

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: P647015

Luminaire Tested: **GALN-SA6C-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647015
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-SA6C-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 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: 24403 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

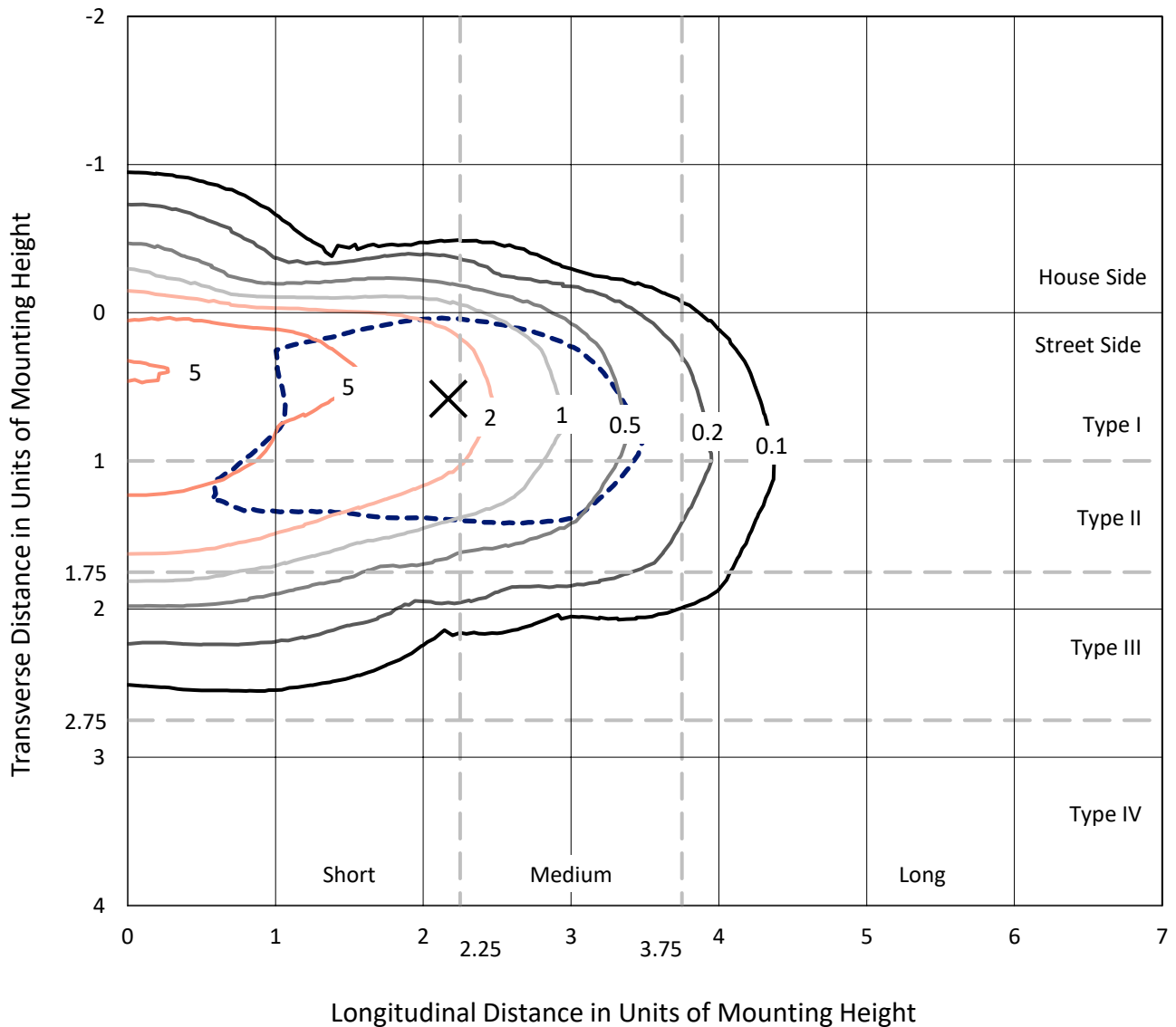
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

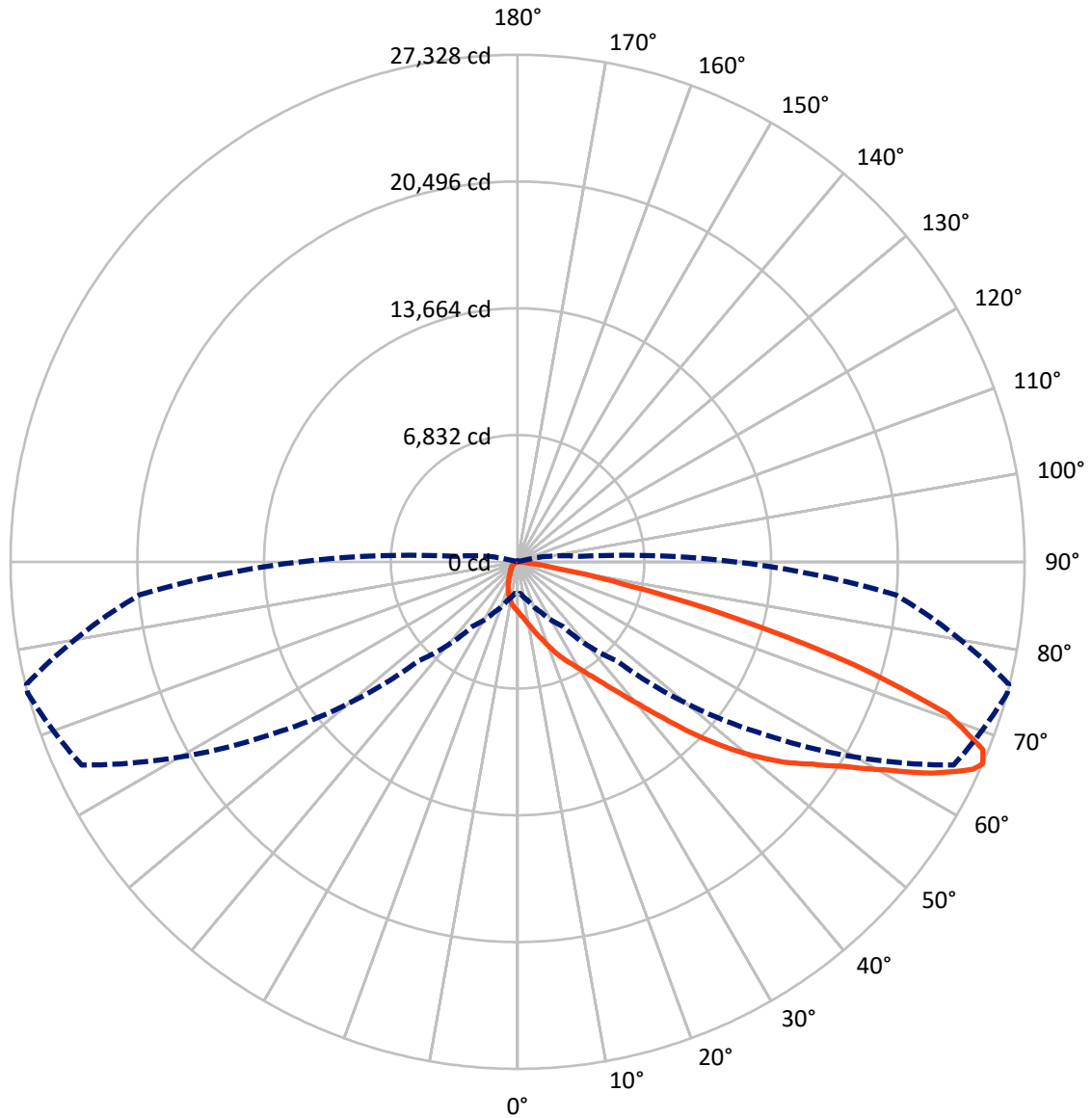
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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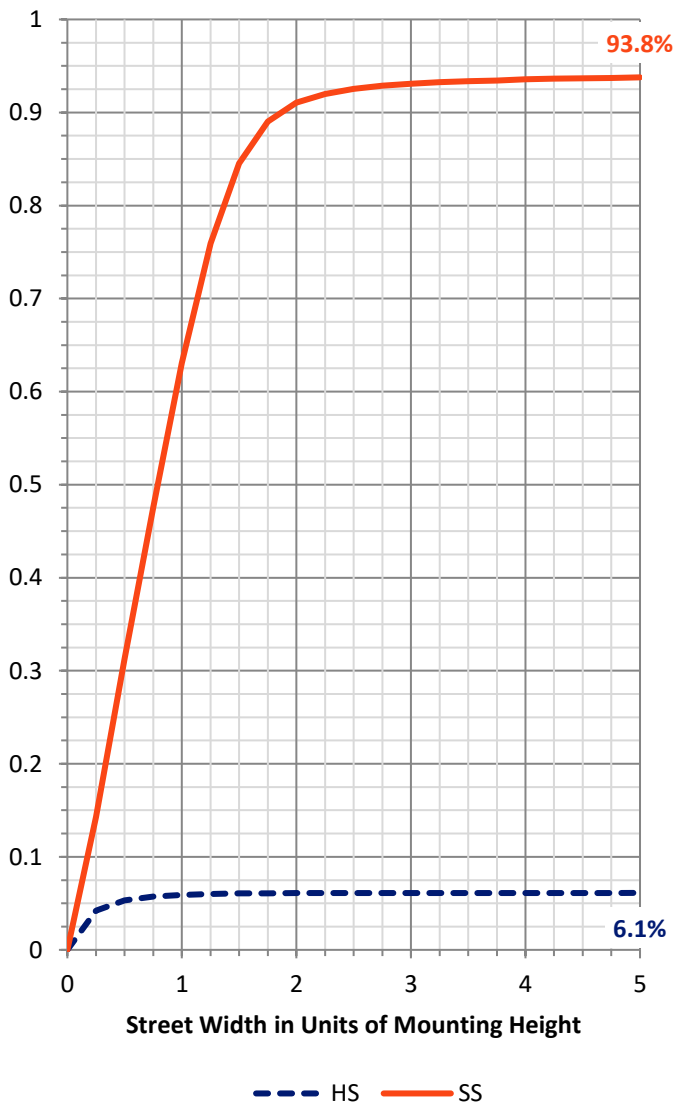
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1506.5	0.0	1506.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	22896.5	0.0	22896.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	24403.0	0.0	24403.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.4	1.1
10°-20°	757.5	3.1
20°-30°	1308.1	5.4
30°-40°	2359.6	9.7
40°-50°	4262.6	17.5
50°-60°	6645.4	27.2
60°-70°	6312.9	25.9
70°-80°	2365.9	9.7
80°-90°	133.5	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°	24403.0	100.0
0°-180°	24403.0	100.0

Coefficient of Utilization

