

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: P527837

Luminaire Tested: **GALN-SA2D-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527837  
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-827-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 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: 8531 lumens  
Efficiency: N/A  
Efficacy: 68.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

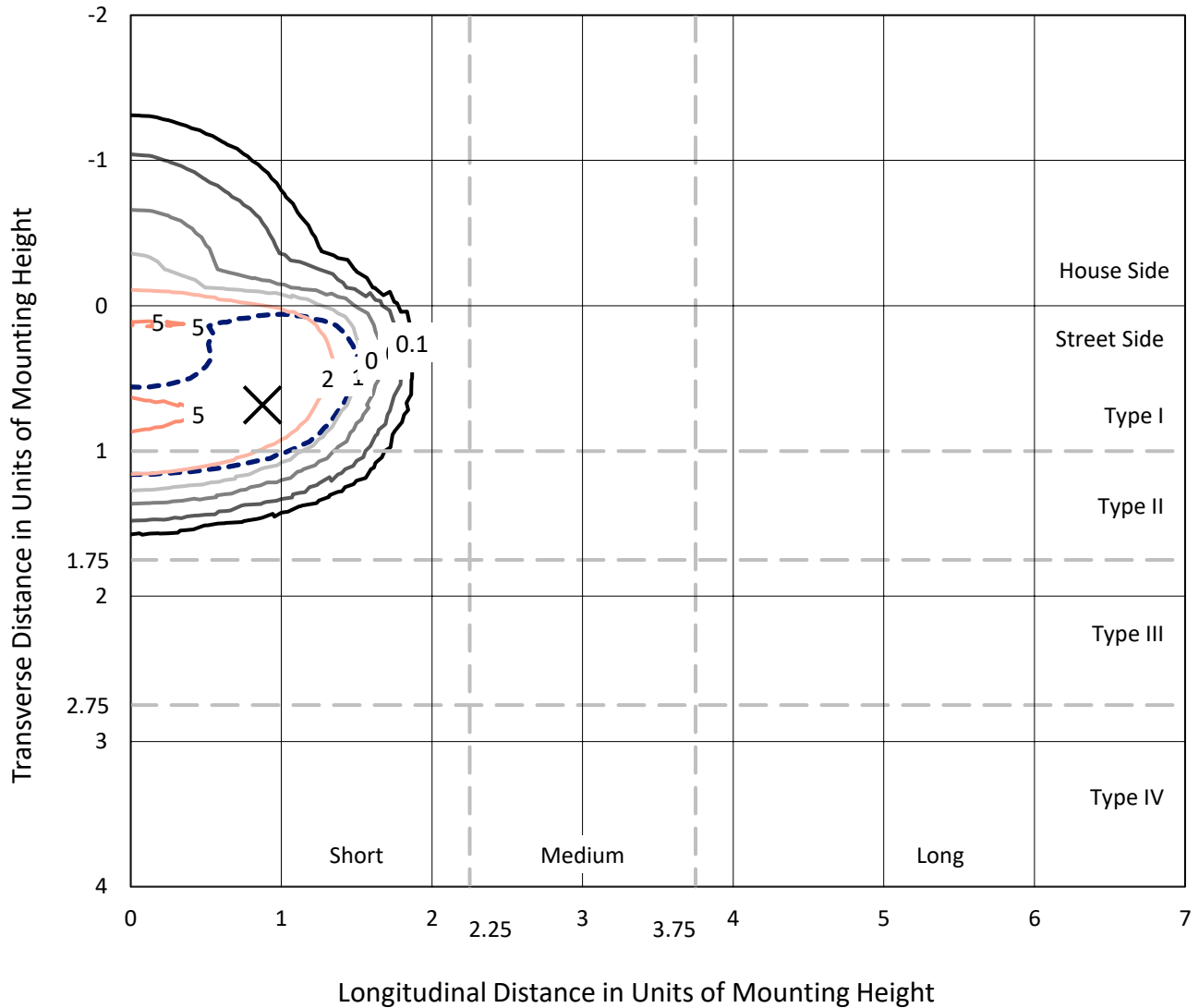
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

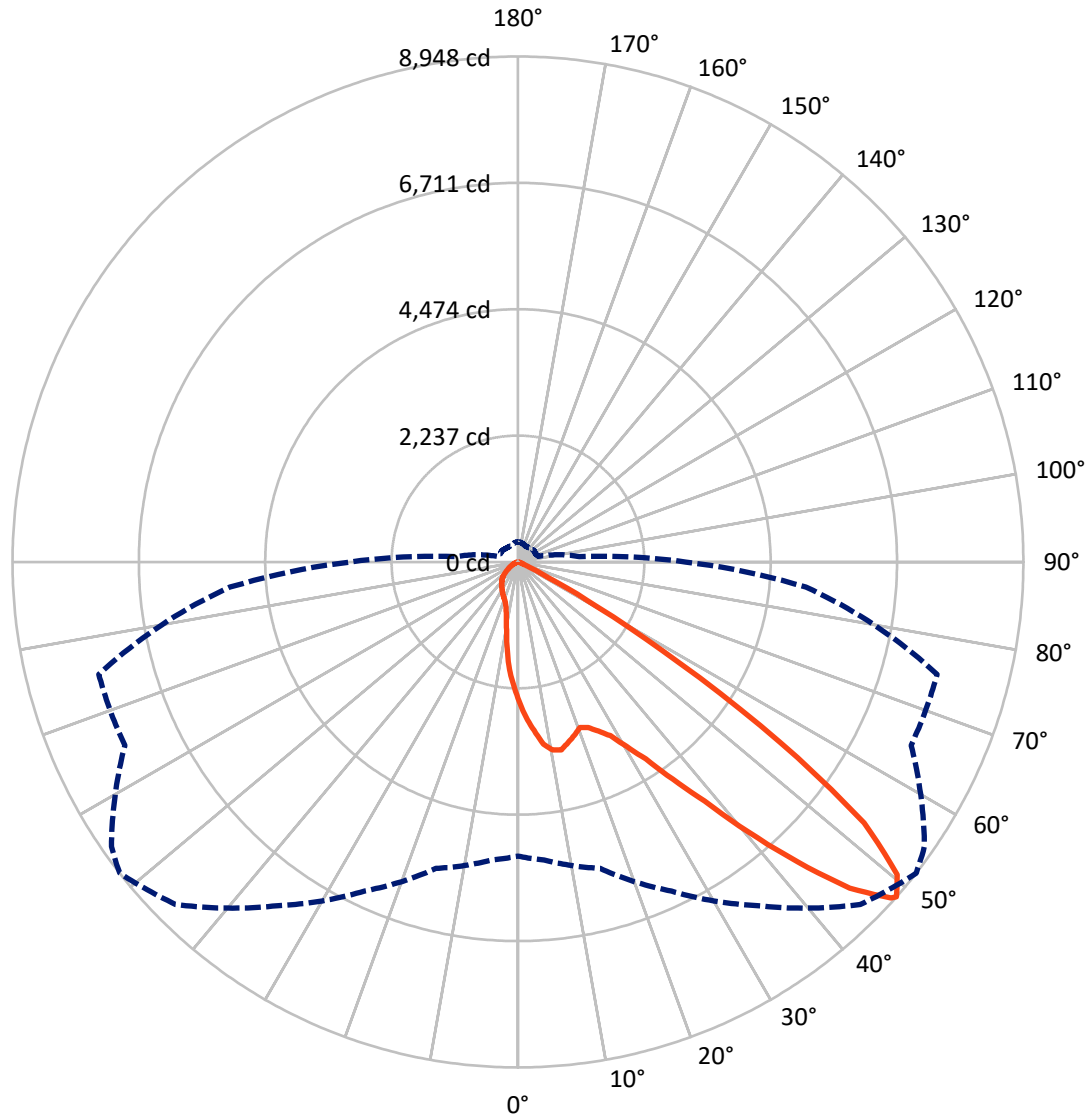
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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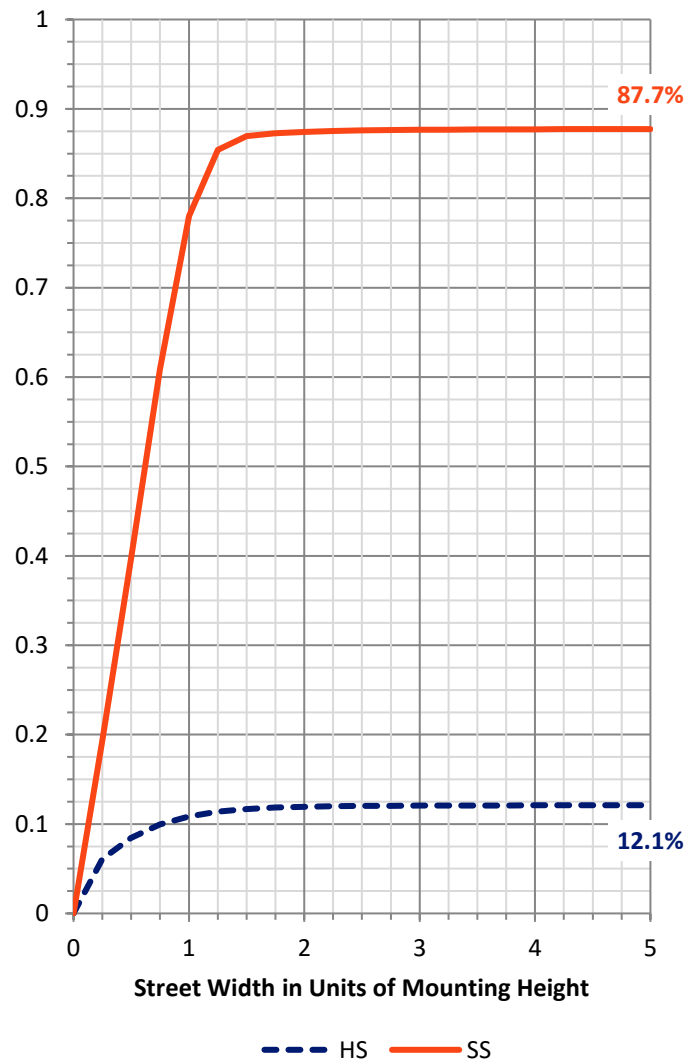
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1038.7	0.0	1038.7
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	7492.3	0.0	7492.3
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	8531.0	0.0	8531.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.5	2.6
10°-20°	589.3	6.9
20°-30°	1006.2	11.8
30°-40°	1852.8	21.7
40°-50°	2877.5	33.7
50°-60°	1731.7	20.3
60°-70°	200.3	2.3
70°-80°	38.8	0.5
80°-90°	9.0	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°	8531.0	100.0
