

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: P651085

Luminaire Tested: **GALN-SA8C-840-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35692 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

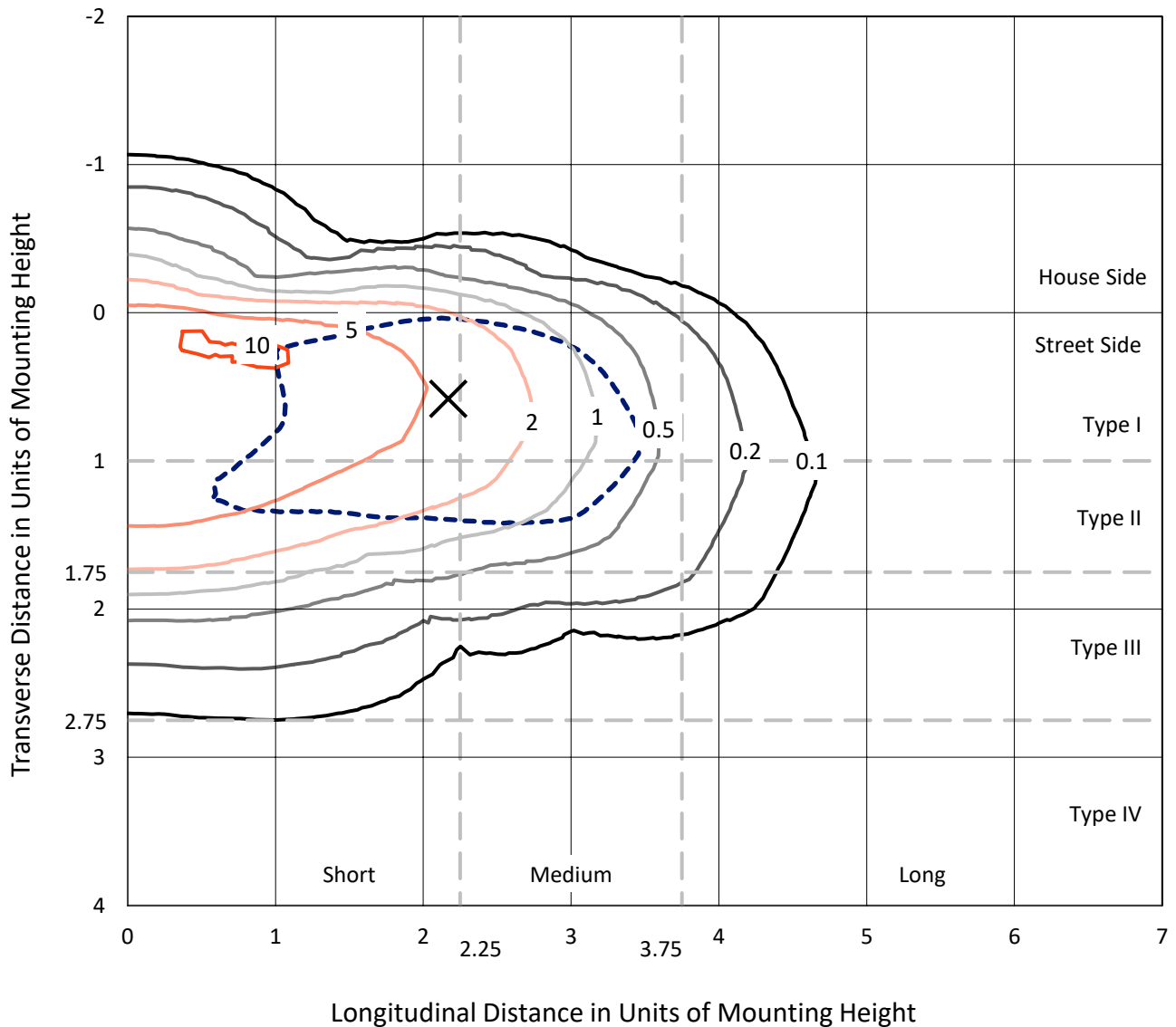
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

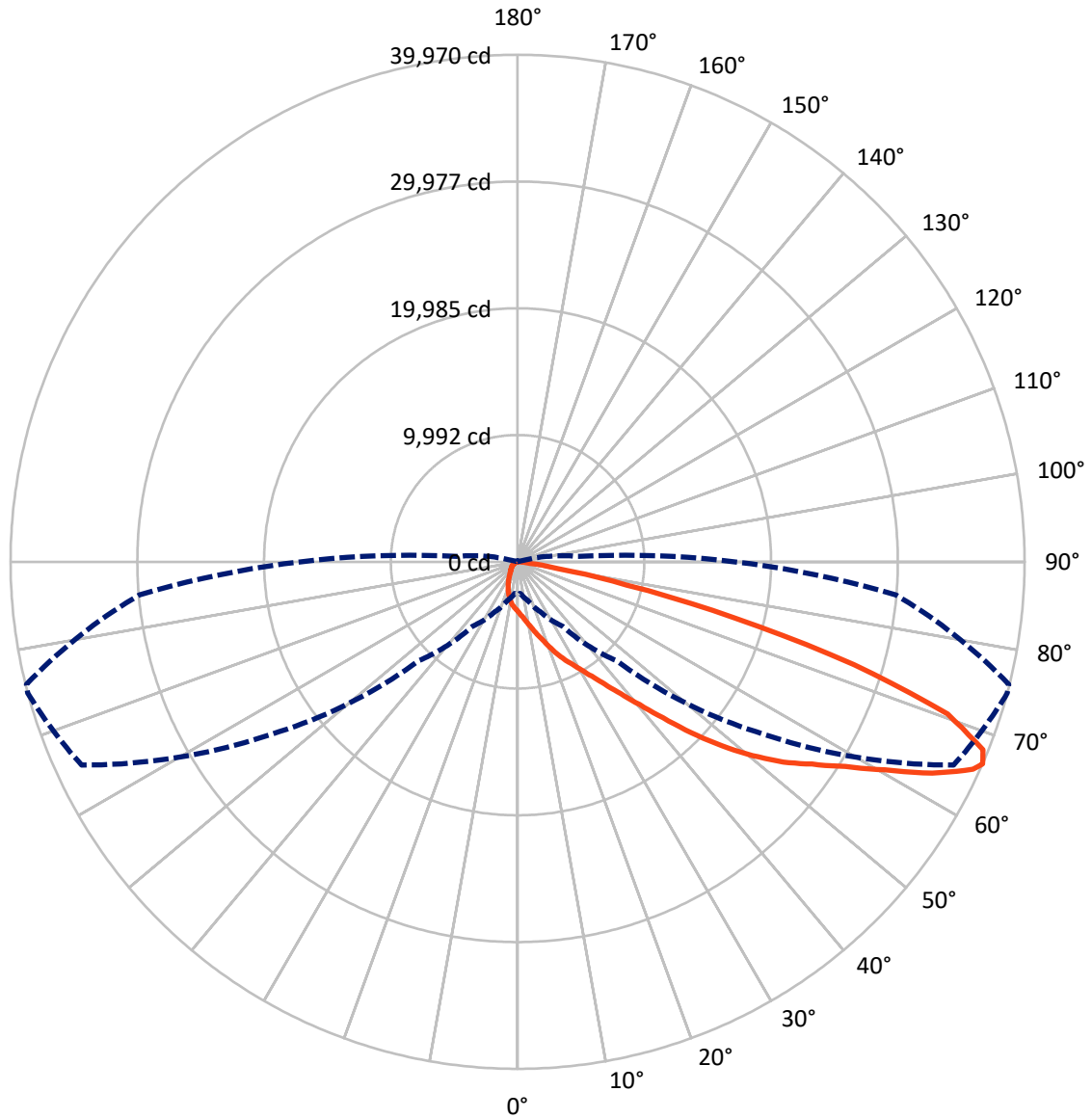
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

REPORT NUMBER: P651085
CATALOG NUMBER: GALN-SA8C-840-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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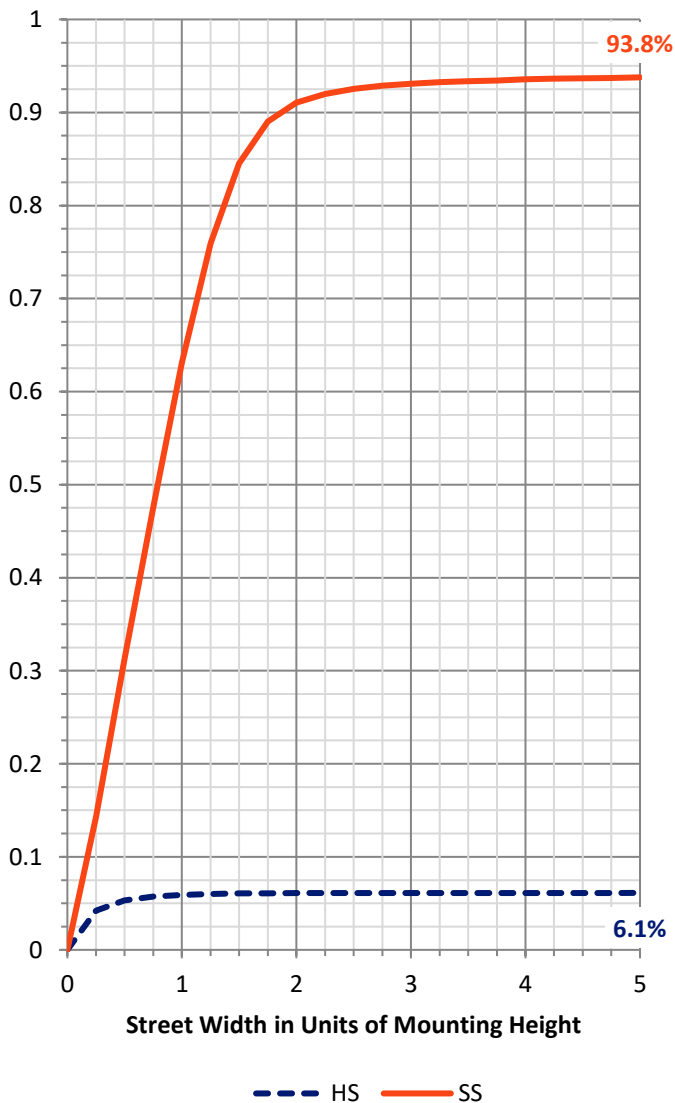
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2203.5	0.0	2203.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	33488.6	0.0	33488.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	35692.0	0.0	35692.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.5	1.1
10°-20°	1108.0	3.1
20°-30°	1913.3	5.4
30°-40°	3451.1	9.7
40°-50°	6234.5	17.5
50°-60°	9719.7	27.2
60°-70°	9233.3	25.9
70°-80°	3460.4	9.7
80°-90°	195.2	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°	35692.0	100.0
0°-180°	35692.0	100.0

Coefficient of Utilization

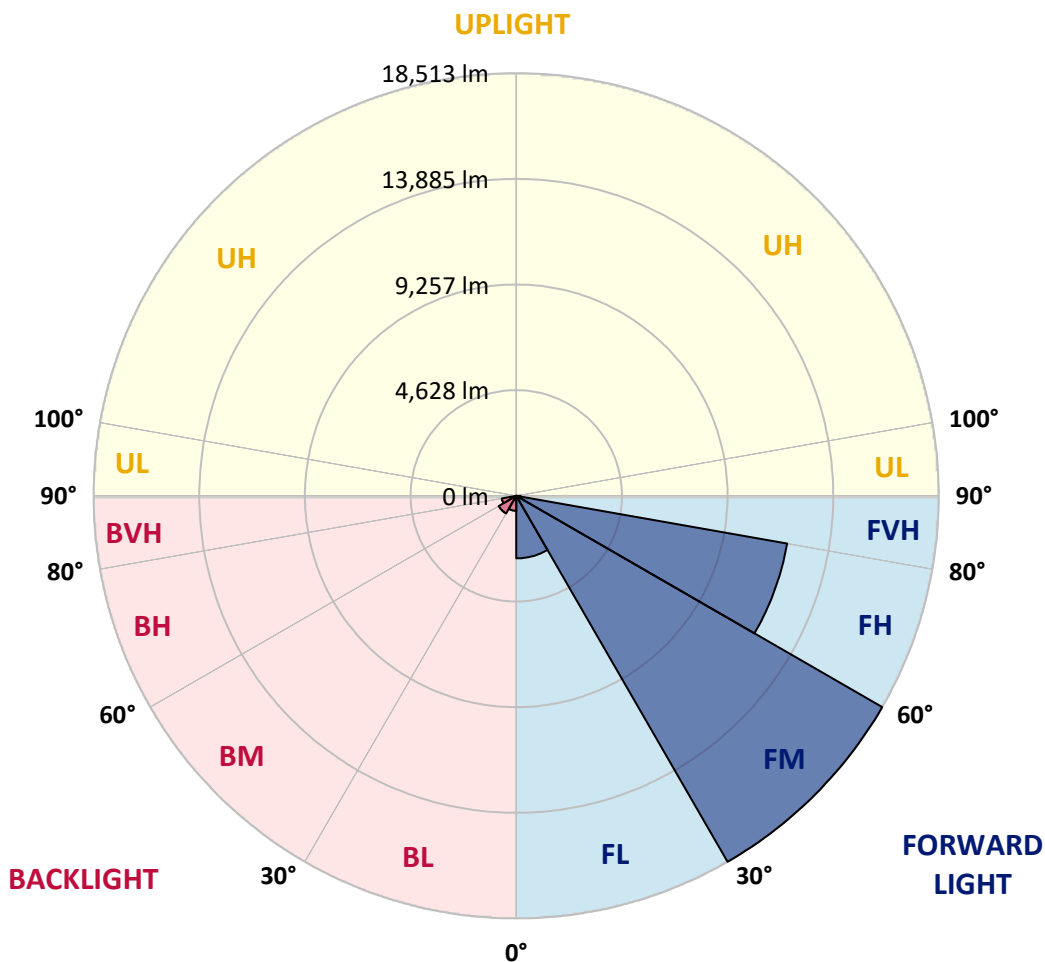


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2739.7	7.7			