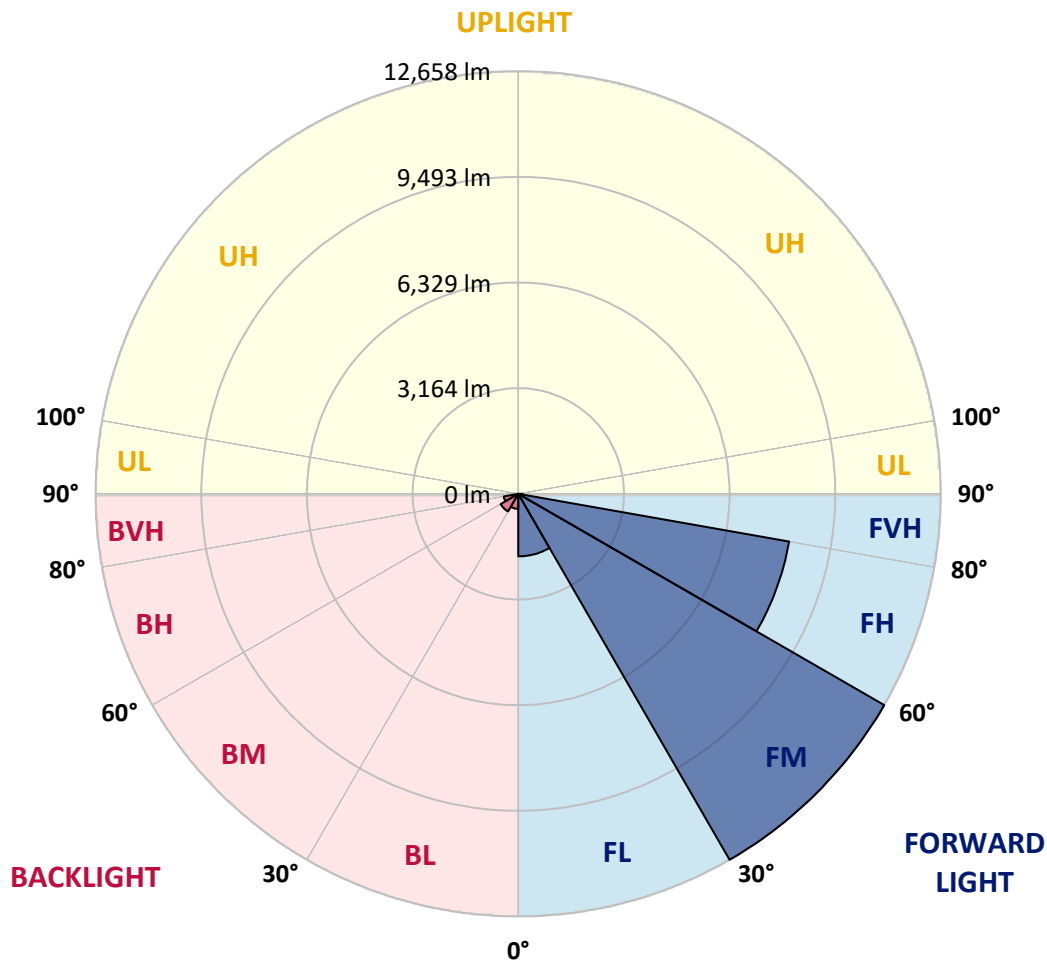


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1873.1	7.7			
FM (30°-60°)	12657.8	51.9			
FH (60°-80°)	8238.9	33.8			G4/12000
FVH (80°-90°)	126.6	0.5			G2/225
BL (0°-30°)	449.9	1.8	B1/500		
BM (30°-60°)	609.8	2.5	B1/1000		
BH (60°-80°)	439.9	1.8	B1/500		G1/500
BVH (80°-90°)	6.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7
2.5°	3188.4	3148.7	3161.3	3143.3	3101.8	3040.4	2986.3	2908.7	2831.1	2818.5	2731.9
5°	3608.8	3598.0	3583.6	3531.2	3502.4	3408.5	3296.7	3163.1	3002.5	2973.7	2816.7
7.5°	3895.7	3890.3	3897.5	3870.4	3845.2	3760.4	3641.3	3459.1	3210.1	3193.8	2932.2
10°	3989.5	4003.9	4031.0	4074.3	4114.0	4086.9	3996.7	3769.4	3478.9	3432.0	3063.9
12.5°	3935.4	3951.6	4016.6	4132.0	4260.2	4334.1	4298.0	4132.0	3764.0	3726.1	3211.9
15°	3796.5	3816.3	3908.3	4086.9	4316.1	4525.4	4615.6	4496.5	4096.0	4034.6	3390.5
17.5°	3590.8	3619.7	3751.4	3987.7	4301.7	4662.5	4917.0	4877.3	4449.6	4391.9	3585.4
20°	3435.6	3457.3	3569.1	3839.8	4240.3	4738.3	5203.9	5315.8	4886.3	4787.1	3814.5
22.5°	3538.5	3545.7	3583.6	3746.0	4130.2	4758.2	5456.5	5772.3	5350.1	5261.6	4052.7
25°	4041.8	3969.7	3931.8	3895.7	4106.8	4740.1	5685.7	6248.7	5812.0	5718.2	4289.0
