

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: P652386

Luminaire Tested: **GALN-SA5B-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19613.8 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

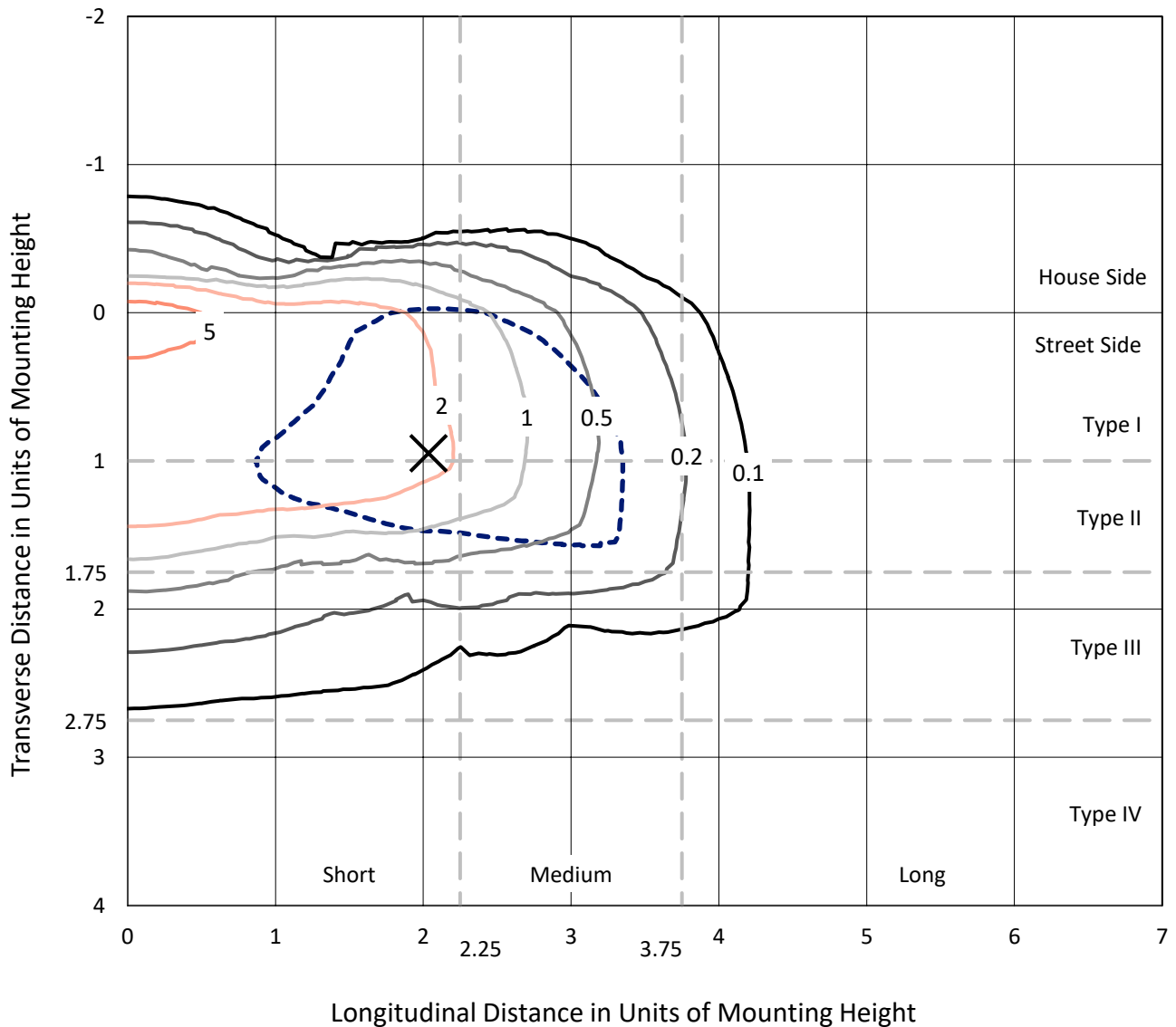
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

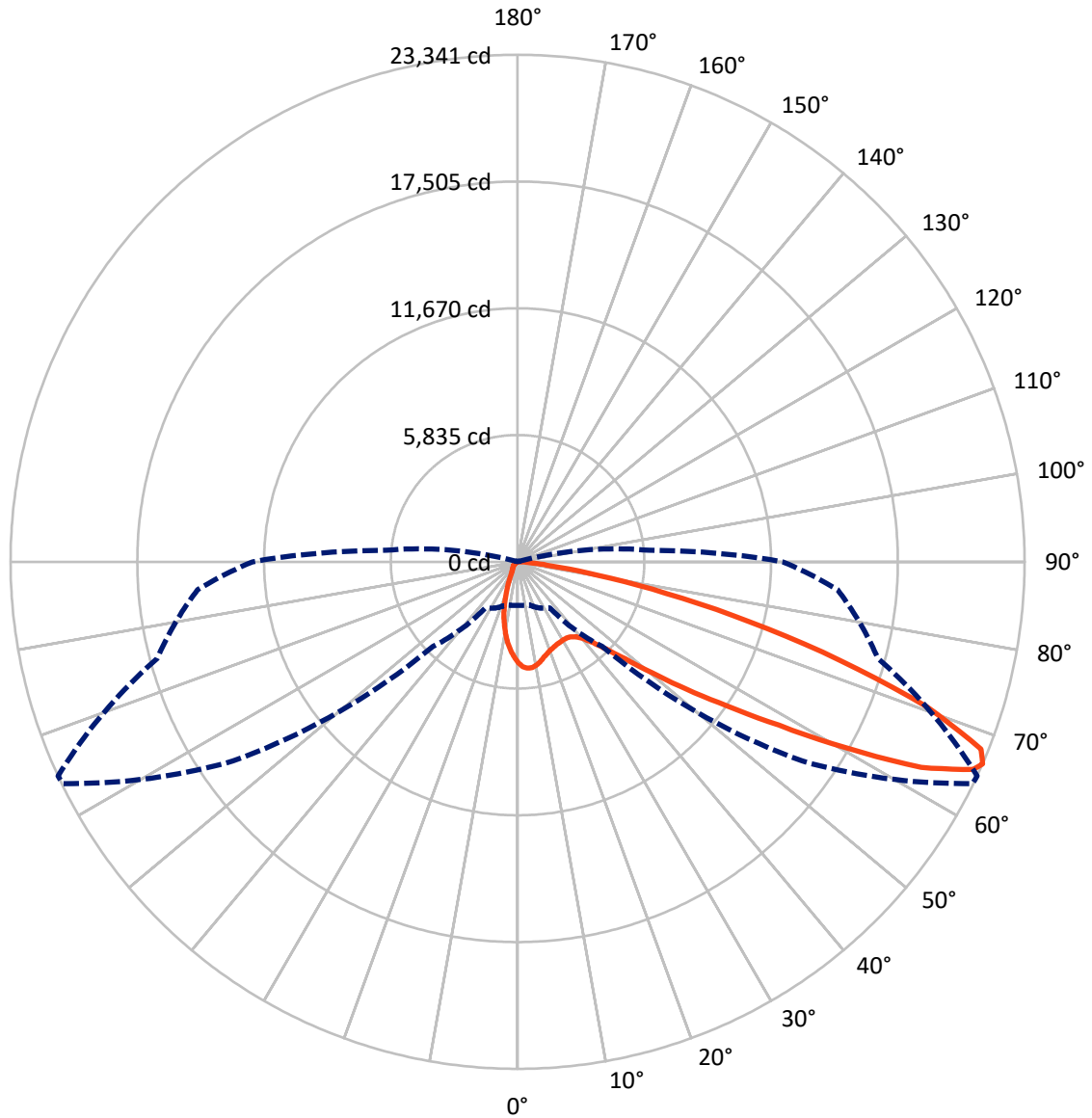
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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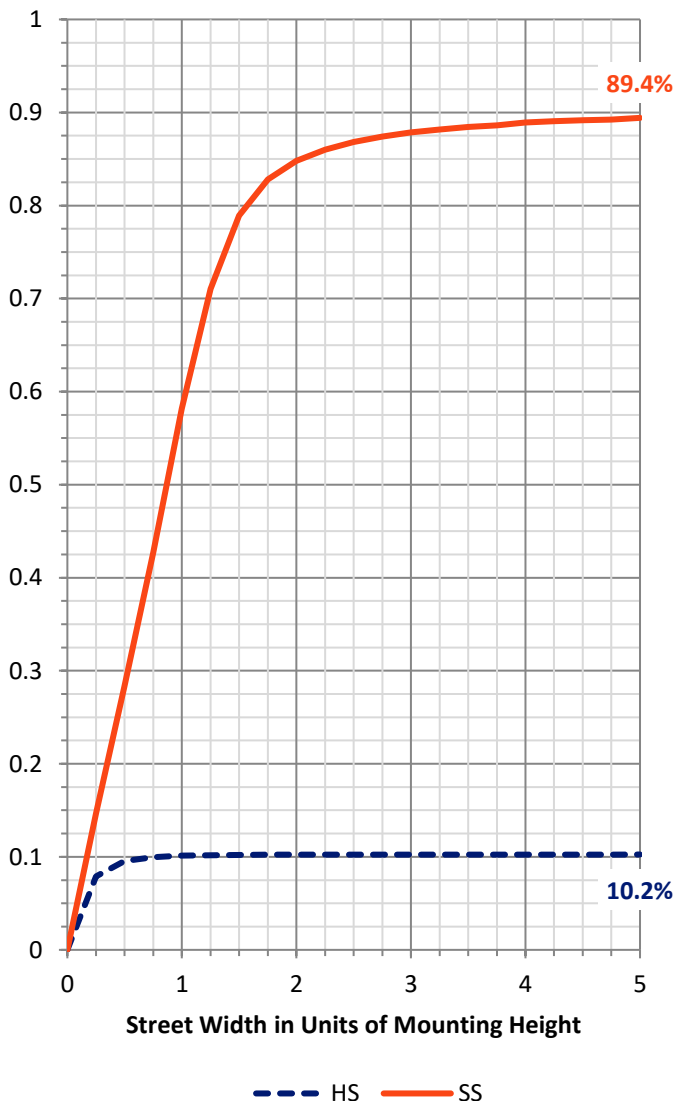
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2028.4	0.0	2028.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	17585.5	0.0	17585.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	19613.8	0.0	19613.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.4	1.9
10°-20°	828.8	4.2
20°-30°	1187.3	6.1
30°-40°	1734.1	8.8
40°-50°	2907.8	14.8
50°-60°	4852.7	24.7
60°-70°	5151.0	26.3
70°-80°	2332.9	11.9
80°-90°	238.7	1.2
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°	19613.8	100.0
0°-180°	19613.8	100.0



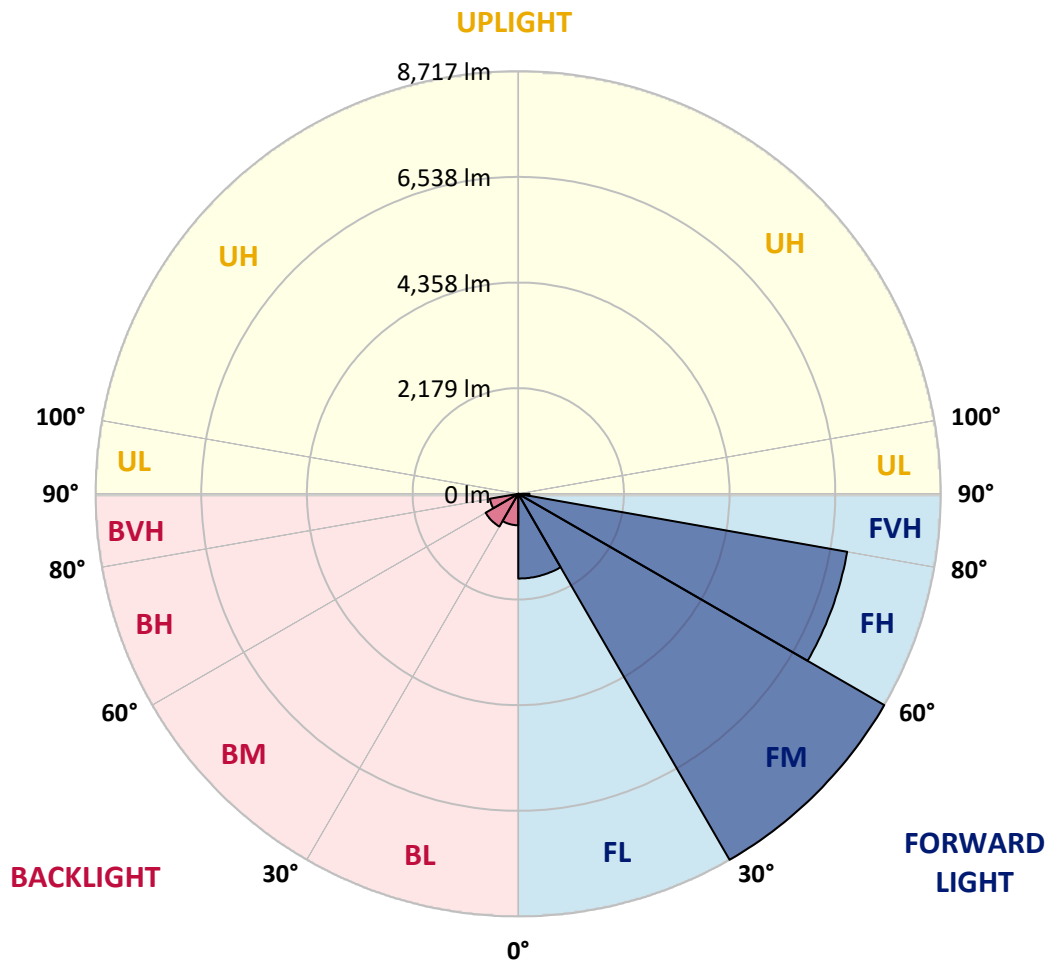
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1747.7	8.9			
FM (30°-60°)	8716.8	44.4			
FH (60°-80°)	6889.9	35.1			G3/7500
