

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: P651637

Luminaire Tested: **GALN-SA9D-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51828.3 lumens
Efficiency: N/A
Efficacy: 93.9 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

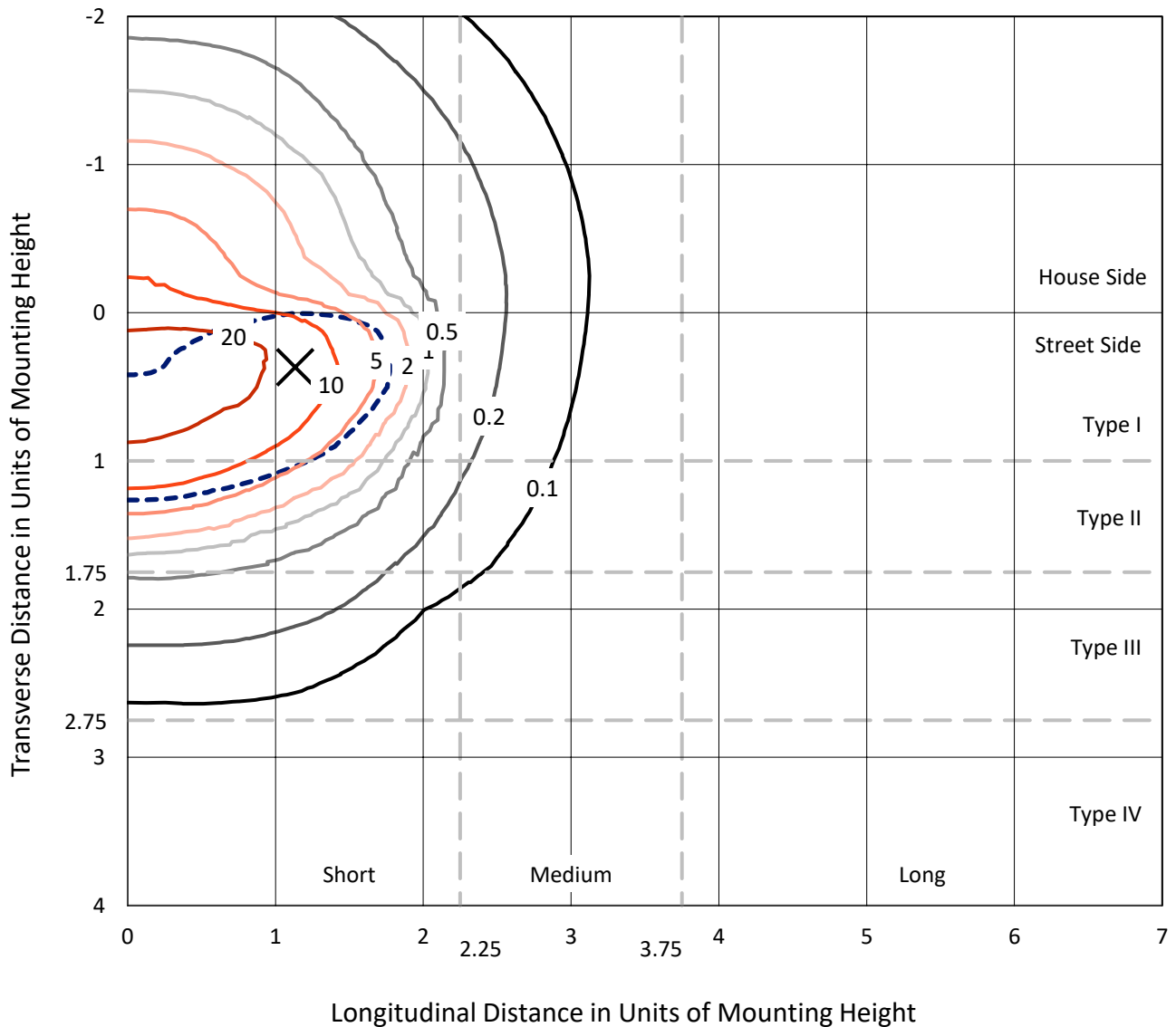
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

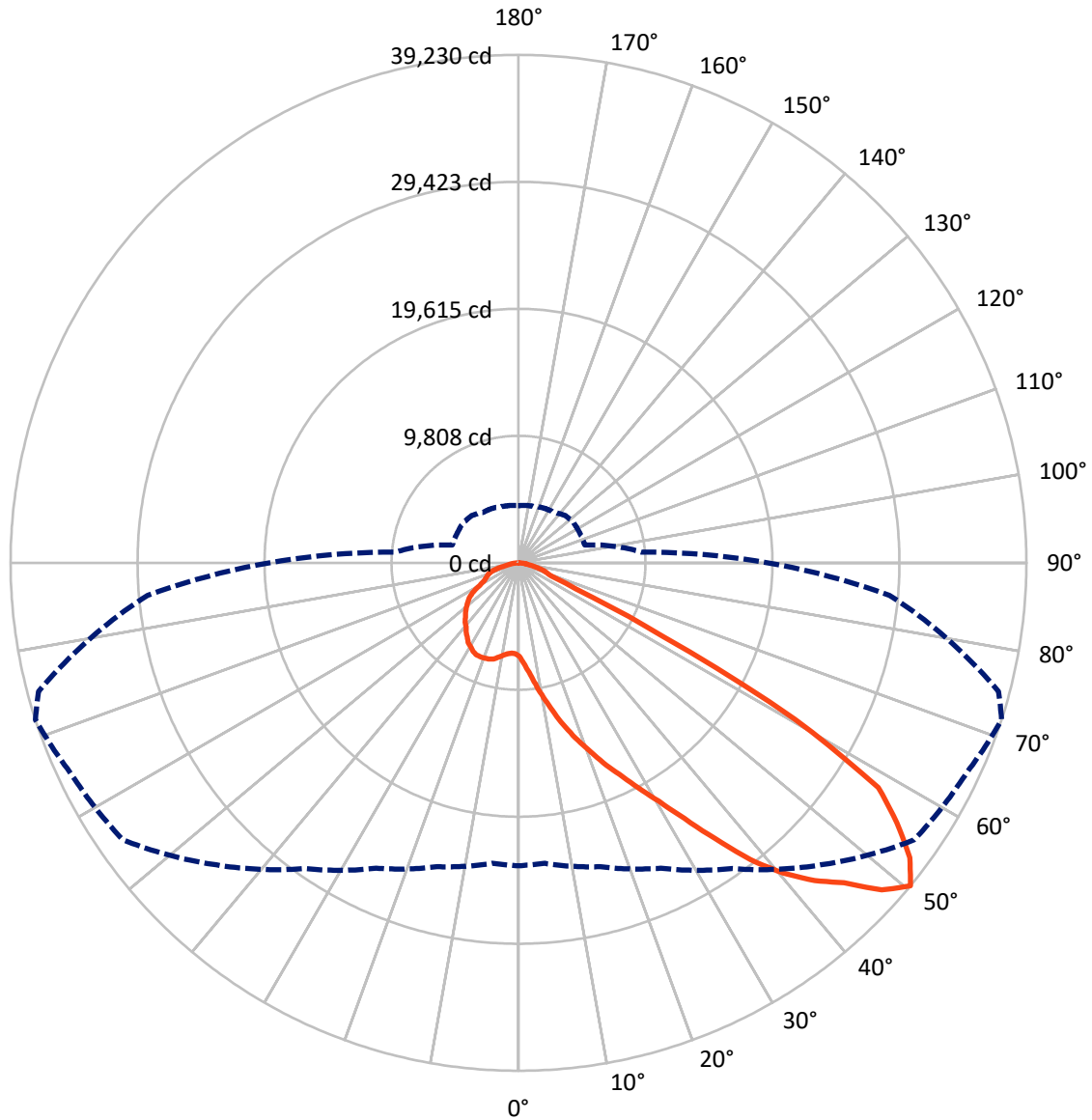
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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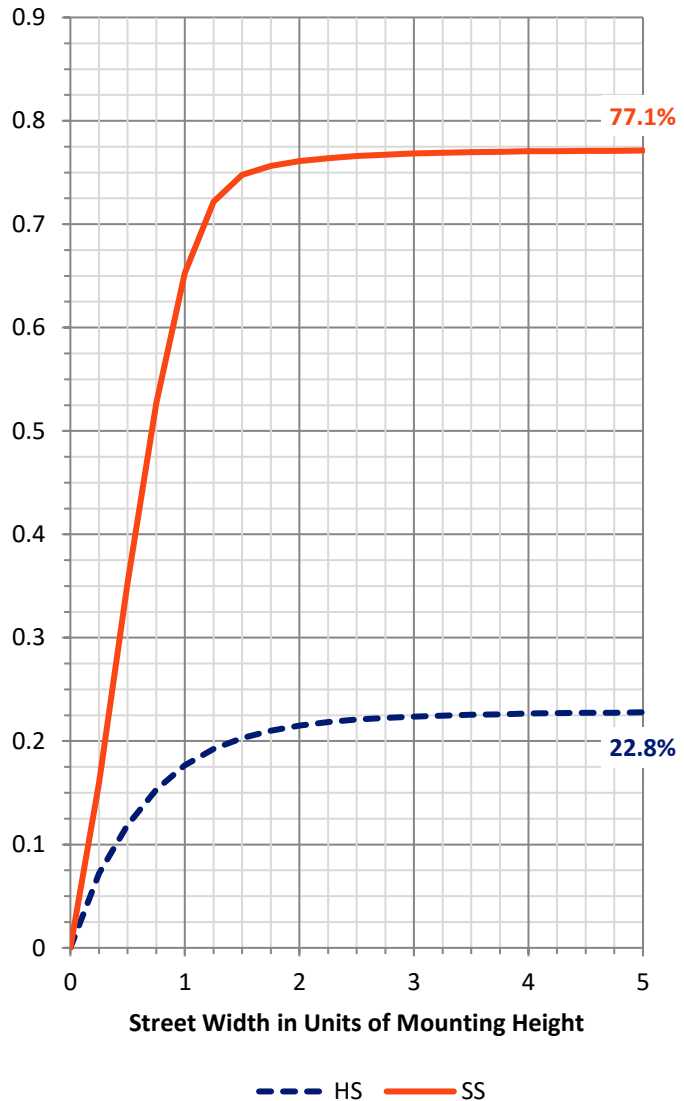
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11874.2	0.0	11874.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	39954.1	0.0	39954.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	51828.3	0.0	51828.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	848.7	1.6
10°-20°	3172.6	6.1
20°-30°	6151.4	11.9
30°-40°	10190.8	19.7
40°-50°	14259.1	27.5
50°-60°	12029.4	23.2
60°-70°	3666.5	7.1
70°-80°	1286.3	2.5
80°-90°	223.6	0.4
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°	51828.3	100.0
0°-180°	51828.3	100.0

Coefficient of Utilization

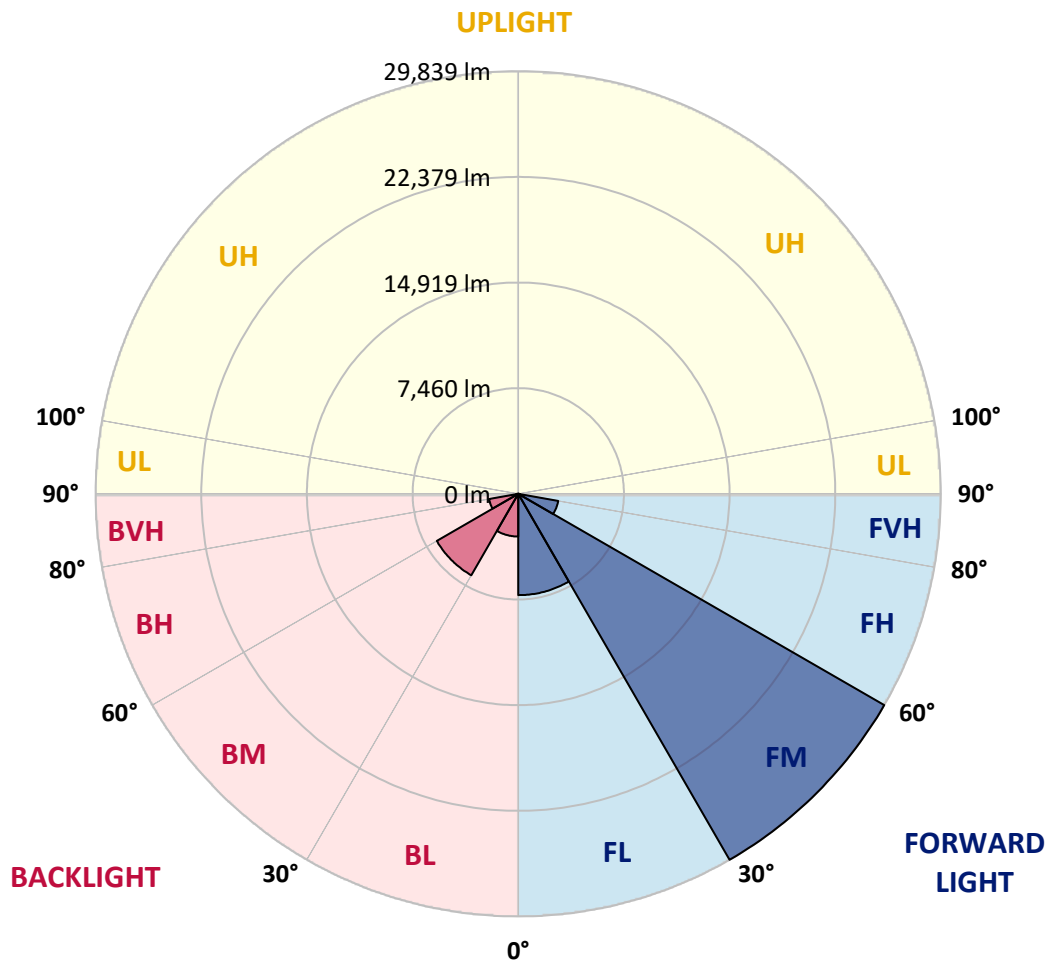


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7154.2	13.8			
FM (30°-60°)	29838.9	57.6			
FH (60°-80°)	2860.8	5.5			G2/5000