27.5°	4835.8	4803.3	4612.0	4355.8	4307.1	4763.6	5837.3	6699.7	6246.9	6145.8	4520.0
30°	5700.1	5644.2	5526.9	5151.6	4774.4	4929.6	5947.3	7138.2	6761.0	6627.5	4731.1
32.5°	6494.0	6530.1	6355.1	5969.0	5532.3	5283.3	6089.9	7616.4	7351.1	7185.1	4976.5
35°	7419.7	7491.9	7223.0	6853.1	6342.5	5922.1	6367.7	8155.9	8100.0	7890.6	5355.5
37.5°	8359.8	8403.1	8238.9	7719.2	7259.1	6734.0	6891.0	8821.7	9022.0	8843.4	5808.4
40°	9150.1	9209.6	9088.8	8626.9	8136.1	7674.1	7650.7	9547.0	10119.1	9935.0	6483.2
42.5°	9754.6	9799.7	9803.3	9476.7	9034.6	8825.3	8619.7	10472.7	11494.0	11281.1	7266.3
45°	10517.9	10582.8	10544.9	10323.0	9992.8	9954.9	9848.4	11591.5	13139.6	12870.8	8282.2
47.5°	11697.9	11741.2	11647.4	11385.8	11050.2	11109.7	11046.6	12845.5	14817.7	14586.7	9334.1
50°	12517.1	12589.3	12722.8	12827.5	12583.9	12363.7	12176.1	14016.6	16411.0	16203.5	10409.6
52.5°	12508.1	12627.2	13049.4	13576.3	14108.6	14041.9	13502.3	15310.3	17932.1	17675.9	11420.1
55°	11665.4	11896.4	12517.1	13451.8	14926.0	15660.4	15415.0	16808.0	19245.7	19072.5	12591.1
57.5°	9926.0	10066.7	10929.3	12235.6	14469.4	16421.9	17630.8	18838.0	20821.0	20739.8	14409.9
60°	6676.2	6739.4	7849.1	9464.0	12318.6	15662.2	19254.8	21293.7	22760.7	22721.0	16533.7