0°-180°	8531.0	100.0

**Coefficient of Utilization**



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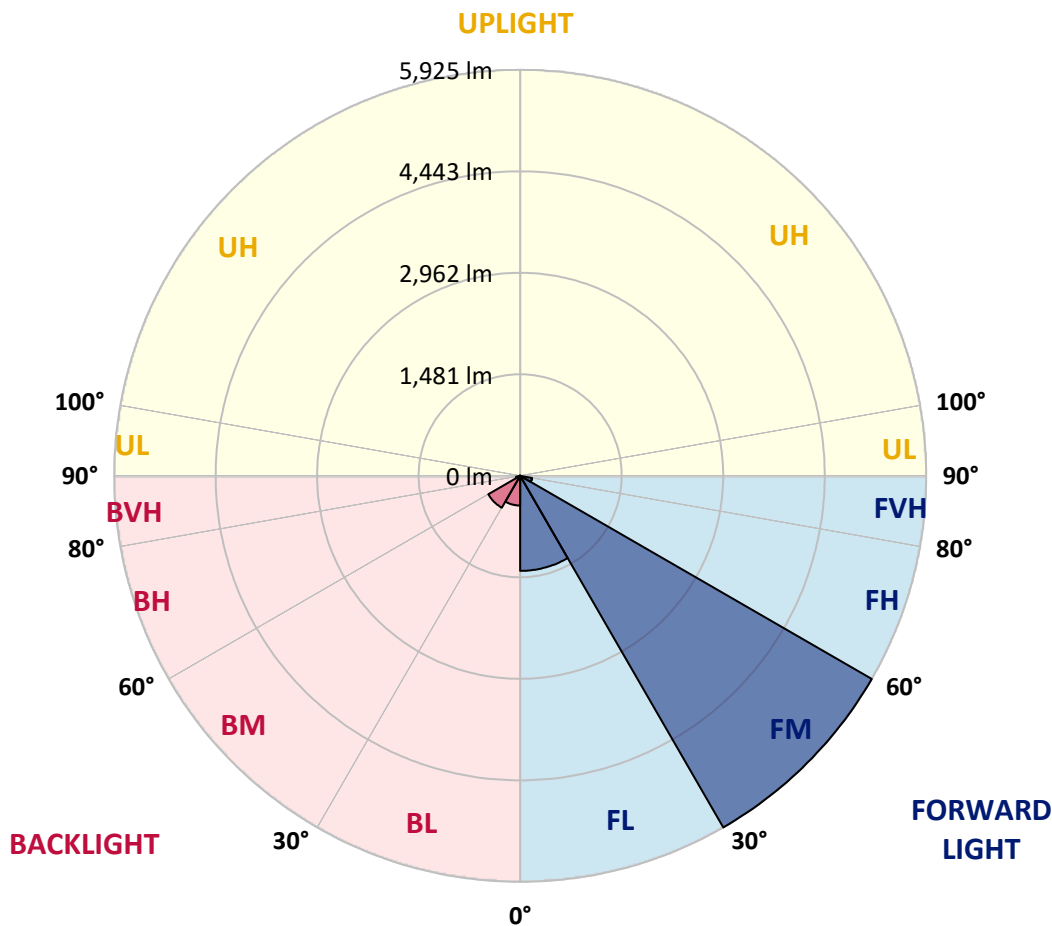
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1387.0	16.3			
FM (30°-60°)	5924.6	69.4			
FH (60°-80°)	176.4	2.1			G0/660
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	433.9	5.1	B1/500		
BM (30°-60°)	537.4	6.3	B1/1000		
BH (60°-80°)	62.7	0.7	B0/110		G0/110
BVH (80°-90°)	4.7	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°	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6
2.5°	2985.9	2917.5	2923.8	2879.0	2852.9	2810.6	2753.4	2742.2	2680.0	2595.4	2509.6
5°	3254.6	3238.4	3259.5	3194.9	3197.3	3127.7	2993.4	2995.9	2852.9	2714.8	2581.8
7.5°	3272.0	3234.7	3255.8	3313.0	3346.6	3334.1	3258.3	3192.4	3056.8	2854.1	2660.1
10°	2930.0	3000.9	3023.2	3117.8	3252.1	3393.8	3385.1	3388.9	3275.7	3010.8	2727.3
12.5°	2724.8	2677.5	2753.4	2810.6	3013.3	3288.1	3413.7	3441.1	3449.8	3162.5	2794.4
15°	2631.5	2631.5	2643.9	2660.1	2806.9	3060.5	3316.7	3396.3	3584.1	3361.5	2900.1
17.5°	2689.9	2687.5	2704.9	2671.3	2726.0	2921.3	3227.2	3318.0	3734.6	3556.8	2983.4
20°	2867.8	2876.5	2865.3	2768.3	2772.0	2918.8	3127.7	3270.7	3836.6	3725.9	3094.1
