

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: P646911

Luminaire Tested: **GALN-SA4C-835-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646911  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-835-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13004.1 lumens  
Efficiency: N/A  
Efficacy: 61.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

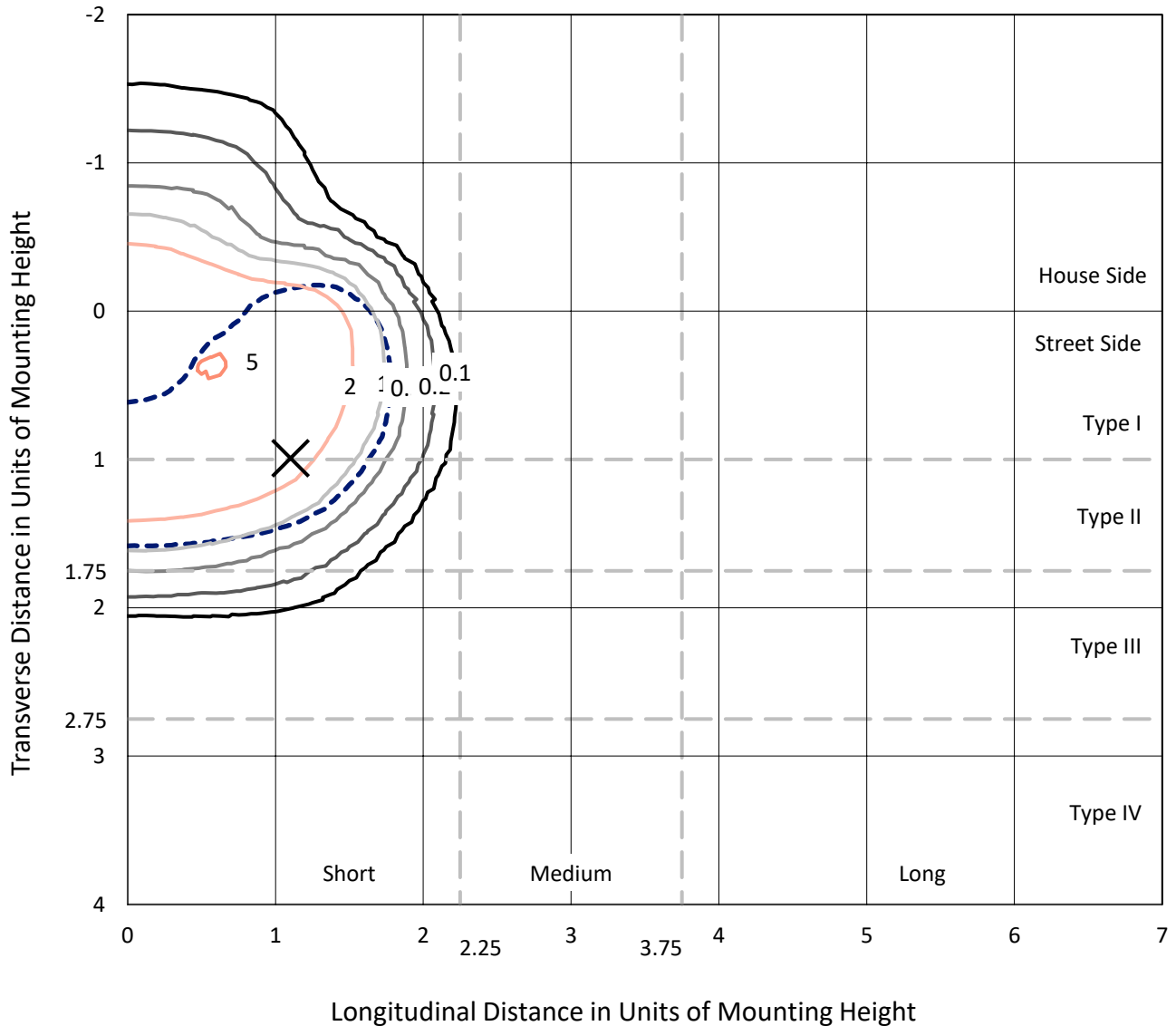
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

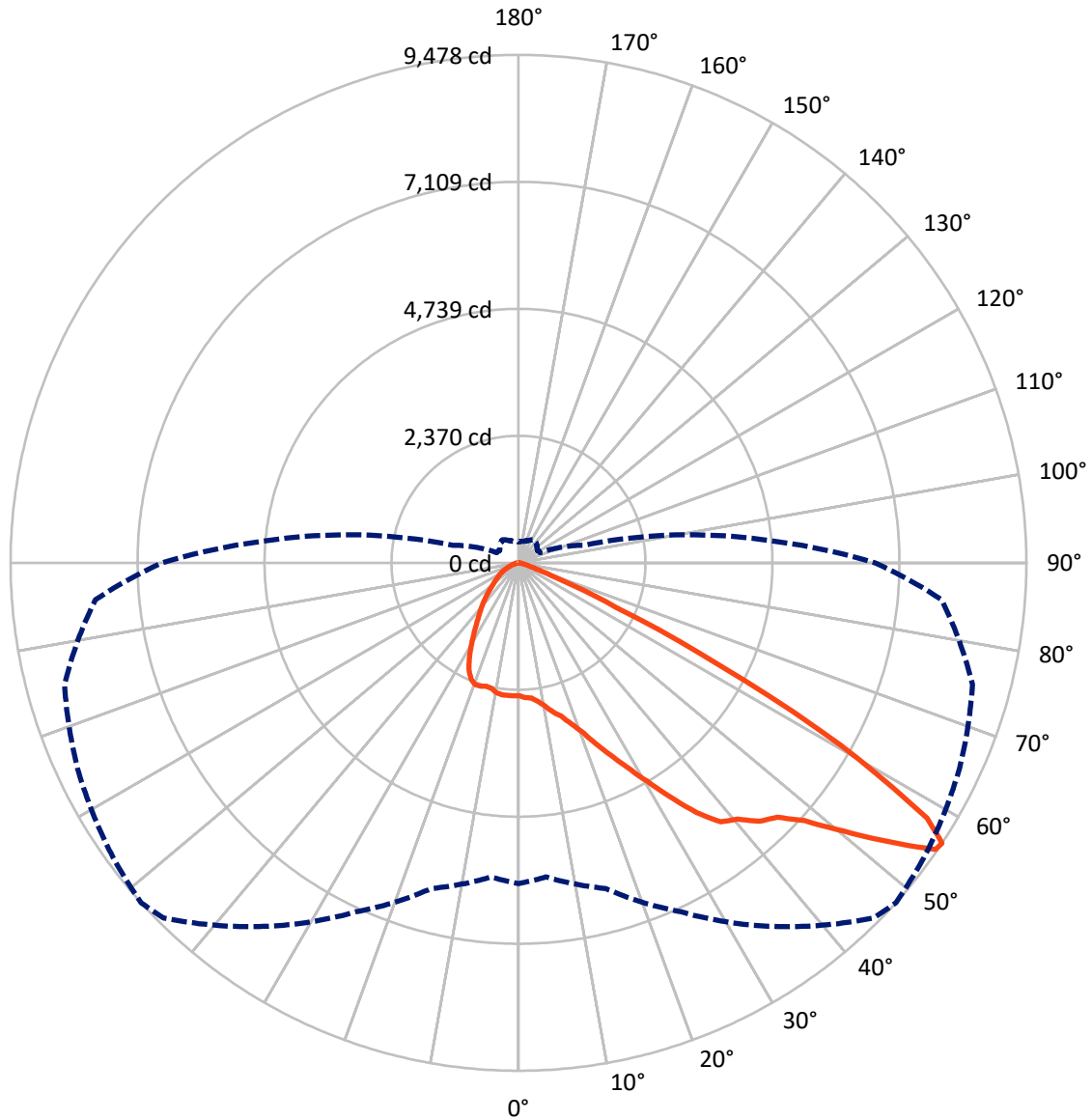
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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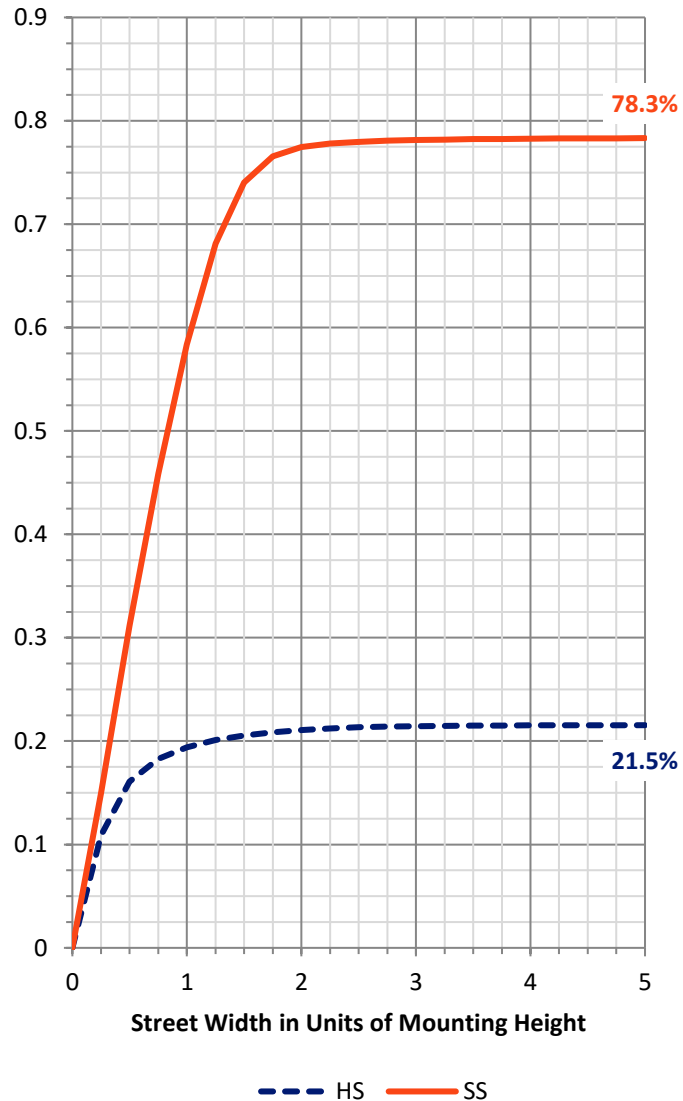
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2828.1	0.0	2828.1
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	10175.9	0.0	10175.9
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	13004.1	0.0	13004.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.9	1.9
10°-20°	773.2	5.9
20°-30°	1402.5	10.8
30°-40°	2203.0	16.9
40°-50°	3213.8	24.7
50°-60°	3872.0	29.8
60°-70°	1133.7	8.7
70°-80°	143.8	1.1
80°-90°	20.1	0.2
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°	13004.1	100.0
0°-180°	13004.1	100.0