FVH (80°-90°)	231.1	1.2			G3/500
BL (0°-30°)	648.8	3.3	B2/1000		
BM (30°-60°)	777.9	4.0	B1/1000		
BH (60°-80°)	594.0	3.0	B2/1000		G2/1000
BVH (80°-90°)	7.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4651.2	4651.2	4651.2	4651.2	4651.2	4651.2	4651.2	4651.2	4651.2	4651.2	4651.2
2.5°	4901.5	4906.8	4913.5	4922.7	4929.4	4909.5	4881.7	4849.9	4843.2	4775.7	4693.5
5°	4639.2	4647.2	4705.5	4737.3	4808.8	4873.7	4914.8	4920.1	4917.4	4853.8	4722.7
7.5°	4265.6	4288.2	4345.1	4400.8	4534.6	4657.8	4803.5	4905.5	4912.1	4894.9	4732.0
10°	3962.3	3976.8	4006.0	4115.9	4227.2	4415.3	4619.4	4811.4	4827.3	4896.2	4724.0
12.5°	3725.1	3746.3	3782.1	3866.9	4000.7	4178.3	4410.0	4668.4	4701.5	4871.1	4701.5
15°	3559.5	3570.1	3606.0	3689.4	3819.2	3983.5	4218.0	4518.7	4547.8	4837.9	4697.5
17.5°	3481.4	3493.3	3518.5	3584.8	3692.1	3844.4	4073.6	4398.1	4435.2	4816.7	4712.1
20°	3502.6	3513.2	3514.5	3548.9	3621.9	3750.4	3967.6	4285.6	4333.3	4803.5	4735.9
22.5°	3623.2	3624.5	3608.6	3592.7	3617.9	3710.6	3902.7	4214.0	4263.0	4800.8	4763.8
25°	3803.3	3807.3	3780.8	3725.1	3674.8	3722.5	3888.1	4167.7	4211.3	4794.2	4781.0
27.5°	4052.4	4051.0	4043.1	3950.3	3807.3	3775.5	3900.1	4142.4	4179.5	4775.7	4787.6