FM (30°-60°)	18513.4	51.9			
FH (60°-80°)	12050.3	33.8			G5
FVH (80°-90°)	185.2	0.5			G2/225
BL (0°-30°)	658.1	1.8	B2/1000		
BM (30°-60°)	891.9	2.5	B1/1000		
BH (60°-80°)	643.4	1.8	B2/1000		G2/1000
BVH (80°-90°)	10.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3903.2	3903.2	3903.2	3903.2	3903.2	3903.2	3903.2	3903.2	3903.2	3903.2	3903.2
2.5°	4663.3	4605.3	4623.7	4597.4	4536.7	4447.0	4367.7	4254.3	4140.8	4122.3	3995.7
5°	5278.3	5262.4	5241.3	5164.7	5122.5	4985.3	4821.7	4626.4	4391.5	4349.3	4119.7
7.5°	5697.9	5690.0	5700.6	5660.9	5624.0	5500.0	5325.8	5059.2	4695.1	4671.3	4288.6
10°	5835.1	5856.2	5895.8	5959.2	6017.2	5977.7	5845.7	5513.2	5088.2	5019.6	4481.3
12.5°	5756.0	5779.7	5874.7	6043.6	6231.0	6339.2	6286.4	6043.6	5505.3	5449.8	4697.7
15°	5552.7	5581.8	5716.4	5977.7	6312.8	6618.9	6750.9	6576.7	5990.9	5901.1	4959.0
17.5°	5251.9	5294.1	5486.8	5832.5	6291.7	6819.5	7191.6	7133.6	6508.1	6423.6	5244.0
20°	5024.9	5056.6	5220.2	5616.1	6202.0	6930.3	7611.2	7774.9	7146.7	7001.6	5579.1
22.5°	5175.3	5185.9	5241.3	5478.9	6041.0	6959.4	7980.8	8442.5	7825.0	7695.7	5927.5
25°	5911.6	5806.1	5750.7	5697.9	6006.7	6933.0	8315.9	9139.3	8500.7	8363.4	6273.2
