

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: P651222

Luminaire Tested: **GALN-SA2D-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651222  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-840-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9759.8 lumens  
Efficiency: N/A  
Efficacy: 78.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

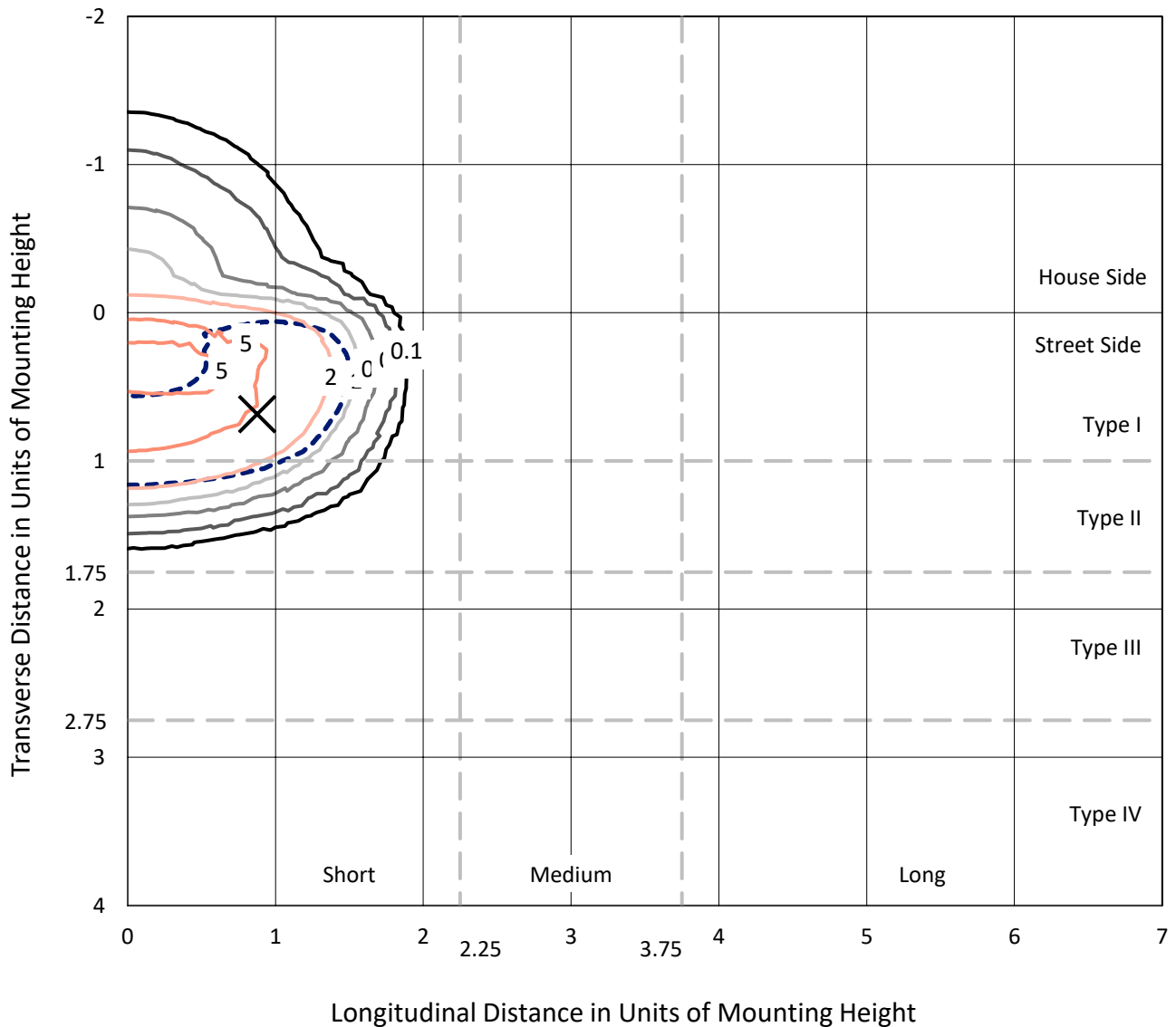
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

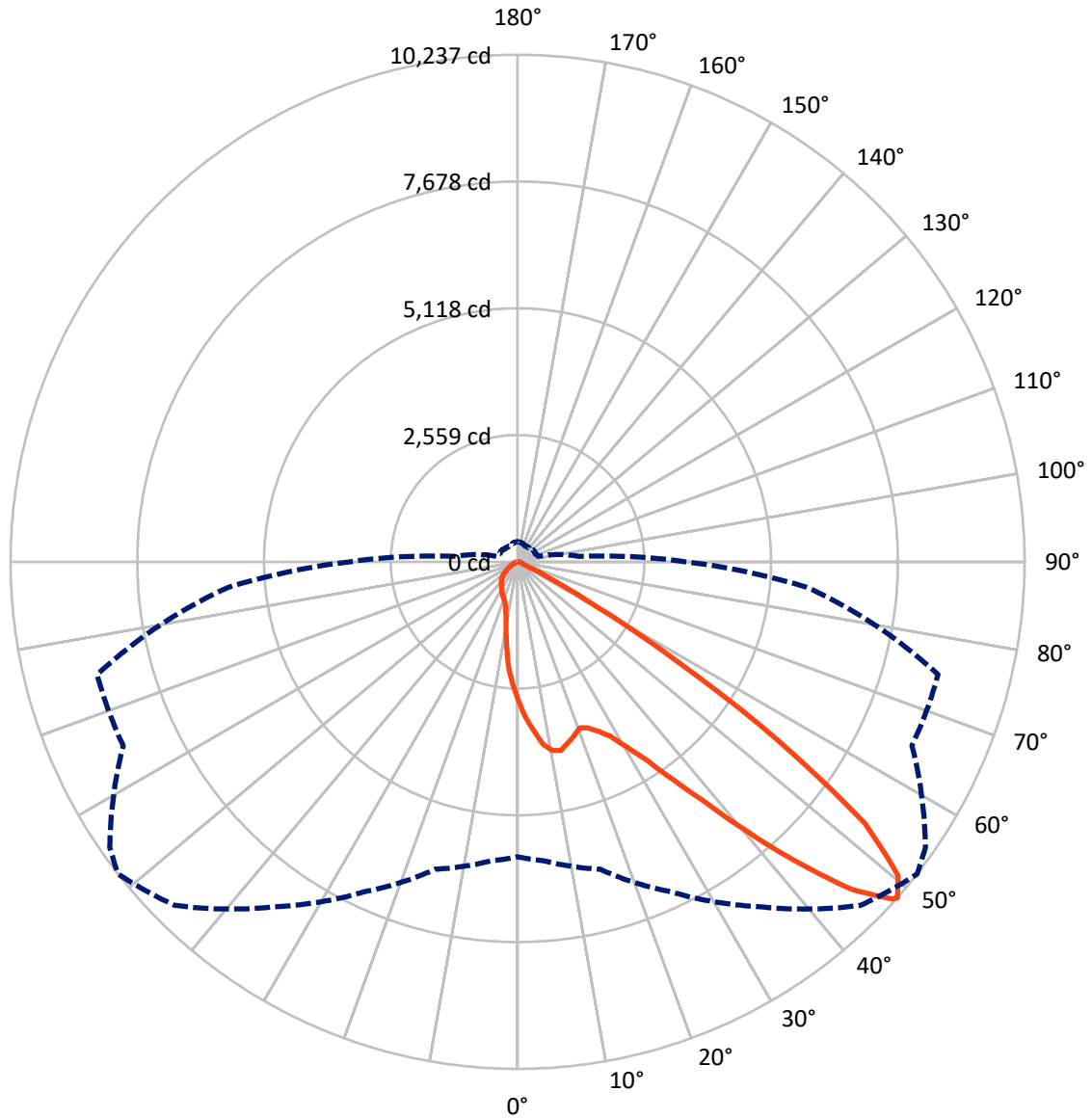
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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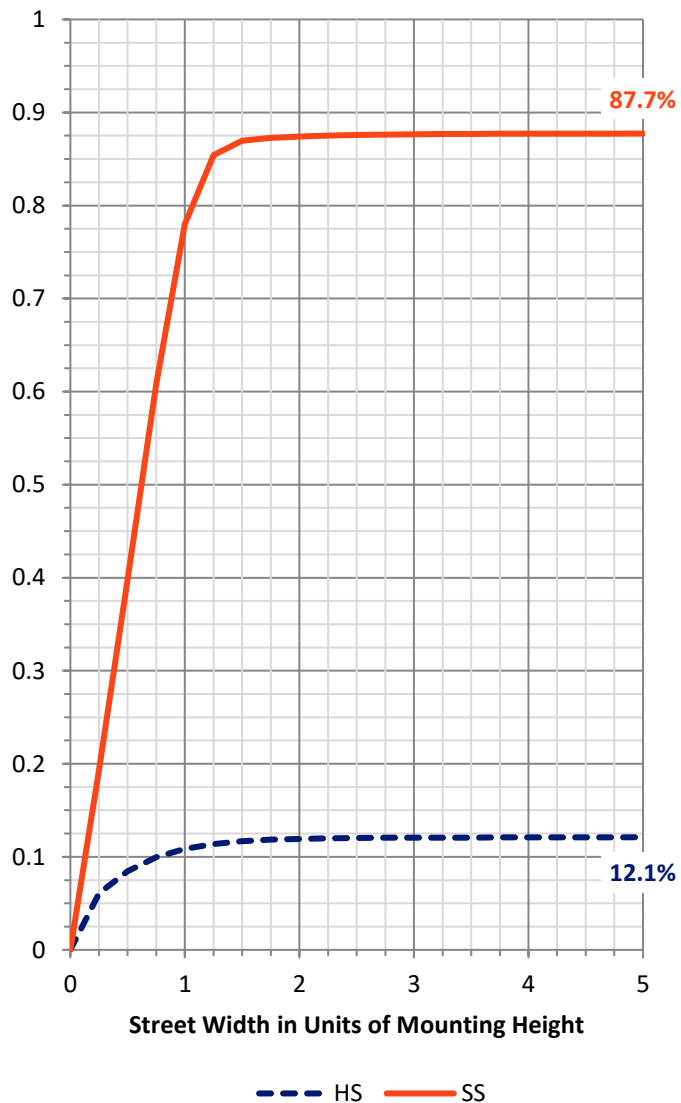
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1188.3	0.0	1188.3
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	8571.5	0.0	8571.5
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	9759.8	0.0	9759.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.0	2.6
10°-20°	674.2	6.9
20°-30°	1151.1	11.8
30°-40°	2119.7	21.7
40°-50°	3291.9	33.7
50°-60°	1981.2	20.3
60°-70°	229.1	2.3
70°-80°	44.4	0.5
80°-90°	10.3	0.1
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°	9759.8	100.0
0°-180°	9759.8	100.0