FVH (80°-90°)	100.2	0.2			G2/225
BL (0°-30°)	3018.5	5.8	B4/5000		
BM (30°-60°)	6640.2	12.8	B4/8500		
BH (60°-80°)	2092.0	4.0	B3/2500		G3/2500
BVH (80°-90°)	123.5	0.2			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°	55°	65°	72°	75°	85°
0°	7214.9	7214.9	7214.9	7214.9	7214.9	7214.9	7214.9	7214.9	7214.9	7214.9	7214.9
2.5°	9280.0	9222.3	9049.2	8991.4	8786.2	8414.2	8286.0	7907.6	7747.2	7599.8	7426.6
5°	11736.3	11467.0	11447.7	11120.6	10646.1	10370.3	9549.4	8997.9	8491.2	8234.7	7760.1
7.5°	13301.2	13307.6	13307.6	13038.2	12659.8	11960.8	11223.2	10229.2	9466.0	9087.6	8279.6
10°	14789.1	14660.7	14590.3	14564.5	14308.0	13628.2	12839.4	11608.1	10562.7	10120.2	8670.8
12.5°	15840.8	15731.7	15892.1	15808.8	15622.8	15180.2	14436.3	13031.8	11723.5	11127.0	9299.3
15°	16341.1	16418.0	16546.3	16777.1	16693.8	16527.0	15706.1	14494.0	12974.1	12300.6	9857.2
17.5°	17110.6	16899.0	17053.0	17341.5	17572.4	17495.4	17027.2	15552.2	14211.8	13384.5	10607.5
20°	17649.4	17527.5	17604.5	17937.9	18111.1	18547.2	18303.5	16937.5	15398.3	14526.1	11492.6
22.5°	19188.5	19009.0	18758.8	18810.1	18874.3	19182.1	19239.8	18457.4	16777.1	15853.6	12332.8
25°	21086.9	20920.1	20625.1	20323.7	20137.7	20080.0	20278.8	19650.3	18098.3	17142.7	13237.0
