

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: P647679

Luminaire Tested: **GALN-SA9D-835-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647679  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-835-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 55962.6 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

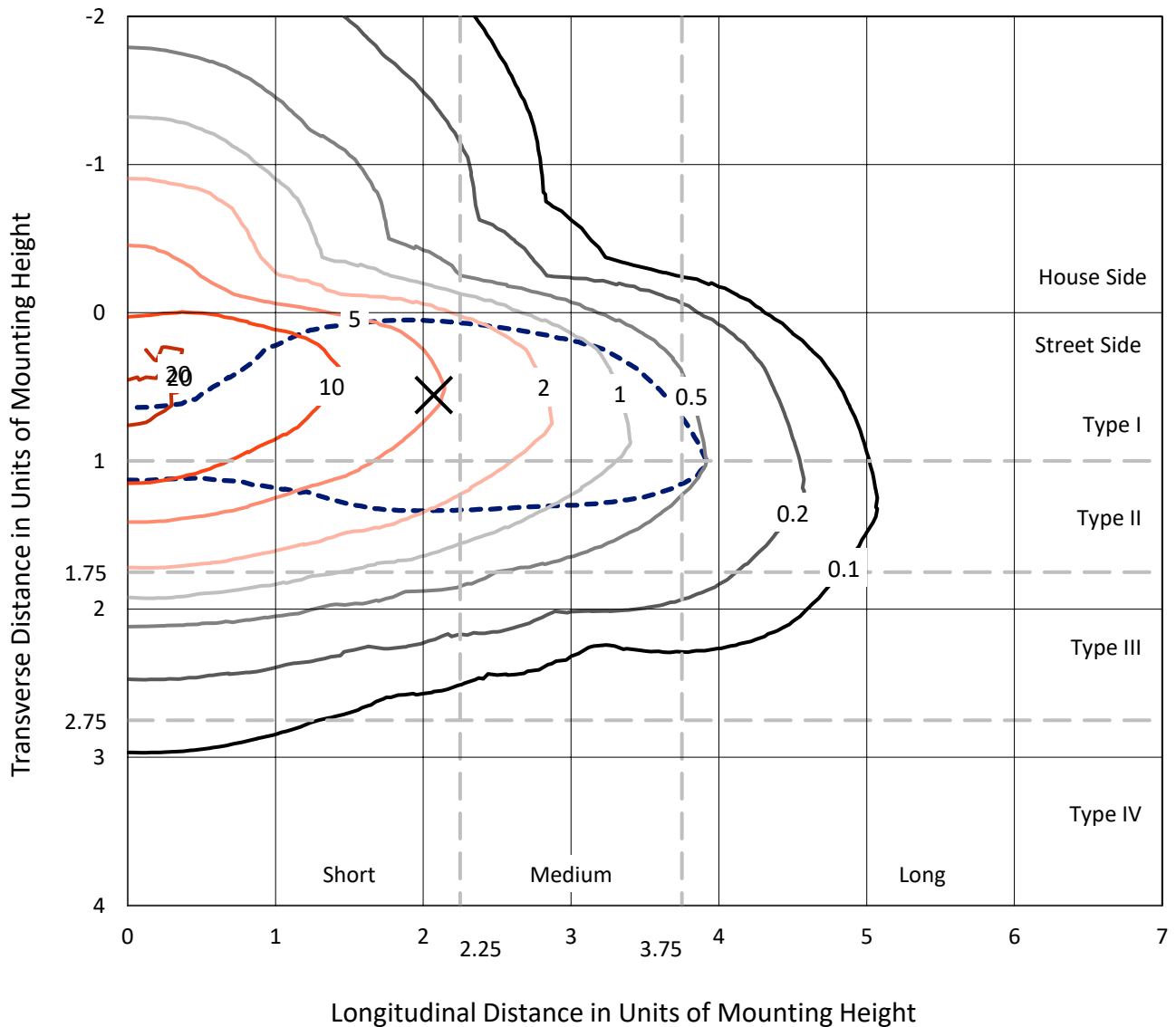
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

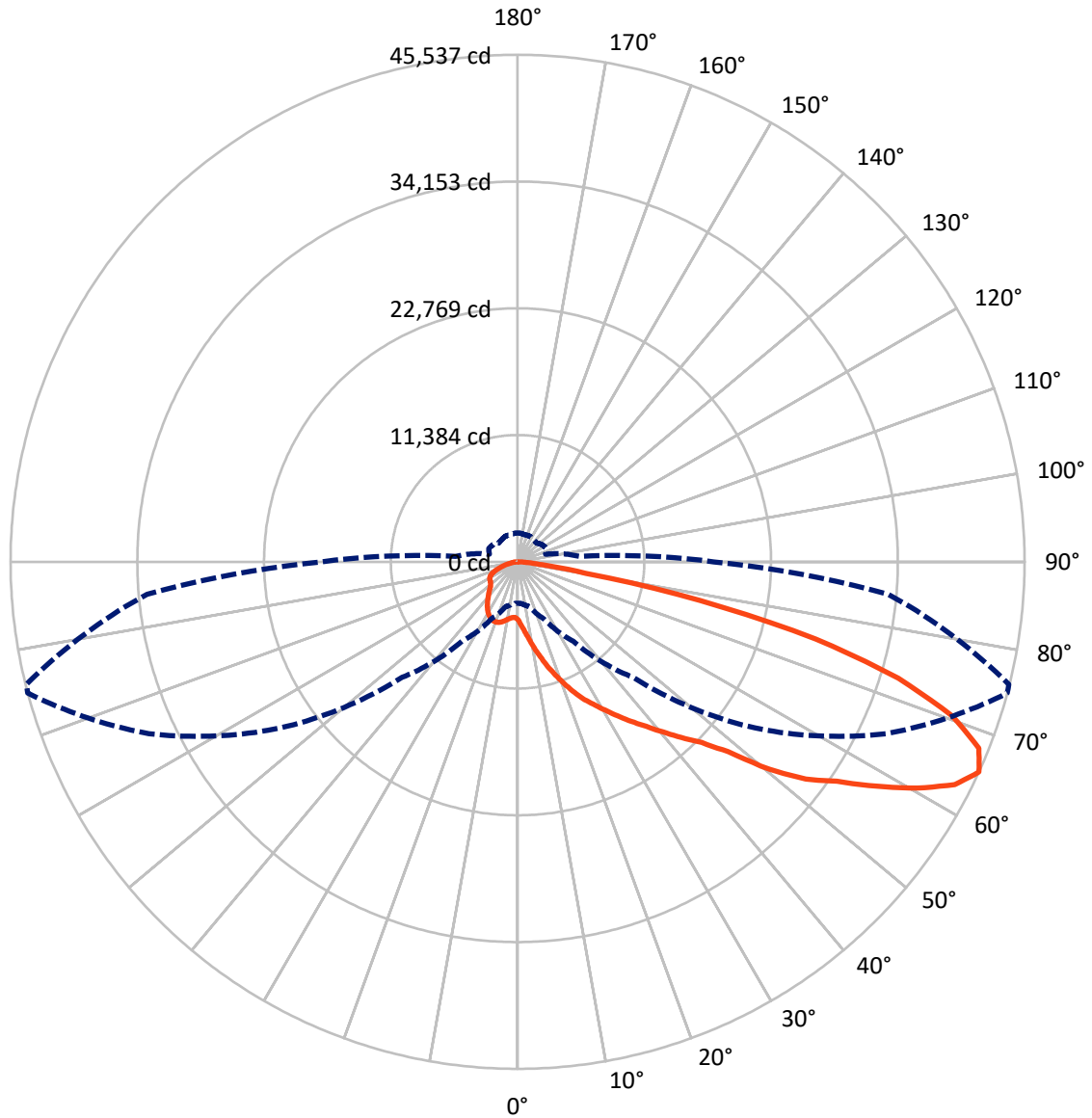
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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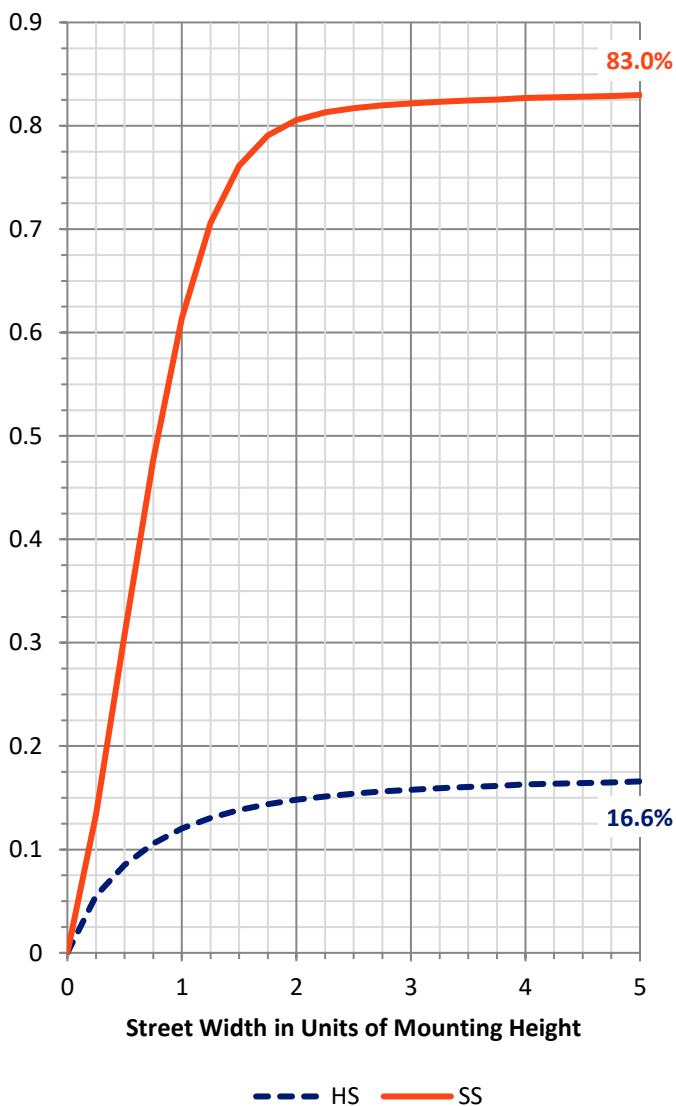
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9408.0	0.0	9408.0
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	46554.5	0.0	46554.5
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	55962.6	0.0	55962.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	631.7	1.1
10°-20°	2474.4	4.4
20°-30°	4779.8	8.5
30°-40°	7763.8	13.9
40°-50°	10679.8	19.1
50°-60°	12609.2	22.5
60°-70°	11047.8	19.7
70°-80°	5274.3	9.4
80°-90°	701.8	1.3
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°	55962.6	100.0
0°-180°	55962.6	100.0

**Coefficient of Utilization**

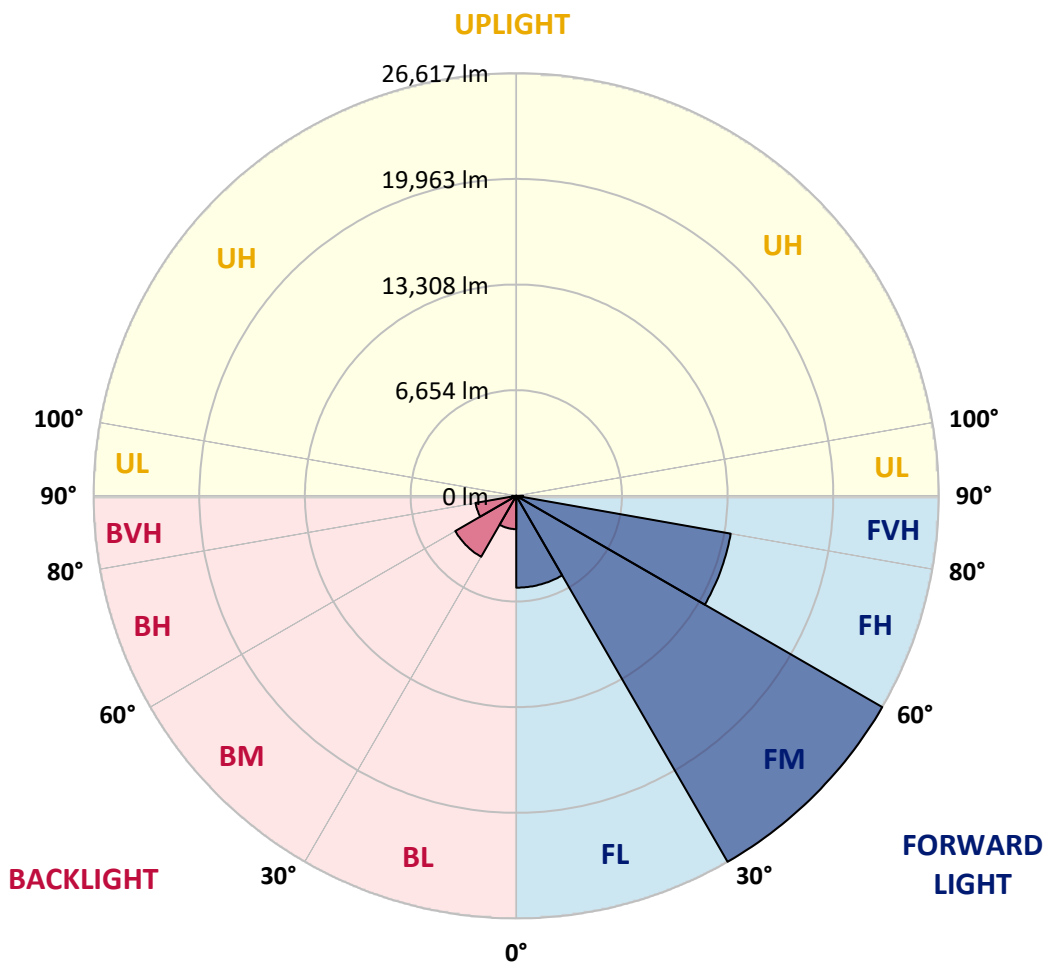


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5785.6	10.3			