22.5°	3115.3	3120.2	3056.8	2951.1	2920.0	2992.1	3184.9	3294.3	3918.6	3928.6	3127.7
25°	3401.3	3381.4	3369.0	3219.7	3125.2	3187.4	3314.2	3377.7	3969.6	4102.7	3223.5
27.5°	3798.0	3758.2	3682.4	3549.3	3479.6	3391.4	3482.1	3586.6	4115.1	4346.5	3327.9
30°	4383.8	4348.9	4200.9	4029.3	3846.5	3759.5	3788.1	3845.3	4377.5	4628.8	3466.0
32.5°	5265.5	5192.1	4978.2	4651.1	4402.4	4162.4	4154.9	4215.9	4612.6	5019.3	3630.1
35°	6236.8	6214.4	5899.7	5562.7	5081.4	4710.8	4717.1	4749.4	5062.8	5531.6	3845.3
37.5°	6882.2	7005.3	6805.1	6443.2	6039.0	5509.2	5374.9	5386.1	5680.9	6138.5	4233.3
40°	7380.9	7276.4	7300.0	7215.5	6939.4	6578.7	6281.5	6223.1	6395.9	6810.1	4618.8
42.5°	7163.3	7168.2	7313.7	7514.0	7582.4	7556.2	7252.8	7142.1	7007.8	7359.7	4985.7
45°	6548.9	6677.0	6866.0	7395.8	7860.9	8297.4	8237.7	8053.7	7430.6	7795.0	5197.1
47.5°	5568.9	5564.0	5873.6	6562.6	7596.0	8618.3	8889.4	8760.1	7730.3	7746.5	5153.6
48°	5207.0	5296.6	5616.2	6427.0	7428.1	8571.0	8947.8	8784.9	7679.4	7681.8	5116.3
50°	3849.0	3832.8	4230.8	5225.7	6634.7	8053.7	8701.6	8828.5	7678.1	7354.8	4855.1
52.5°	2033.3	2103.0	2392.7	3285.6	4690.9	6591.2	7675.6	7873.4	7407.0	6820.0	4479.5