**Coefficient of Utilization**



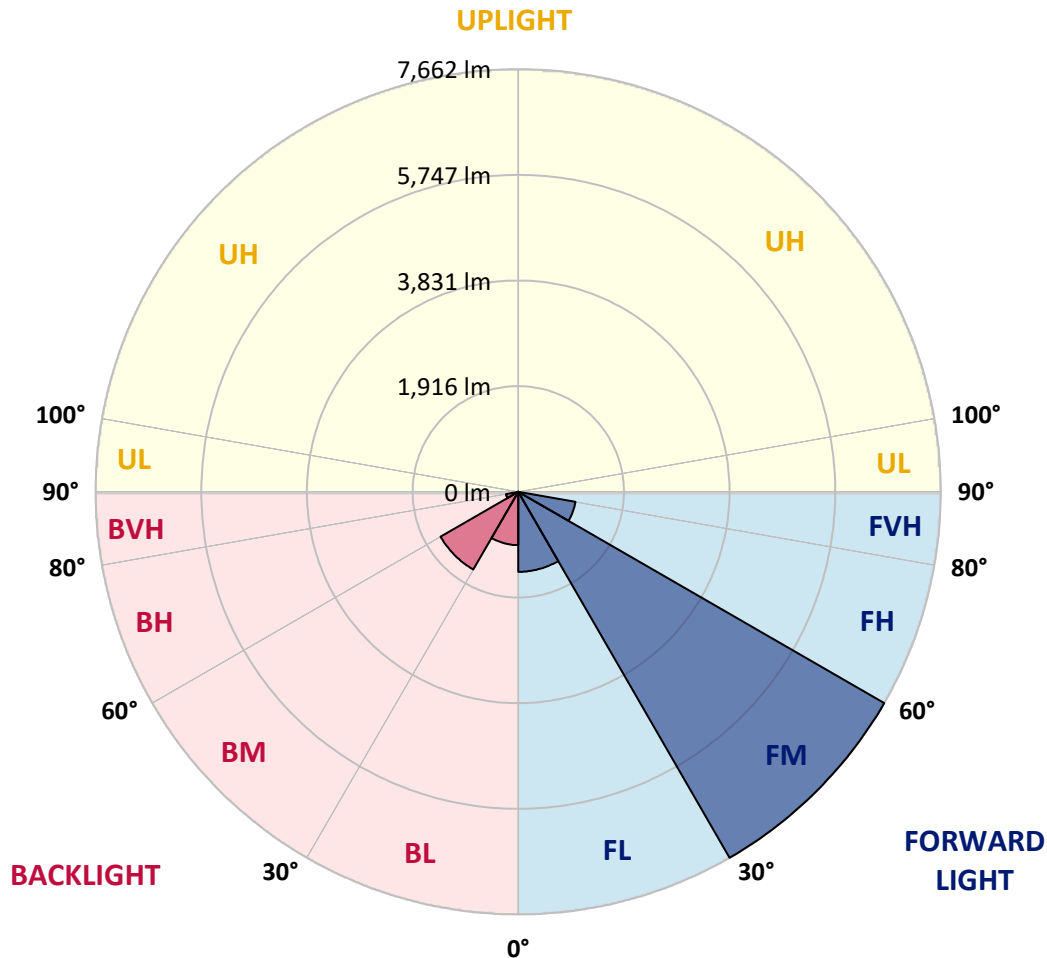
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1451.0	11.2			
FM (30°-60°)	7662.0	58.9			
FH (60°-80°)	1052.8	8.1			G1/1800
FVH (80°-90°)	10.1	0.1			G1/100
BL (0°-30°)	966.6	7.4	B2/1000		
BM (30°-60°)	1626.7	12.5	B2/2500		
BH (60°-80°)	224.7	1.7	B1/500		G1/500
BVH (80°-90°)	10.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8
2.5°	2528.8	2517.0	2517.0	2498.0	2519.3	2509.8	2517.0	2493.2	2517.0	2481.4	2509.8
5°	2540.6	2542.9	2533.5	2545.4	2545.4	2559.5	2535.9	2557.2	2569.0	2542.9	2531.1
7.5°	2602.1	2606.9	2604.6	2595.1	2614.0	2611.6	2609.3	2592.7	2597.4	2588.0	2573.7
10°	2723.0	2720.5	2732.4	2708.7	2694.5	2711.1	2715.8	2689.8	2670.8	2663.8	2618.7
12.5°	2898.1	2869.7	2853.2	2829.4	2836.6	2812.9	2855.5	2810.5	2801.0	2758.4	2713.5
15°	3040.2	3035.5	3037.8	3000.0	2957.3	2966.8	2966.8	2943.1	2928.9	2876.8	2812.9
17.5°	3331.4	3232.0	3253.3	3205.9	3170.4	3168.1	3146.7	3151.5	3113.6	3004.7	2907.6
20°	3558.7	3516.1	3482.9	3402.4	3348.0	3364.6	3355.2	3331.4	3319.6	3177.6	3040.2
22.5°	3762.4	3776.6	3722.1	3700.8	3625.1	3632.2	3651.1	3629.8	3539.8	3393.0	3189.4
25°	4048.9	4032.3	3958.9	3932.9	3861.8	3887.8	3961.3	3944.7	3887.8	3622.7	3305.4