27.5°	23177.6	22895.4	22709.4	22087.4	21587.1	21510.2	21414.0	21074.0	19663.1	18630.6	14256.7
30°	25210.6	24986.1	24736.0	23741.9	23222.5	23139.1	22664.5	22760.7	21362.7	20214.7	15411.2
32.5°	26749.8	26769.0	26198.2	25447.9	24960.5	24518.0	24344.8	24620.6	23543.1	22619.6	16700.2
35°	27993.9	28051.7	27506.6	26826.7	26300.8	26608.7	26531.8	26660.0	26146.9	25018.2	18200.9
37.5°	29206.1	28917.4	28333.9	28006.8	27731.0	28237.7	28891.8	29000.9	29097.1	27769.5	19945.3
40°	29404.9	29430.5	29090.6	29321.5	28975.2	29738.3	31258.4	31117.3	31508.5	30347.7	21837.2
42.5°	29122.7	29180.4	29315.1	29642.2	30475.9	31393.0	33650.5	33073.3	33547.9	32515.3	23677.9
45°	28660.9	28423.7	28590.4	29834.6	31277.5	33317.0	35837.4	35388.5	35234.5	34368.8	25871.2
47.5°	26454.7	26698.5	27218.0	28750.8	30918.4	33650.5	37389.4	37286.8	37748.5	37139.3	27865.7
50°	23395.7	23299.5	24299.9	26025.1	28821.3	32996.3	37306.1	38236.0	39230.0	38383.5	28757.2
52.5°	17521.1	18034.2	18893.6	21035.6	25024.6	29430.5	35484.6	37036.7	37844.7	37665.2	28038.9
55°	11075.7	11229.6	11749.1	14295.2	17886.6	23620.2	30418.2	34016.0	35459.0	36132.5	27378.3
57.5°	5380.7	5092.2	5727.0	7772.9	10331.8	15885.7	23459.8	29629.4	32765.4	33984.0	25941.7
60°	2809.0	2918.0	3168.1	3899.3	5342.3	8247.5	14622.3	19746.5	24537.2	26409.9	19663.1