55°	864.3	781.0	1003.6	1483.6	2639.0	4403.7	5631.1	6071.4	6262.9	6035.3	3918.6
57.5°	308.4	337.0	388.0	558.4	1109.3	2410.1	3357.8	3699.8	4339.0	4428.5	2670.1
60°	197.7	201.5	217.6	256.2	416.6	929.0	1593.1	1865.4	2155.2	2224.8	1246.1
62.5°	153.0	154.2	161.7	167.9	197.7	360.6	598.2	708.9	736.2	633.0	327.1
65°	128.1	129.3	131.8	131.8	140.5	169.1	208.9	230.1	223.9	221.4	185.3
67.5°	98.2	100.7	105.7	105.7	110.7	103.2	115.7	123.1	139.3	169.1	157.9
70°	77.1	78.3	82.1	84.6	84.6	74.6	83.3	90.8	102.0	125.6	124.4
72.5°	59.7	62.2	64.7	64.7	60.9	51.0	59.7	65.9	73.4	87.1	84.6
75°	46.0	46.0	47.3	38.6	29.8	26.1	36.1	43.5	54.7	57.2	47.3
77.5°	12.4	13.7	12.4	11.2	12.4	18.7	23.6	27.4	34.8	34.8	31.1
80°	0.0	1.2	3.7	7.5	12.4	17.4	21.1	23.6	27.4	29.8	28.6
82.5°	0.0	1.2	3.7	7.5	11.2	13.7	18.7	19.9	22.4	26.1	26.1
85°	0.0	1.2	2.5	5.0	7.5	8.7	8.7	7.5	7.5	6.2	5.0
87.5°	0.0	0.0	1.2	2.5	2.5	3.7	3.7	3.7	3.7	3.7	3.7
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°	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6	2463.6
2.5°	2476.0	2437.5	2379.0	2287.0	2198.7	2141.5	2086.8	2025.9	1992.3	1989.8	1971.1
5°	2505.9	2418.8	2279.6	2121.6	1952.5	1807.0	1660.2	1564.5	1478.7	1431.4	1422.7