27.5°	4387.5	4330.6	4344.9	4226.5	4157.8	4231.2	4318.8	4401.6	4240.6	3892.6	3442.7
30°	4626.6	4567.4	4562.7	4557.9	4541.4	4626.6	4728.5	4804.2	4674.0	4162.5	3670.0
32.5°	4745.0	4759.2	4799.5	4785.2	4929.7	5104.9	5211.4	5320.3	5157.0	4602.9	3970.7
35°	5059.9	4969.9	5059.9	5069.4	5218.5	5590.3	5725.2	5985.7	5945.5	5225.7	4337.7
37.5°	5244.6	5237.5	5249.3	5339.3	5483.7	5943.0	6134.9	6336.1	6260.4	5599.8	4794.7
40°	5550.1	5569.0	5566.6	5635.3	5793.9	6208.3	6286.4	6449.8	6456.9	6118.3	5467.1
42.5°	6040.1	5964.4	5914.7	5985.7	6208.3	6438.0	6594.2	6561.1	6795.5	6748.1	6331.4
45°	6480.6	6525.5	6452.2	6570.5	6651.0	6774.2	6769.4	6840.4	7138.8	7363.7	6982.6
47.5°	6892.6	6920.9	6956.5	7037.0	7212.2	7231.2	7190.9	7160.1	7572.1	7804.2	7486.9
50°	7138.8	7164.8	7330.6	7475.0	7801.8	7844.4	7868.1	7789.9	8069.4	8095.4	7962.8
52.5°	7072.5	7100.9	7333.0	7808.9	8329.8	8720.4	8649.4	8516.8	8500.2	8602.1	8403.2
55°	6485.3	6459.3	6778.9	7520.0	8495.6	9433.2	9442.7	9302.9	9035.4	8966.7	8336.9
56°	5985.7	5883.9	6291.2	7186.1	8282.4	9371.6	9478.1	9329.0	9078.0	8770.2	7927.2
57.5°	4903.6	5000.7	5405.6	6146.7	7546.1	8928.9	8990.4	8954.9	8765.5	8249.3	6975.4
60°	2704.0	2874.5	3232.0	4138.9	5372.5	6852.3	6902.0	7190.9	7226.4	6317.2	4799.5