62.5°	3825.3	3852.4	4657.1	6019.5	8765.8	13273.2	19391.9	24323.3	25086.5	25108.2	18991.3
65°	2058.8	2073.2	2722.8	3533.1	5333.8	9460.4	17437.7	25983.4	26966.8	27008.3	20514.2
66°	1777.3	1708.7	2167.1	3011.6	4243.9	7529.8	16201.7	25923.8	27327.6	27282.5	20460.1
67.5°	1351.5	1412.8	1730.4	2315.0	3145.1	5353.7	13376.0	24770.8	27053.4	26912.6	19628.2
70°	967.2	992.5	1232.4	1651.0	2141.8	2937.6	8547.5	20573.8	24588.5	24399.1	17100.3
72.5°	624.3	651.4	873.4	1194.5	1548.1	1604.1	4785.3	14864.6	18957.1	18930.0	12878.0
75°	445.7	471.0	577.4	855.3	1163.9	992.5	2304.2	10018.0	12051.6	11970.3	7966.4
77.5°	323.0	335.6	386.2	559.4	831.9	711.0	1068.2	5350.1	5999.7	6282.9	3520.4
80°	185.9	196.7	268.9	341.0	563.0	485.4	510.7	2147.2	2214.0	2107.5	1100.7
82.5°	92.0	104.7	160.6	232.8	351.9	326.6	234.6	646.0	682.1	664.0	277.9
85°	21.7	27.1	90.2	153.4	171.4	146.2	113.7	189.5	234.6	229.2	106.5
87.5°	1.8	3.6	32.5	27.1	28.9	48.7	39.7	48.7	75.8	70.4	37.9
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°	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7	2668.7
2.5°	2692.2	2657.9	2558.6	2461.2	2380.0	2295.2	2217.6	2172.5	2154.4	2134.6	2143.6
5°	2730.1	2647.1	2446.8	2273.5	2103.9	1959.6	1844.1	1770.1	1734.0	1728.6	1719.6