**Coefficient of Utilization**

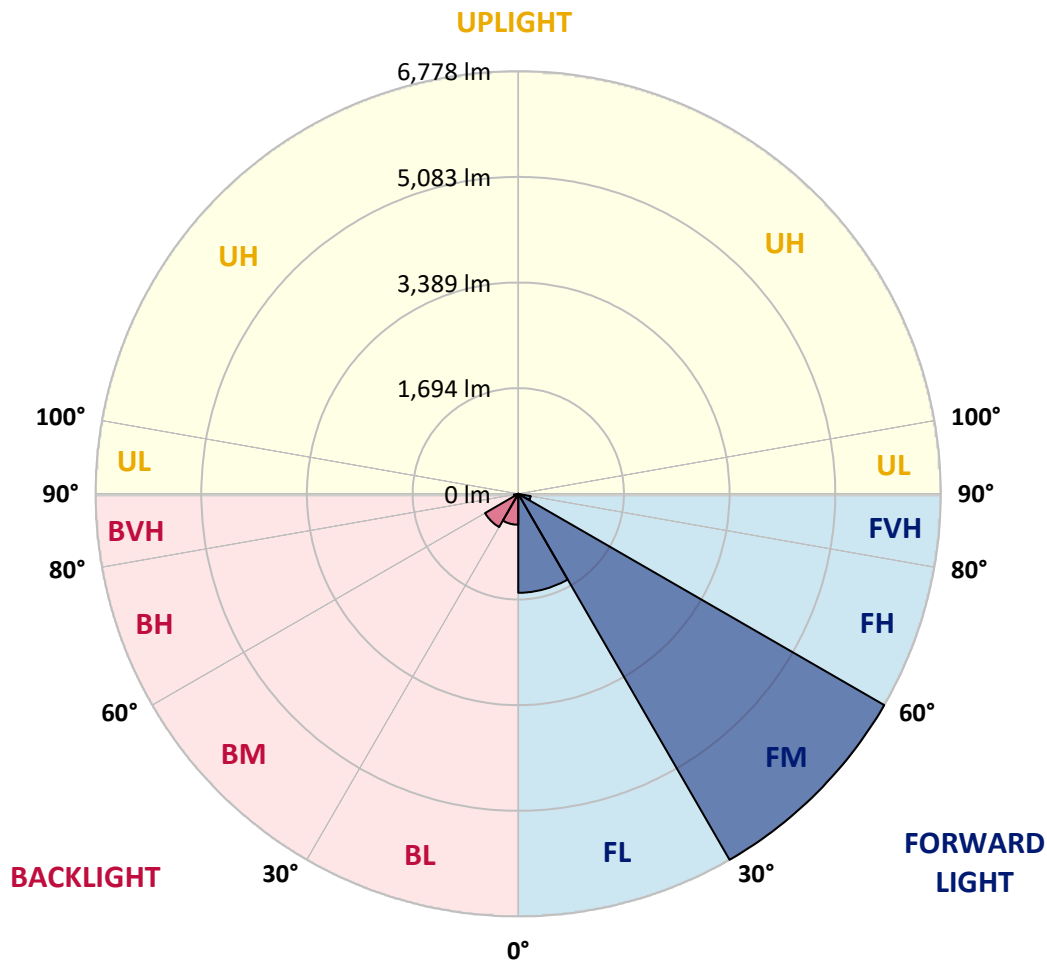


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1586.8	16.3			
FM (30°-60°)	6778.0	69.4			
FH (60°-80°)	201.8	2.1			G0/660
FVH (80°-90°)	4.9	0.1			G0/10
BL (0°-30°)	496.4	5.1	B1/500		
BM (30°-60°)	614.8	6.3	B1/1000		
BH (60°-80°)	71.7	0.7	B0/110		G0/110
BVH (80°-90°)	5.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4
2.5°	3416.1	3337.8	3344.9	3293.7	3263.8	3215.4	3150.0	3137.2	3066.0	2969.3	2871.1
5°	3723.4	3704.9	3729.0	3655.1	3657.9	3578.2	3424.6	3427.4	3263.8	3105.9	2953.6
7.5°	3743.3	3700.6	3724.8	3790.2	3828.7	3814.4	3727.6	3652.2	3497.1	3265.2	3043.2
10°	3352.0	3433.1	3458.7	3566.8	3720.5	3882.7	3872.7	3877.0	3747.5	3444.5	3120.1
12.5°	3117.3	3063.2	3150.0	3215.4	3447.3	3761.8	3905.4	3936.7	3946.7	3618.1	3196.9
15°	3010.5	3010.5	3024.7	3043.2	3211.2	3501.4	3794.5	3885.5	4100.4	3845.7	3317.8
17.5°	3077.4	3074.5	3094.5	3056.1	3118.7	3342.0	3692.1	3795.9	4272.5	4069.1	3413.2
20°	3280.8	3290.8	3278.0	3167.0	3171.3	3339.2	3578.2	3741.9	4389.2	4262.5	3539.8
22.5°	3564.0	3569.7	3497.1	3376.2	3340.6	3423.1	3643.6	3768.9	4483.1	4494.5	3578.2