27.5°	7072.9	7025.4	6745.7	6370.8	6299.6	6967.3	8537.6	9799.1	9136.7	8988.9	6611.0
30°	8337.0	8255.2	8083.7	7534.7	6983.2	7210.1	8698.5	10440.4	9888.8	9693.5	6919.8
32.5°	9498.3	9551.0	9295.0	8730.3	8091.6	7727.4	8907.1	11139.8	10751.8	10509.1	7278.7
35°	10852.1	10957.6	10564.5	10023.5	9276.6	8661.6	9313.5	11928.9	11847.1	11541.0	7832.9
37.5°	12227.1	12290.5	12050.3	11290.2	10617.2	9849.2	10078.9	12902.7	13195.6	12934.4	8495.4
40°	13383.0	13470.1	13293.4	12617.7	11899.8	11224.2	11189.9	13963.6	14800.3	14531.1	9482.4
42.5°	14267.1	14333.2	14338.4	13860.7	13214.1	12908.0	12607.2	15317.6	16811.3	16499.8	10627.8
45°	15383.5	15478.5	15423.1	15098.5	14615.5	14560.1	14404.4	16953.8	19218.2	18824.9	12113.6
47.5°	17109.5	17172.8	17035.6	16652.9	16162.1	16249.1	16156.8	18788.0	21672.6	21334.7	13652.2
50°	18307.6	18413.2	18608.6	18761.6	18405.3	18083.4	17808.8	20500.8	24002.9	23699.4	15225.1
52.5°	18294.4	18468.6	19086.2	19856.9	20635.4	20537.7	19748.6	22393.1	26227.7	25852.9	16703.1
55°	17062.0	17399.8	18307.6	19674.8	21830.9	22905.1	22546.1	24583.5	28149.0	27895.6	18415.9
57.5°	14517.8	14723.7	15985.2	17896.0	21163.2	24018.7	25787.0	27552.5	30452.9	30334.2	21076.1
60°	9764.8	9857.2	11480.2	13842.3	18017.3	22907.7	28162.1	31144.4	33290.1	33231.9	24182.4