7.5°	2780.6	2638.0	2327.7	2057.0	1835.0	1674.4	1542.7	1436.3	1403.8	1374.9	1351.5
10°	2841.9	2621.8	2179.7	1829.6	1593.2	1391.2	1218.0	1091.7	1026.7	1008.7	1021.3
12.5°	2906.9	2591.1	2024.5	1620.3	1347.9	1089.9	929.3	866.1	848.1	840.9	842.7
15°	2971.9	2553.2	1862.1	1418.2	1073.6	869.8	795.8	779.5	772.3	768.7	765.1
17.5°	3031.4	2491.9	1679.9	1221.6	869.8	743.4	716.4	701.9	687.5	682.1	673.1
20°	3101.8	2421.5	1515.7	1001.5	736.2	673.1	640.6	613.5	591.9	577.4	575.6
22.5°	3168.5	2331.3	1344.3	830.1	671.3	604.5	552.2	523.3	498.0	480.0	485.4
25°	3204.6	2221.2	1190.9	723.6	611.7	535.9	478.2	442.1	415.0	406.0	404.2
27.5°	3204.6	2085.9	1041.2	662.2	557.6	474.6	415.0	380.7	362.7	350.1	351.9
30°	3179.4	1936.1	902.2	615.3	510.7	420.4	364.5	333.8	319.4	310.4	308.6
32.5°	3159.5	1793.5	783.1	570.2	461.9	373.5	324.8	301.3	286.9	277.9	277.9
35°	3190.2	1670.8	691.1	525.1	416.8	337.4	294.1	272.5	258.0	250.8	249.0
37.5°	3271.4	1559.0	620.7	476.4	375.3	306.8	272.5	247.2	232.8	223.8	220.1
40°	3471.7	1495.8	568.4	431.3	335.6	281.5	247.2	223.8	205.7	196.7	194.9
42.5°	3792.9	1497.6	517.9	389.8	305.0	259.8	225.6	198.5	178.6	169.6	167.8
45°	4276.4	1566.2	478.2	350.1	277.9	236.4	202.1	173.2	155.2	146.2	146.2
