634.8	11162.7	11414.4	7597.0
65°	1522.7	1552.1	1988.4	2533.8	2655.4	2114.3	1883.5	3091.7	4841.0	4685.7	3133.6
67.5°	939.6	1006.8	1334.0	1904.5	2110.1	1543.7	893.5	1153.6	1334.0	1334.0	906.1
70°	570.5	604.1	889.4	1296.2	1447.3	994.2	650.2	650.2	641.9	629.2	541.2
72.5°	272.7	293.7	453.0	667.0	679.6	524.4	503.4	549.5	537.0	532.8	448.8
75°	117.5	125.8	159.4	209.7	239.1	222.4	306.2	394.3	406.9	394.3	323.0
77.5°	37.8	42.0	58.7	75.5	79.7	96.5	130.0	163.6	188.8	176.2	159.4
80°	4.2	8.4	16.8	37.8	58.7	75.5	96.5	109.1	121.7	121.7	113.3
82.5°	4.2	4.2	16.8	33.6	54.5	71.3	92.3	104.9	121.7	125.8	117.5
85°	0.0	4.2	12.6	29.4	46.2	46.2	42.0	42.0	29.4	29.4	29.4
87.5°	0.0	0.0	4.2	4.2	4.2	8.4	8.4	8.4	8.4	8.4	8.4
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°	3788.0	3788.0	3788.0	3788.0	3788.0	3788.0	3788.0	3788.0	3788.0	3788.0	3788.0
2.5°	3821.6	3813.2	3699.9	3628.6	3590.8	3515.4	3469.2	3435.7	3410.5	3381.1	3385.3
5°	3871.9	3842.5	3653.8	3523.7	3368.5	3284.6	3213.3	3154.6	3116.8	3108.4	3091.7
7.5°	4014.5	3859.3	3574.1	3339.2	3142.0	3058.1	2995.1	2957.5	2974.2	2936.4	2965.8
10°	4123.6	3892.9	3477.6	3137.8	2940.6	2877.7	2844.2	2873.5	2915.5	2898.7	2877.7
12.5°	4257.8	3926.5	3322.4	2944.8	2760.2	2714.1	2772.9	2827.4	2911.3	2944.8	2902.9
15°	4408.9	3964.2	3125.2	2722.5	2605.1	2642.8	2743.5	2840.0	2923.8	2965.8	2991.0
17.5°	4593.5	3951.6	2932.2	2546.3	2458.2	2567.3	2688.9	2777.1	2902.9	2965.8	2949.1
20°	4765.4	3909.6	2718.3	2370.1	2374.3	2475.0	2575.6	2718.3	2785.4	2869.3	2840.0
22.5°	4929.0	3834.1	2496.0	2248.5	2248.5	2403.7	2454.0	2546.3	2605.1	2647.0	2642.8
25°	5159.8	3691.6	2311.4	2131.0	2181.4	2282.1	2324.0	2353.4	2328.1	2361.8	2365.9
27.5°	5323.4	3544.7	2160.4	2026.1	2118.4	2193.9	2181.4	2164.6	2105.9	2059.7	2089.0
30°	5499.6	3372.7	2030.3	1954.8	2005.2	2072.3	2021.9	1971.6	1879.3	1803.8	1808.0
32.5°	5751.3	3293.0	1917.1	1871.0	1938.1	1946.4	1891.9	1816.4	1724.1	1652.8	1648.6
35°	6221.0	3242.6	1820.6	1816.4	1829.0	1833.2	1778.6	1686.4	1648.6	1589.9	1610.9
37.5°	6690.9	3217.5	1753.5	1736.7	1732.5	1736.7	1673.8	1585.7	1657.0	1652.8	1661.2
40°	7290.8	3330.8	1657.0	1636.0	1640.2	1640.2	1560.5	1535.3	1661.2	1673.8	1678.0
42.5°	7899.0	3473.4	1594.0	1526.9	1543.7	1543.7	1501.8	1472.4	1560.5	1476.6	1464.0
45°	8427.6	3683.2	1526.9	1417.8	1459.8	1480.8	1468.2	1417.8	1363.3	1220.7	1220.7
47.5°	8599.6	3867.7	1447.3	1313.0	1346.6	1438.9	1401.1	1296.2	1199.8	1082.3	1073.9
50°	8901.6	4069.1	1384.3	1191.4	1262.7	1376.0	1338.2	1233.3	1124.2	1040.3	1044.5
52.5°	9212.1	4299.8	1266.9	1048.7	1136.9	1325.6	1325.6	1208.1	1040.3	981.6	973.2
55°	9677.7	4291.4	1057.1	859.9	1015.2	1250.1	1271.1	1082.3	931.2	885.2	885.2
56°	9744.8	4098.4	952.3	805.4	960.7	1229.1	1233.3	1048.7	889.4	839.0	839.0
57.5°	9241.4	3699.9	834.8	738.3	893.5	1191.4	1195.6	1019.4	855.8	784.5	776.1
60°	7110.4	2504.3	696.3	658.6	809.6	1073.9	1094.9	927.1	750.9	696.3	692.1
62.5°	4014.5	1388.5	612.5	595.7	696.3	914.5	977.4	809.6	637.6	608.3	616.6
65°	1833.2	763.5	516.0	482.4	562.1	704.8	788.6	667.0	524.4	490.8	490.8
67.5°	671.2	520.2	440.4	381.7	394.3	457.3	511.7	432.1	348.2	297.8	310.4
70°	478.2	436.3	385.9	331.4	306.2	297.8	293.7	243.3	172.0	134.2	142.6
72.5°	385.9	360.8	323.0	281.1	239.1	201.3	172.0	125.8	79.7	54.5	50.4
75°	276.9	264.2	234.9	201.3	167.8	142.6	117.5	79.7	42.0	20.9	20.9
77.5°	142.6	142.6	138.4	125.8	104.9	83.9	67.1	46.2	25.1	8.4	8.4
80°	109.1	117.5	121.7	109.1	96.5	75.5	54.5	33.6	16.8	4.2	4.2
82.5°	104.9	121.7	130.0	113.3	96.5	71.3	54.5	33.6	16.8	4.2	4.2
85°	25.1	25.1	37.8	42.0	54.5	58.7	46.2	29.4	12.6	4.2	4.2
87.5°	8.4	8.4	8.4	8.4	8.4	8.4	4.2	4.2	4.2	4.2	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)