FM (30°-60°)	26617.0	47.6			
FH (60°-80°)	13713.3	24.5			G5
FVH (80°-90°)	438.6	0.8			G3/500
BL (0°-30°)	2100.3	3.8	B3/2500		
BM (30°-60°)	4435.8	7.9	B3/5000		
BH (60°-80°)	2608.7	4.7	B4/5000		G4/5000
BVH (80°-90°)	263.2	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7
2.5°	6908.6	6863.0	6814.4	6680.9	6538.2	6377.4	6146.7	5925.1	5630.6	5621.5	5403.0
5°	8823.9	8793.6	8578.0	8453.6	8122.7	7682.6	7309.2	6729.5	6192.2	6128.5	5703.5
7.5°	10584.4	10466.0	10384.1	10159.4	9831.7	9267.0	8544.6	7761.5	6863.0	6778.0	6073.8
10°	11910.9	11898.8	11856.3	11662.0	11416.1	10854.6	10053.3	8930.1	7712.9	7546.0	6523.1
12.5°	12903.4	12912.5	12906.5	12903.4	12727.4	12250.8	11382.7	10198.9	8572.0	8453.6	7042.1
15°	13556.1	13647.1	13683.6	13835.3	13850.5	13531.8	12785.1	11425.2	9540.2	9364.2	7600.7
17.5°	13987.1	14032.6	14202.6	14460.6	14670.1	14612.4	13947.7	12560.5	10529.8	10235.4	8180.4
20°	14399.9	14478.8	14609.4	14961.5	15331.8	15501.8	15034.3	13723.0	11510.2	11322.0	8820.9
22.5°	15258.9	15371.2	15416.8	15595.9	15911.5	16212.0	15999.6	14837.0	12584.8	12329.7	9500.8
25°	16712.9	16831.3	16703.7	16661.3	16764.5	16913.2	16867.7	15887.2	13598.6	13234.3	10144.3
27.5°	18607.0	18622.2	18373.3	18136.5	17881.5	17805.7	17666.0	16819.2	14478.8	14175.3	10790.8