47.5°	4855.6	1699.7	443.9	315.8	252.6	214.7	178.6	149.8	131.7	124.5	124.5
50°	5483.6	1872.9	409.6	279.7	231.0	191.3	153.4	129.9	115.5	110.1	110.1
52.5°	6124.2	2082.3	375.3	250.8	207.5	166.0	131.7	115.5	102.9	99.2	97.4
55°	6965.0	2349.3	339.2	220.1	182.3	142.6	117.3	101.1	86.6	81.2	79.4
57.5°	8258.8	2751.7	299.5	193.1	149.8	119.1	101.1	84.8	68.6	59.5	57.7
60°	9819.5	3242.5	258.0	169.6	120.9	97.4	81.2	65.0	50.5	39.7	37.9
62.5°	11281.1	3554.7	218.3	142.6	95.6	74.0	57.7	48.7	36.1	25.3	23.5
65°	11927.0	3450.0	180.4	115.5	75.8	52.3	37.9	34.3	21.7	10.8	9.0
66°	11712.3	3294.9	166.0	104.7	68.6	45.1	32.5	28.9	16.2	5.4	5.4
67.5°	11079.0	2928.6	144.4	90.2	59.5	36.1	25.3	21.7	9.0	1.8	0.0
70°	9492.9	2369.2	113.7	66.8	43.3	25.3	14.4	10.8	5.4	0.0	0.0
72.5°	7291.6	1764.7	90.2	50.5	30.7	14.4	7.2	3.6	5.4	0.0	0.0
75°	4467.7	1008.7	70.4	37.9	19.8	9.0	5.4	0.0	5.4	1.8	0.0
77.5°	1983.0	452.9	46.9	25.3	14.4	7.2	3.6	0.0	3.6	1.8	0.0
80°	501.6	148.0	27.1	18.0	10.8	5.4	1.8	0.0	3.6	3.6	1.8
82.5°	137.1	54.1	19.8	14.4	9.0	5.4	1.8	0.0	3.6	3.6	3.6
85°	54.1	25.3	18.0	14.4	10.8	5.4	1.8	0.0	3.6	3.6	3.6
87.5°	25.3	18.0	18.0	16.2	12.6	5.4	1.8	0.0	3.6	1.8	3.6
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)