7.5°	2522.1	2408.9	2183.8	1918.9	1630.4	1392.9	1228.7	1108.1	1060.8	1026.0	1024.7
10°	2555.6	2391.5	2040.8	1650.3	1293.4	1053.3	940.2	885.5	859.3	849.4	834.5
12.5°	2580.5	2359.1	1894.0	1374.2	1022.3	873.0	823.3	810.8	812.1	817.1	810.8
15°	2615.3	2330.5	1696.3	1128.0	858.1	786.0	786.0	788.5	805.9	808.4	807.1
17.5°	2612.8	2274.6	1492.3	929.0	758.6	748.7	752.4	776.0	787.2	790.9	782.2
20°	2642.7	2222.3	1282.2	793.4	702.6	717.6	742.4	748.7	762.3	764.8	754.9
22.5°	2634.0	2091.8	1086.9	686.5	660.4	689.0	713.8	721.3	717.6	710.1	708.9
25°	2617.8	1979.8	907.8	615.6	629.3	660.4	684.0	670.3	662.8	664.1	665.3
27.5°	2589.2	1838.1	759.9	565.8	587.0	633.0	631.8	626.8	634.2	628.0	634.2
30°	2584.2	1696.3	638.0	521.1	555.9	589.5	592.0	600.7	609.4	598.2	609.4
32.5°	2591.7	1540.8	550.9	493.7	537.2	538.5	565.8	574.6	568.3	543.5	545.9
35°	2648.9	1421.5	487.5	478.8	507.4	508.6	534.8	523.6	496.2	481.3	490.0
37.5°	2769.5	1322.0	457.7	465.1	467.6	483.8	485.0	462.6	465.1	463.9	468.8
40°	2923.8	1246.1	436.5	452.7	450.2	461.4	416.6	429.0	440.2	444.0	446.5
42.5°	3029.5	1191.4	422.8	432.8	427.8	407.9	383.0	395.5	404.2	417.9	420.3
45°	3076.7	1147.9	406.7	398.0	398.0	361.9	351.9	354.4	374.3	389.3	386.8