30°	20640.7	20567.8	20155.0	19727.1	19296.0	18871.1	18470.3	17717.6	15459.2	15110.2	11425.2
32.5°	22528.7	22489.2	22030.9	21366.1	20637.6	20236.9	19426.5	18625.1	16509.5	16172.6	12077.9
35°	23943.2	24000.8	23497.0	22771.5	21976.2	21621.1	20598.1	19578.3	17596.2	17228.9	12788.1
37.5°	24947.9	24917.6	24471.3	23843.1	23144.9	22835.3	21967.1	20619.4	18764.8	18412.7	13565.2
40°	25306.1	25287.8	24957.0	24498.7	24055.5	23946.3	23399.9	21742.5	20103.4	19690.6	14500.1
42.5°	25078.4	25117.9	24899.3	24774.9	24692.9	24771.8	24823.4	23214.7	21563.4	21184.0	15513.9
45°	24380.3	24359.1	24328.7	24532.0	24993.4	25512.5	26231.9	24604.9	23151.0	22847.4	16873.7
47.5°	23132.7	23284.5	23360.4	23921.9	24929.7	26159.0	27852.8	26468.6	25454.8	25190.8	18947.0
50°	21387.4	21508.8	21958.1	22956.7	24459.2	26401.8	29437.3	29516.2	29297.6	28802.9	21199.2
52.5°	18661.6	18849.8	19775.6	21605.9	23493.9	26301.7	30396.5	32129.6	32418.0	32047.7	23418.0
55°	15611.1	15875.1	16852.5	19253.5	22164.5	25755.3	31058.2	33644.3	34794.7	34451.7	25555.0
57.5°	12624.2	12903.4	13908.2	16233.3	19845.4	24547.2	31492.2	35332.0	38030.5	37584.2	28214.0
60°	9461.3	9752.7	10614.7	13009.7	16542.9	22185.7	31197.8	36795.0	41263.2	41072.0	30876.0
62.5°	6104.2	6425.9	7175.6	9157.8	12715.3	18959.1	29622.4	37602.5	44061.8	43831.1	32818.7