30°	4400.8	4390.2	4372.9	4268.3	4049.8	3904.0	3950.3	4126.5	4161.0	4749.2	4770.4
32.5°	4743.9	4783.6	4781.0	4681.6	4408.7	4133.2	4055.0	4147.7	4173.0	4732.0	4745.2
35°	5144.0	5142.6	5244.6	5207.6	4888.3	4425.9	4233.8	4218.0	4237.8	4743.9	4733.3
37.5°	5514.9	5549.3	5708.3	5746.7	5455.2	4839.3	4486.9	4369.0	4375.6	4824.7	4762.4
40°	5977.2	6043.4	6280.6	6409.1	6152.1	5452.6	4860.5	4645.9	4647.2	5023.4	4872.4
42.5°	6573.3	6678.0	6899.2	7113.9	6976.1	6178.6	5420.8	5084.3	5081.7	5373.1	5124.1
45°	7297.9	7370.9	7622.6	7963.0	7875.5	7192.0	6236.9	5764.0	5729.5	5946.7	5570.5
47.5°	7923.2	8022.6	8278.3	8666.4	9063.9	8429.3	7211.9	6697.9	6675.4	6859.5	6336.3
50°	8196.1	8283.6	8552.5	9097.0	10060.0	10053.4	8663.8	8061.1	8022.6	8122.0	7520.6
52.5°	7896.7	7978.9	8250.5	8928.7	10529.0	12032.6	10767.5	9771.2	9724.9	9597.7	8935.4
55°	6871.4	6939.0	7340.4	8119.4	10348.8	13352.1	13666.0	11884.3	11704.0	11209.9	10537.0
57.5°	5471.2	5436.7	5685.7	6590.6	9291.7	13794.5	16641.4	14516.5	14194.6	12603.6	11892.2
60°	3791.4	3897.4	3998.0	4594.2	6986.7	13027.5	18492.0	17825.7	17401.7	13974.6	13190.4
62.5°	2787.2	2857.5	2923.7	3199.2	4392.8	10401.8	18819.2	21225.0	20848.7	15430.6	14429.0