25°	3891.2	3868.4	3854.2	3683.5	3575.3	3646.5	3791.6	3864.2	4541.4	4693.6	3687.8
27.5°	4345.1	4299.5	4212.7	4060.5	3980.9	3879.9	3983.7	4103.2	4707.9	4972.5	3807.3
30°	5015.2	4975.4	4806.1	4609.7	4400.5	4301.0	4333.7	4399.2	5008.1	5295.4	3965.2
32.5°	6023.9	5940.0	5695.3	5321.1	5036.5	4761.9	4753.4	4823.1	5277.0	5742.3	4153.0
35°	7135.1	7109.5	6749.5	6363.9	5813.3	5389.4	5396.5	5433.4	5792.1	6328.4	4399.2
37.5°	7873.5	8014.4	7785.3	7371.3	6908.9	6302.8	6149.1	6161.9	6499.2	7022.7	4843.1
40°	8444.1	8324.6	8351.6	8254.8	7939.0	7526.4	7186.3	7119.5	7317.2	7791.0	5284.1
42.5°	8195.0	8200.8	8367.2	8596.3	8674.5	8644.6	8297.5	8170.8	8017.2	8419.8	5703.8
45°	7492.2	7638.7	7855.0	8461.1	8993.2	9492.6	9424.3	9213.7	8500.9	8917.8	5945.7
47.5°	6371.1	6365.4	6719.7	7507.9	8690.1	9859.6	10169.8	10021.9	8843.8	8862.3	5895.9
48°	5957.1	6059.5	6425.2	7352.8	8498.1	9805.6	10236.7	10050.3	8785.5	8788.4	5853.2
50°	4403.4	4384.9	4840.2	5978.4	7590.4	9213.7	9955.0	10100.1	8784.1	8414.1	5554.4
52.5°	2326.2	2405.8	2737.4	3758.9	5366.6	7540.6	8781.2	9007.4	8473.9	7802.4	5124.7
55°	988.8	893.5	1148.1	1697.3	3019.1	5037.9	6442.2	6945.9	7165.0	6904.6	4483.1