65°	3718.4	3754.8	4167.6	5685.3	8702.5	14679.1	26019.4	36530.9	45537.0	45467.2	33410.6
67.5°	2404.0	2461.7	2649.9	3405.7	5217.8	10195.9	20804.6	32994.8	44674.9	44650.7	32187.3
70°	2030.7	2048.9	2133.9	2297.8	3032.3	6183.1	14609.4	27358.0	41399.7	41399.7	29246.0
72.5°	1815.2	1839.4	1869.8	1921.4	2164.2	3502.8	8717.7	21296.3	35744.8	35981.6	24893.3
75°	1648.2	1642.2	1660.4	1669.4	1845.5	2288.7	4507.6	15750.7	27652.4	27178.9	18027.2
77.5°	1411.4	1420.6	1411.4	1450.9	1630.0	1742.3	2288.7	10569.2	16758.4	16145.2	9048.5
80°	1159.5	1174.7	1189.8	1214.1	1393.3	1323.4	1375.0	4817.2	6198.3	6067.8	2795.6
82.5°	871.2	892.4	916.7	974.4	1095.8	874.2	868.1	2058.0	2237.1	2048.9	1029.0
85°	352.1	415.9	628.4	686.0	689.0	479.6	534.2	859.0	913.7	892.4	403.7
87.5°	82.0	97.2	203.3	306.5	282.3	179.1	197.3	279.2	318.7	294.4	136.6
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°	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7	5199.7
2.5°	5302.9	5196.6	5014.5	4874.9	4774.7	4686.6	4632.0	4598.6	4586.5	4583.4	4586.5
5°	5481.9	5293.7	5005.3	4823.3	4723.1	4665.4	4632.0	4628.9	4632.0	4635.0	4626.0
7.5°	5727.8	5457.7	5081.3	4911.3	4835.4	4792.9	4777.7	4771.6	4774.7	4771.6	4771.6
10°	6055.6	5685.3	5230.0	5054.0	4990.2	4941.6	4917.3	4902.1	4890.0	4877.9	4871.8