62.5°	1148.3	1129.4	1501.2	2168.8	3059.2	4136.5	4228.8	4524.8	4579.2	3641.7	2408.0
65°	466.4	492.5	679.6	1091.5	1617.2	1884.8	2015.0	2112.1	2292.0	1503.5	887.9
67.5°	307.8	305.4	400.1	622.7	871.3	840.6	840.6	887.9	821.6	613.2	383.6
70°	220.2	227.3	286.5	431.0	542.2	402.5	385.9	369.3	419.1	404.9	310.1
72.5°	144.5	153.9	191.8	258.1	281.8	220.2	220.2	265.2	345.7	326.7	253.4
75°	94.7	97.1	118.4	149.2	139.7	113.7	125.5	177.6	251.0	241.5	179.9
77.5°	63.9	66.3	80.5	97.1	78.1	63.9	68.7	90.0	123.1	123.1	94.7
80°	23.6	26.1	33.1	30.8	35.5	45.0	49.7	61.5	73.4	73.4	63.9
82.5°	0.0	2.3	7.1	16.6	26.1	35.5	40.2	47.4	54.5	61.5	59.2
85°	0.0	2.3	7.1	11.8	18.9	21.3	23.6	16.6	14.2	14.2	11.8
87.5°	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	4.7	2.3	2.3
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°	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8
2.5°	2483.8	2481.4	2481.4	2474.3	2488.5	2481.4	2486.2	2483.8	2453.0	2476.7	2460.1
5°	2509.8	2526.4	2500.4	2495.7	2476.7	2483.8	2483.8	2460.1	2481.4	2479.1	2474.3
7.5°	2576.1	2547.7	2519.3	2490.9	2486.2	2479.1	2453.0	2443.5	2460.1	2441.2	2469.6
10°	2604.6	2609.3	2566.7	2528.8	2493.2	2443.5	2408.0	2386.7	2360.7	2389.1	2405.6