57.5°	352.9	385.6	443.9	638.8	1269.1	2757.3	3841.4	4232.7	4964.0	5066.4	3054.7
60°	226.2	230.5	249.0	293.1	476.6	1062.8	1822.5	2134.1	2465.6	2545.3	1425.6
62.5°	175.0	176.4	184.9	192.1	226.2	412.6	684.3	811.0	842.3	724.2	374.2
65°	146.5	147.9	150.8	150.8	160.8	193.5	239.0	263.2	256.1	253.2	212.0
67.5°	112.4	115.2	120.9	120.9	126.7	118.1	132.3	140.9	159.4	193.5	180.7
70°	88.2	89.7	93.9	96.7	96.7	85.4	95.3	103.9	116.6	143.7	142.3
72.5°	68.3	71.1	74.0	74.0	69.7	58.4	68.3	75.4	83.9	99.6	96.7
75°	52.6	52.6	54.1	44.1	34.1	29.9	41.3	49.8	62.6	65.4	54.1
77.5°	14.2	15.6	14.2	12.8	14.2	21.4	27.0	31.3	39.9	39.9	35.6
80°	0.0	1.4	4.3	8.6	14.2	19.9	24.2	27.0	31.3	34.1	32.7
82.5°	0.0	1.4	4.3	8.6	12.8	15.6	21.4	22.8	25.7	29.9	29.9
85°	0.0	1.4	2.9	5.7	8.6	9.9	9.9	8.6	8.6	7.1	5.7
87.5°	0.0	0.0	1.4	2.9	2.9	4.3	4.3	4.3	4.3	4.3	4.3
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°	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4	2818.4
2.5°	2832.7	2788.6	2721.7	2616.4	2515.4	2450.0	2387.3	2317.6	2279.3	2276.4	2255.1
5°	2866.9	2767.2	2607.9	2427.2	2233.7	2067.3	1899.4	1789.8	1691.7	1637.6	1627.6
7.5°	2885.3	2755.9	2498.4	2195.3	1865.3	1593.4	1405.6	1267.6	1213.6	1173.8	1172.4