12.5°	6416.8	5937.3	5390.9	5220.9	5129.8	5054.0	4999.3	4959.8	4932.5	4905.2	4899.2
15°	6820.6	6204.3	5569.9	5333.2	5202.6	5090.4	4996.2	4932.5	4884.0	4844.5	4841.4
17.5°	7206.0	6456.3	5691.4	5384.8	5193.6	5035.7	4911.3	4823.3	4762.5	4710.9	4704.9
20°	7618.8	6696.1	5746.0	5351.4	5102.5	4911.3	4747.3	4641.2	4571.3	4513.6	4504.5
22.5°	8034.7	6899.5	5739.9	5245.2	4944.6	4720.0	4547.0	4434.7	4352.8	4295.1	4273.8
25°	8432.4	7063.4	5664.1	5075.2	4726.1	4492.4	4316.4	4213.1	4140.3	4070.4	4070.4
27.5°	8790.5	7160.5	5521.4	4868.8	4501.5	4255.6	4116.0	4021.9	3955.1	3909.6	3882.3
30°	9142.6	7206.0	5327.1	4607.7	4264.8	4055.3	3943.0	3888.4	3827.6	3776.0	3770.0
32.5°	9458.3	7196.9	5084.3	4352.8	4040.1	3891.4	3845.9	3803.3	3739.6	3666.8	3648.5
35°	9764.9	7136.2	4796.0	4073.5	3851.9	3794.3	3806.4	3745.7	3630.3	3539.2	3524.1
37.5°	10098.7	7027.0	4480.2	3845.9	3694.0	3748.7	3779.1	3645.5	3457.3	3314.7	3281.2
40°	10484.2	6902.5	4152.4	3618.2	3569.6	3706.3	3706.3	3460.3	3202.3	3114.3	3090.0
42.5°	10936.6	6799.3	3879.2	3427.0	3466.4	3603.0	3587.9	3214.4	3108.3	3062.7	3050.6
45°	11652.8	6762.8	3596.9	3260.0	3381.5	3481.6	3357.1	3129.5	3068.8	3032.3	3020.2
47.5°	12785.1	6805.4	3348.0	3135.5	3284.3	3360.2	3099.1	3071.8	3029.3	2977.7	2971.6
50°	13835.3	6765.9	3172.0	3065.8	3199.3	3214.4	2992.9	3002.0	2977.7	2920.0	2907.9