62.5°	5594.9	5634.5	6811.6	8804.2	12820.9	19413.5	28362.7	35575.5	36691.9	36723.5	27776.9
65°	3011.3	3032.4	3982.5	5167.4	7801.3	13837.0	25504.6	38003.5	39441.8	39502.5	30004.3
66°	2599.5	2499.3	3169.6	4404.7	6207.3	11013.1	23696.8	37916.4	39969.7	39903.7	29925.1
67.5°	1976.7	2066.4	2530.9	3386.0	4600.0	7830.3	19563.9	36230.0	39568.5	39362.7	28708.5
70°	1414.6	1451.5	1802.5	2414.8	3132.6	4296.5	12501.5	30091.4	35963.4	35686.3	25011.1
72.5°	913.2	952.8	1277.3	1747.1	2264.4	2346.2	6999.0	21741.2	27726.8	27687.1	18835.5
75°	651.9	688.8	844.5	1251.0	1702.3	1451.5	3370.1	14652.5	17626.8	17508.0	11651.8
77.5°	472.4	490.9	564.8	818.1	1216.7	1039.8	1562.3	7825.0	8775.1	9189.4	5148.9
80°	271.8	287.7	393.3	498.8	823.4	709.9	746.9	3140.5	3238.2	3082.5	1609.8
82.5°	134.6	153.1	234.9	340.4	514.6	477.7	343.1	944.8	997.6	971.2	406.5
85°	31.7	39.6	132.0	224.3	250.7	213.8	166.3	277.1	343.1	335.1	155.7
87.5°	2.6	5.3	47.5	39.6	42.2	71.2	58.0	71.2	110.8	102.9	55.4
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°	3903.2	3903.2	3903.2	3903.2	3903.2	3903.2	3903.2	3903.2	3903.2	3903.2	3903.2
2.5°	3937.6	3887.4	3742.3	3599.8	3481.0	3356.9	3243.5	3177.6	3151.1	3122.1	3135.2
5°	3993.0	3871.6	3578.6	3325.3	3077.2	2866.1	2697.2	2589.0	2536.2	2528.3	2515.1