12.5°	2734.8	2687.4	2614.0	2554.9	2434.0	2384.3	2348.8	2339.4	2384.3	2393.8	2377.3
15°	2779.7	2772.7	2677.9	2545.4	2419.9	2360.7	2367.8	2348.8	2353.5	2329.9	2334.6
17.5°	2872.1	2791.6	2680.3	2514.5	2417.5	2403.3	2360.7	2284.9	2242.3	2223.3	2239.9
20°	2973.9	2895.8	2734.8	2526.4	2438.8	2400.9	2261.2	2168.8	2081.3	2033.9	2036.3
22.5°	3063.9	2966.8	2711.1	2531.1	2457.8	2301.5	2133.4	1951.0	1842.1	1768.7	1771.1
25°	3172.8	3035.5	2720.5	2540.6	2408.0	2142.8	1901.3	1723.7	1593.5	1543.8	1560.4
27.5°	3234.3	3078.1	2772.7	2561.9	2277.8	1917.9	1657.5	1491.7	1415.9	1392.3	1389.9
30°	3419.0	3172.8	2836.6	2519.3	2059.9	1676.4	1434.8	1333.1	1259.6	1238.3	1243.1
32.5°	3693.7	3345.7	2919.4	2408.0	1837.4	1460.9	1290.5	1214.7	1146.0	1105.8	1101.0
35°	3923.4	3641.7	3007.0	2235.2	1579.3	1295.2	1188.6	1093.9	989.7	944.8	932.9
37.5°	4361.4	3975.4	2988.1	1974.7	1333.1	1172.1	1079.7	963.7	873.7	812.1	805.0
40°	4943.9	4366.2	2895.8	1657.5	1150.7	1063.2	963.7	852.4	741.1	689.0	684.3
42.5°	5651.9	4844.4	2727.7	1335.4	968.4	954.2	864.2	736.4	636.9	599.1	601.4
45°	6227.2	5254.1	2557.2	1072.6	833.4	847.7	769.5	648.8	580.1	549.4	549.4
47.5°	6738.7	5531.1	2372.5	885.6	708.0	741.1	672.4	601.4	542.2	518.5	513.8