65°	2204.3	2209.6	2236.1	2507.7	2894.6	6764.1	17246.8	23141.9	23045.2	16832.1	14931.1
66°	2008.3	2009.7	2050.7	2342.1	2597.8	5508.3	15986.9	23287.5	23340.5	17168.6	14784.1
67.5°	1755.3	1750.0	1809.6	2105.0	2366.0	3971.5	13732.3	22696.7	23010.7	17426.9	14255.5
70°	1360.5	1353.8	1426.8	1765.8	2179.2	2649.5	9127.5	19488.2	19994.3	16898.4	12612.8
72.5°	906.1	911.4	1035.9	1393.6	2079.9	2332.8	5491.1	14825.1	15540.5	13954.8	9922.3
75°	528.6	537.8	679.6	1035.9	1805.6	2224.3	3107.8	10571.4	11028.5	9636.2	6181.3
77.5°	276.9	280.8	380.2	683.6	1384.4	2065.2	2070.5	6753.5	6968.1	4682.9	2446.8
80°	147.0	143.1	204.0	412.0	952.5	1813.5	1679.7	3575.4	3717.2	1391.0	618.6
82.5°	55.7	61.0	108.7	270.2	563.0	1302.2	1446.6	1580.4	1531.4	306.0	259.6
85°	10.6	13.3	46.3	160.3	283.5	544.5	1066.4	775.0	718.0	115.2	149.7
87.5°	1.3	2.7	13.3	38.4	41.0	184.2	315.3	214.6	185.4	42.4	62.2
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°	4651.2	4651.2	4651.2	4651.2	4651.2	4651.2	4651.2	4651.2	4651.2	4651.2	4651.2
2.5°	4653.8	4618.0	4498.8	4380.9	4260.3	4151.8	4077.5	3957.0	3926.5	3882.8	3857.7
5°	4644.5	4561.1	4331.9	4081.5	3848.3	3596.7	3404.5	3219.1	3119.8	3069.4	3050.9