10°	2923.7	2735.9	2334.7	1888.0	1479.7	1205.1	1075.6	1013.0	983.1	971.8	954.7
12.5°	2952.2	2698.9	2166.8	1572.2	1169.5	998.8	941.8	927.6	929.1	934.8	927.6
15°	2992.0	2666.2	1940.6	1290.4	981.7	899.2	899.2	902.1	921.9	924.8	923.3
17.5°	2989.2	2602.2	1707.3	1062.8	867.9	856.5	860.8	887.8	900.6	904.8	894.9
20°	3023.3	2542.4	1466.9	907.7	803.8	820.9	849.4	856.5	872.1	875.0	863.6
22.5°	3013.4	2393.1	1243.5	785.3	755.5	788.2	816.7	825.2	820.9	812.4	811.0
25°	2994.9	2265.0	1038.6	704.3	719.9	755.5	782.6	766.8	758.3	759.8	761.2
27.5°	2962.2	2102.8	869.3	647.3	671.5	724.2	722.8	717.0	725.6	718.5	725.6
30°	2956.5	1940.6	729.9	596.1	636.0	674.4	677.3	687.2	697.2	684.3	697.2
32.5°	2965.0	1762.8	630.2	564.8	614.6	616.0	647.3	657.3	650.2	621.8	624.6
35°	3030.5	1626.2	557.8	547.7	580.5	581.9	611.7	599.0	567.7	550.6	560.5
37.5°	3168.5	1512.4	523.6	532.1	535.0	553.5	554.9	529.2	532.1	530.7	536.4
40°	3344.9	1425.6	499.4	517.9	515.0	527.8	476.6	490.8	503.7	508.0	510.7
42.5°	3465.8	1363.0	483.7	495.1	489.5	466.7	438.2	452.5	462.4	478.0	480.9
45°	3519.9	1313.2	465.2	455.3	455.3	414.0	402.7	405.4	428.2	445.3	442.5
47.5°	3431.7	1264.9	432.5	402.7	412.6	378.4	365.7	365.7	389.8	411.2	406.9