52.5°	14694.3	6641.4	3059.7	3029.3	3126.4	2959.5	2892.7	2926.1	2917.0	2844.2	2832.0
55°	15638.4	6565.5	3005.1	3029.3	3077.9	2737.9	2798.6	2847.2	2835.1	2783.5	2780.4
57.5°	16782.7	6580.7	2965.6	3038.4	3029.3	2625.6	2704.6	2762.2	2759.1	2744.0	2744.0
60°	17954.3	6586.8	2904.9	3035.4	2971.6	2537.6	2607.4	2689.4	2695.4	2704.6	2704.6
62.5°	18342.9	6322.7	2786.5	2980.7	2844.2	2452.6	2516.3	2628.7	2622.6	2646.9	2649.9
65°	17617.4	5591.2	2610.4	2856.3	2680.3	2391.9	2446.6	2549.8	2516.3	2580.1	2592.2
67.5°	16036.0	4626.0	2337.3	2631.7	2498.2	2328.2	2401.0	2440.5	2379.8	2504.2	2507.2
70°	13859.6	3612.1	1991.2	2313.0	2291.7	2261.4	2364.6	2303.9	2218.9	2370.6	2340.3
72.5°	11589.1	2759.1	1590.5	1891.0	2015.5	2161.2	2300.8	2127.8	2009.4	2055.0	2000.3
75°	8705.5	2039.8	1277.9	1481.3	1678.6	2018.6	2243.1	1915.3	1733.2	1690.7	1678.6
77.5°	4437.7	1332.5	956.1	1107.9	1259.7	1824.2	2164.2	1666.5	1435.7	1369.0	1338.6
80°	1584.5	828.6	673.8	764.9	849.9	1569.3	1891.0	1378.1	1114.0	1101.8	1114.0
82.5°	734.5	534.2	452.3	500.8	503.9	1047.2	1441.8	1029.0	846.9	1287.0	1086.6
85°	315.7	267.1	254.9	248.9	230.7	467.5	810.5	552.4	862.1	385.5	355.2
87.5°	94.1	106.3	94.1	69.8	51.6	51.6	82.0	30.4	21.2	15.2	15.2
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)