7.5°	4066.9	3858.4	3404.5	3008.6	2684.0	2449.1	2256.5	2100.7	2053.2	2011.0	1976.7
10°	4156.6	3834.6	3188.1	2676.1	2330.3	2034.8	1781.4	1596.6	1501.7	1475.3	1493.8
12.5°	4251.7	3789.8	2961.1	2369.9	1971.5	1594.0	1359.1	1266.8	1240.4	1229.8	1232.5
15°	4346.6	3734.4	2723.6	2074.3	1570.3	1272.1	1163.9	1140.1	1129.5	1124.2	1119.0
17.5°	4433.8	3644.6	2457.1	1786.7	1272.1	1087.3	1047.7	1026.6	1005.5	997.6	984.4
20°	4536.7	3541.7	2216.9	1464.7	1076.7	984.4	936.9	897.3	865.6	844.5	841.9
22.5°	4634.3	3409.8	1966.2	1214.0	981.8	884.1	807.6	765.3	728.4	702.0	709.9
25°	4687.1	3248.8	1741.8	1058.3	894.7	783.8	699.4	646.6	607.0	593.8	591.1
27.5°	4687.1	3050.8	1522.8	968.6	815.5	694.1	607.0	556.8	530.5	512.0	514.6
30°	4650.1	2831.8	1319.5	900.0	746.9	614.9	533.1	488.2	467.1	454.0	451.3
32.5°	4621.1	2623.3	1145.4	833.9	675.7	546.3	475.1	440.8	419.7	406.5	406.5
35°	4666.0	2443.9	1010.8	768.0	609.6	493.5	430.2	398.5	377.4	366.8	364.2
37.5°	4784.8	2280.2	907.9	696.8	548.9	448.7	398.5	361.5	340.4	327.2	321.9
40°	5077.7	2187.9	831.3	630.8	490.9	411.7	361.5	327.2	300.8	287.7	285.0
42.5°	5547.5	2190.5	757.4	570.0	446.0	380.0	329.9	290.3	261.3	248.1	245.4
45°	6254.8	2290.8	699.4	512.0	406.5	345.7	295.6	253.4	227.0	213.8	213.8