48°	3397.6	1244.9	434.0	391.2	398.4	372.7	359.9	357.1	384.2	404.1	404.1
50°	3228.3	1170.9	397.0	359.9	345.7	342.9	334.4	337.2	354.2	372.7	372.7
52.5°	2898.2	1011.6	335.7	308.7	283.2	300.2	304.4	298.8	307.3	324.4	322.9
55°	2418.7	776.8	268.9	256.1	236.2	254.7	263.2	256.1	247.6	260.4	260.4
57.5°	1549.4	418.3	214.9	217.7	197.8	216.2	223.4	206.3	190.7	200.6	199.1
60°	698.5	250.4	176.4	172.2	159.4	180.7	192.1	172.2	150.8	157.9	165.0
62.5°	261.8	177.9	133.7	130.9	128.1	147.9	153.7	138.0	116.6	120.9	122.4
65°	192.1	156.5	106.7	96.7	102.4	116.6	113.8	98.1	83.9	83.9	86.8
67.5°	163.6	136.6	86.8	75.4	75.4	76.9	71.1	62.6	58.4	61.1	64.0
70°	128.1	108.2	68.3	58.4	52.6	46.9	41.3	39.9	35.6	39.9	38.4
72.5°	82.5	72.6	52.6	44.1	39.9	32.7	27.0	25.7	21.4	19.9	19.9
75°	44.1	44.1	41.3	35.6	31.3	25.7	21.4	17.1	11.4	8.6	8.6
77.5°	31.3	34.1	37.0	34.1	28.4	21.4	17.1	11.4	5.7	2.9	2.9
80°	29.9	34.1	37.0	32.7	28.4	21.4	15.6	8.6	4.3	1.4	1.4
82.5°	27.0	31.3	34.1	29.9	25.7	18.5	14.2	8.6	4.3	1.4	1.4
85°	5.7	7.1	8.6	8.6	9.9	12.8	9.9	7.1	2.9	1.4	1.4
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	2.9	2.9	1.4	1.4	1.4
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)