7.5°	4618.0	4485.6	4127.9	3735.7	3362.1	2986.0	2658.7	2409.7	2249.4	2139.4	2065.2
10°	4565.0	4382.2	3890.7	3351.6	2787.2	2290.5	1875.9	1560.6	1316.8	1240.0	1242.6
12.5°	4510.7	4267.0	3625.8	2925.0	2225.5	1599.0	1159.2	910.1	793.5	755.1	747.1
15°	4460.4	4157.1	3366.2	2511.7	1657.3	1035.9	747.1	659.7	627.9	621.3	620.0
17.5°	4433.9	4055.0	3089.3	2038.8	1156.5	703.4	598.8	574.9	565.7	559.0	556.4
20°	4411.4	3966.2	2824.3	1596.3	790.9	576.3	536.6	514.0	498.1	491.5	487.5
22.5°	4395.5	3874.8	2550.1	1236.0	605.4	511.3	475.6	446.4	423.9	416.0	410.7
25°	4371.6	3774.2	2273.2	903.5	510.0	454.4	413.4	378.9	349.8	335.1	332.5
27.5°	4337.2	3660.3	1969.9	669.0	455.7	404.0	353.7	311.3	282.2	266.3	267.6
30°	4281.5	3541.0	1666.5	531.3	412.0	352.4	298.1	257.0	229.2	217.2	216.0
32.5°	4215.3	3396.6	1388.3	455.7	372.2	306.0	249.0	213.3	192.1	182.8	181.5
35°	4153.0	3250.9	1104.8	409.3	331.2	263.7	209.3	178.9	162.9	155.0	156.3
37.5°	4118.6	3121.1	861.1	372.2	298.1	226.6	180.1	153.7	139.1	132.5	131.1
40°	4141.2	3015.1	684.9	339.1	261.0	194.8	155.0	132.5	117.9	108.7	108.7
42.5°	4247.1	2968.7	552.5	307.3	226.6	168.2	135.1	114.0	98.1	88.7	90.1
45°	4570.3	3017.8	462.3	278.2	194.8	145.7	116.6	94.0	79.5	72.8	71.6