62.5°	2328.1	2366.5	2533.3	2898.8	3553.0	4745.8	7465.1	9626.3	12512.3	14199.0	11184.8
65°	1975.3	1994.5	2174.1	2417.8	2834.7	3341.3	3841.5	4021.2	4867.7	4996.0	3976.2
67.5°	1648.2	1667.5	1859.9	2090.7	2360.1	2494.7	2623.0	2610.2	2706.4	2667.9	2661.5
70°	1269.8	1289.1	1487.9	1731.6	1866.3	1789.3	2186.9	2276.8	2315.2	2347.2	2398.5
72.5°	917.1	955.5	1109.5	1282.7	1212.1	1391.7	1802.1	1936.8	1988.1	2007.4	2071.5
75°	667.0	679.8	718.3	667.0	769.6	968.4	1269.8	1436.6	1500.7	1519.9	1616.1
77.5°	295.0	301.4	307.8	384.8	493.8	602.8	756.7	891.5	981.2	1006.8	1032.6
80°	153.9	160.3	198.8	263.0	352.7	442.5	551.5	628.5	686.3	692.6	718.3
82.5°	96.2	102.6	141.1	185.9	250.1	327.1	404.0	468.2	513.1	519.5	525.9
85°	44.9	57.7	83.3	115.5	166.8	211.7	218.1	185.9	198.8	205.2	192.4
87.5°	12.9	19.3	25.7	19.3	25.7	25.7	32.0	38.5	38.5	38.5	44.9
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°	7214.9	7214.9	7214.9	7214.9	7214.9	7214.9	7214.9	7214.9	7214.9	7214.9	7214.9
2.5°	7330.4	7272.6	7048.2	6964.8	6746.8	6785.3	6669.8	6663.4	6637.8	6631.4	6624.9
5°	7510.0	7330.4	7061.0	6855.8	6734.0	6721.1	6637.8	6637.8	6663.4	6682.7	6637.8
7.5°	7805.0	7599.8	7144.4	6952.0	6843.0	6823.7	6766.0	6721.1	6778.9	6759.6	6708.3
10°	8144.8	7785.7	7304.8	7138.0	6958.4	6913.5	6913.5	6932.8	6836.6	6868.6	6817.3