47.5°	7101.9	2486.1	649.3	461.9	369.5	314.0	261.3	219.1	192.7	182.1	182.1
50°	8020.4	2739.4	599.0	409.1	337.8	279.7	224.3	190.0	168.9	161.0	161.0
52.5°	8957.2	3045.6	548.9	366.8	303.5	242.8	192.7	168.9	150.5	145.2	142.5
55°	10187.0	3436.2	496.2	321.9	266.5	208.5	171.6	147.8	126.7	118.7	116.1
57.5°	12079.3	4024.7	438.1	282.4	219.1	174.2	147.8	124.0	100.2	87.1	84.4
60°	14362.2	4742.5	377.4	248.1	176.9	142.5	118.7	95.0	73.9	58.0	55.4
62.5°	16499.8	5199.1	319.3	208.5	139.9	108.2	84.4	71.2	52.8	36.9	34.3
65°	17444.7	5046.0	263.9	168.9	110.8	76.5	55.4	50.1	31.7	15.8	13.2
66°	17130.6	4819.1	242.8	153.1	100.2	66.0	47.5	42.2	23.7	7.9	7.9
67.5°	16204.3	4283.3	211.1	132.0	87.1	52.8	36.9	31.7	13.2	2.6	0.0
70°	13884.5	3465.2	166.3	97.6	63.3	36.9	21.1	15.8	7.9	0.0	0.0
72.5°	10664.7	2581.1	132.0	73.9	44.8	21.1	10.6	5.3	7.9	0.0	0.0
75°	6534.5	1475.3	102.9	55.4	29.0	13.2	7.9	0.0	7.9	2.6	0.0
77.5°	2900.4	662.5	68.6	36.9	21.1	10.6	5.3	0.0	5.3	2.6	0.0
80°	733.7	216.4	39.6	26.4	15.8	7.9	2.6	0.0	5.3	5.3	2.6
82.5°	200.6	79.1	29.0	21.1	13.2	7.9	2.6	0.0	5.3	5.3	5.3
85°	79.1	36.9	26.4	21.1	15.8	7.9	2.6	0.0	5.3	5.3	5.3
87.5°	36.9	26.4	26.4	23.7	18.5	7.9	2.6	0.0	5.3	2.6	5.3
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)