47.5°	2999.6	1105.6	378.1	351.9	360.6	330.8	319.6	319.6	340.8	359.4	355.7
48°	2969.8	1088.2	379.3	342.0	348.2	325.8	314.6	312.1	335.8	353.2	353.2
50°	2821.8	1023.5	347.0	314.6	302.2	299.7	292.3	294.7	309.7	325.8	325.8
52.5°	2533.3	884.2	293.5	269.9	247.5	262.4	266.1	261.2	268.6	283.5	282.3
55°	2114.2	679.0	235.0	223.9	206.4	222.6	230.1	223.9	216.4	227.6	227.6
57.5°	1354.3	365.6	187.8	190.3	172.9	189.0	195.2	180.3	166.6	175.4	174.1
60°	610.6	218.9	154.2	150.5	139.3	157.9	167.9	150.5	131.8	138.0	144.3
62.5°	228.8	155.5	116.9	114.4	111.9	129.3	134.3	120.6	102.0	105.7	107.0
65°	167.9	136.8	93.3	84.6	89.5	102.0	99.5	85.8	73.4	73.4	75.9
67.5°	143.0	119.4	75.9	65.9	65.9	67.2	62.2	54.7	51.0	53.5	56.0
70°	111.9	94.5	59.7	51.0	46.0	41.0	36.1	34.8	31.1	34.8	33.6
72.5°	72.1	63.4	46.0	38.6	34.8	28.6	23.6	22.4	18.7	17.4	17.4
75°	38.6	38.6	36.1	31.1	27.4	22.4	18.7	14.9	9.9	7.5	7.5
77.5°	27.4	29.8	32.3	29.8	24.9	18.7	14.9	9.9	5.0	2.5	2.5
80°	26.1	29.8	32.3	28.6	24.9	18.7	13.7	7.5	3.7	1.2	1.2
82.5°	23.6	27.4	29.8	26.1	22.4	16.2	12.4	7.5	3.7	1.2	1.2
85°	5.0	6.2	7.5	7.5	8.7	11.2	8.7	6.2	2.5	1.2	1.2
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	2.5	2.5	1.2	1.2	1.2
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)