12.5°	8523.3	8042.2	7510.0	7317.5	7105.9	7080.3	7067.4	6926.3	6977.7	6952.0	6823.7
15°	9004.3	8337.3	7772.9	7445.8	7266.2	7150.8	6984.1	6958.4	6926.3	6862.2	6804.5
17.5°	9523.7	8657.9	7894.7	7484.3	7214.9	7131.6	7003.3	6868.6	6772.4	6785.3	6740.4
20°	9966.3	8952.9	7939.6	7522.7	7176.4	7016.1	6817.3	6734.0	6631.4	6624.9	6618.5
22.5°	10492.1	9350.6	8003.8	7420.1	7061.0	6894.3	6759.6	6612.1	6541.6	6451.7	6496.6
25°	11120.6	9504.5	8016.6	7362.5	6977.7	6682.7	6612.1	6451.7	6426.1	6297.8	6323.5
27.5°	11575.9	9587.8	7914.0	7182.9	6785.3	6560.8	6432.6	6317.1	6272.2	6176.0	6150.3
30°	12185.2	9716.2	7695.9	6958.4	6592.9	6342.7	6265.8	6240.1	6111.9	6009.3	5996.4
32.5°	12877.9	9799.5	7554.9	6727.5	6394.0	6201.6	6240.1	6118.3	5958.0	5868.2	5842.5
35°	13429.4	9831.5	7202.2	6464.6	6259.4	6137.5	6092.6	6067.0	5836.1	5752.7	5688.6
37.5°	14269.6	9761.0	6907.1	6278.6	6111.9	6067.0	6028.5	5855.3	5592.4	5470.5	5380.7
40°	15250.8	9741.8	6528.7	6015.7	5970.8	6022.1	5906.6	5637.3	5271.7	5137.1	5072.9
42.5°	16193.5	9876.5	6291.4	5874.6	5816.9	5836.1	5675.7	5271.7	5092.2	5015.2	4912.5
45°	17771.2	10158.6	5900.2	5656.5	5630.8	5618.0	5425.6	5002.4	4899.8	4803.5	4784.3
47.5°	19195.0	9972.7	5650.1	5432.0	5457.7	5387.2	4976.7	4842.1	4726.6	4630.4	4598.3