50°	7231.2	5812.8	2187.8	717.5	603.8	636.9	629.8	573.0	525.6	497.2	499.6
52.5°	7539.0	5857.9	1953.4	587.2	528.0	565.9	589.6	537.5	485.4	468.8	464.1
55°	7162.5	5277.7	1515.3	483.0	447.5	497.2	542.2	483.0	442.8	414.4	412.0
56°	6655.8	4719.0	1266.7	445.1	423.8	478.3	525.6	461.7	416.7	400.1	388.3
57.5°	5635.3	3861.8	935.3	395.4	393.1	445.1	499.6	440.4	388.3	374.1	374.1
60°	3513.8	2173.6	565.9	331.5	341.0	395.4	449.9	393.1	345.7	345.7	352.8
62.5°	1600.6	904.5	343.3	281.8	293.6	341.0	400.1	355.2	329.1	355.2	359.9
65°	544.6	390.7	248.6	225.0	232.0	281.8	343.3	359.9	357.5	374.1	383.6
67.5°	305.4	251.0	208.4	187.1	182.3	208.4	281.8	359.9	345.7	338.6	343.3
70°	258.1	213.1	184.7	165.8	158.6	168.1	217.8	272.3	243.9	236.8	232.0
72.5°	208.4	177.6	161.0	149.2	127.9	108.9	99.4	104.2	116.0	123.1	135.0
75°	146.8	135.0	135.0	120.7	92.3	68.7	54.5	45.0	30.8	21.3	23.6
77.5°	82.8	82.8	85.3	73.4	59.2	45.0	33.1	23.6	11.8	4.7	2.3
80°	56.8	61.5	66.3	59.2	49.7	40.2	28.4	16.6	7.1	0.0	0.0
82.5°	56.8	63.9	68.7	59.2	49.7	37.9	28.4	16.6	7.1	2.3	0.0
85°	11.8	14.2	16.6	18.9	28.4	28.4	21.3	14.2	7.1	2.3	0.0
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0	0.0
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)