47.5°	5106.9	3201.9	400.1	247.8	166.9	124.6	98.1	78.1	63.6	58.3	56.9
50°	6044.8	3582.1	353.7	217.2	141.7	106.0	80.8	62.2	50.4	45.1	45.1
52.5°	7335.0	4411.4	320.6	182.8	119.3	90.1	66.3	50.4	39.8	35.7	34.5
55°	8683.7	5285.7	303.3	153.7	99.3	74.2	53.0	39.8	30.4	26.5	25.1
57.5°	9980.6	5971.9	283.5	124.6	79.5	56.9	41.0	30.4	21.2	18.6	17.2
60°	11224.5	6527.0	241.1	99.3	62.2	41.0	30.4	21.2	14.5	11.9	11.9
62.5°	12337.3	6850.2	189.5	79.5	47.7	29.2	19.8	15.9	10.6	8.0	8.0
65°	12467.2	6430.3	143.1	61.0	34.5	18.6	11.9	11.9	8.0	5.3	5.3
66°	12206.1	6074.0	125.8	55.7	30.4	15.9	10.6	9.3	6.6	4.0	4.0
67.5°	11623.3	5465.9	108.7	47.7	25.1	11.9	8.0	8.0	5.3	2.7	2.7
70°	10042.8	4464.4	86.1	35.7	18.6	9.3	5.3	5.3	4.0	2.7	2.7
72.5°	7654.4	3333.1	70.2	26.5	13.3	6.6	4.0	4.0	4.0	2.7	2.7
75°	4616.8	1795.0	54.3	19.8	11.9	5.3	2.7	4.0	5.3	4.0	2.7
77.5°	1700.9	610.7	42.4	15.9	9.3	5.3	2.7	2.7	5.3	4.0	4.0
80°	417.3	158.9	30.4	13.3	9.3	5.3	2.7	2.7	5.3	5.3	5.3
82.5°	193.4	67.5	21.2	11.9	9.3	5.3	2.7	2.7	4.0	5.3	5.3
85°	111.3	31.8	17.2	13.3	9.3	5.3	2.7	2.7	4.0	5.3	5.3
87.5°	45.1	15.9	15.9	13.3	10.6	6.6	2.7	2.7	2.7	4.0	4.0
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)