50°	19278.3	9530.1	5297.4	5258.9	5265.3	5143.5	4752.2	4662.4	4515.0	4450.8	4405.9
52.5°	18842.2	8805.4	4970.3	4983.1	5002.4	4803.5	4476.5	4412.3	4290.4	4200.7	4175.1
55°	17617.3	7676.7	4649.6	4700.9	4752.2	4373.9	4271.3	4110.9	4014.7	3886.4	3892.8
57.5°	15520.2	6182.4	4200.7	4284.1	4393.1	3976.2	3899.3	3700.5	3559.4	3456.8	3443.9
60°	10402.3	4399.5	3527.3	3559.4	3803.1	3636.3	3629.9	3431.1	3238.7	3149.0	3097.7
62.5°	6137.5	3360.6	3046.3	3014.2	3007.8	3104.0	3264.3	3193.8	2943.7	2770.5	2821.8
65°	3213.0	2905.2	2834.7	2725.7	2661.5	2635.9	2757.7	2789.8	2623.0	2437.0	2424.2
67.5°	2700.0	2700.0	2642.3	2603.8	2514.0	2405.0	2328.1	2225.4	2199.7	2148.4	2084.3
70°	2456.3	2520.4	2501.2	2411.4	2334.4	2212.6	2013.8	1847.0	1686.7	1628.9	1667.5
72.5°	2142.0	2206.2	2206.2	2161.3	2058.7	1872.7	1680.3	1487.9	1353.2	1250.6	1237.8
75°	1648.2	1680.3	1757.3	1706.0	1571.2	1455.9	1257.0	1058.2	929.9	833.8	814.5
77.5°	1051.8	1103.1	1103.1	1096.7	1000.5	891.5	763.2	622.1	525.9	455.3	436.1
80°	699.0	731.1	756.7	731.1	667.0	583.6	487.4	391.2	320.7	263.0	250.1
82.5°	513.1	551.5	570.8	545.1	481.0	416.9	346.3	275.8	205.2	160.3	147.5
85°	198.8	205.2	230.9	275.8	269.4	263.0	211.7	153.9	115.5	83.3	77.0
87.5°	51.3	44.9	51.3	51.3	44.9	38.5	38.5	38.5	38.5	19.3	25.7
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)