

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: P527421

Luminaire Tested: **GALN-SA2C-722-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527421  
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-SA2C-722-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2200K, 1050mA 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: 7753 lumens  
Efficiency: N/A  
Efficacy: 71.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

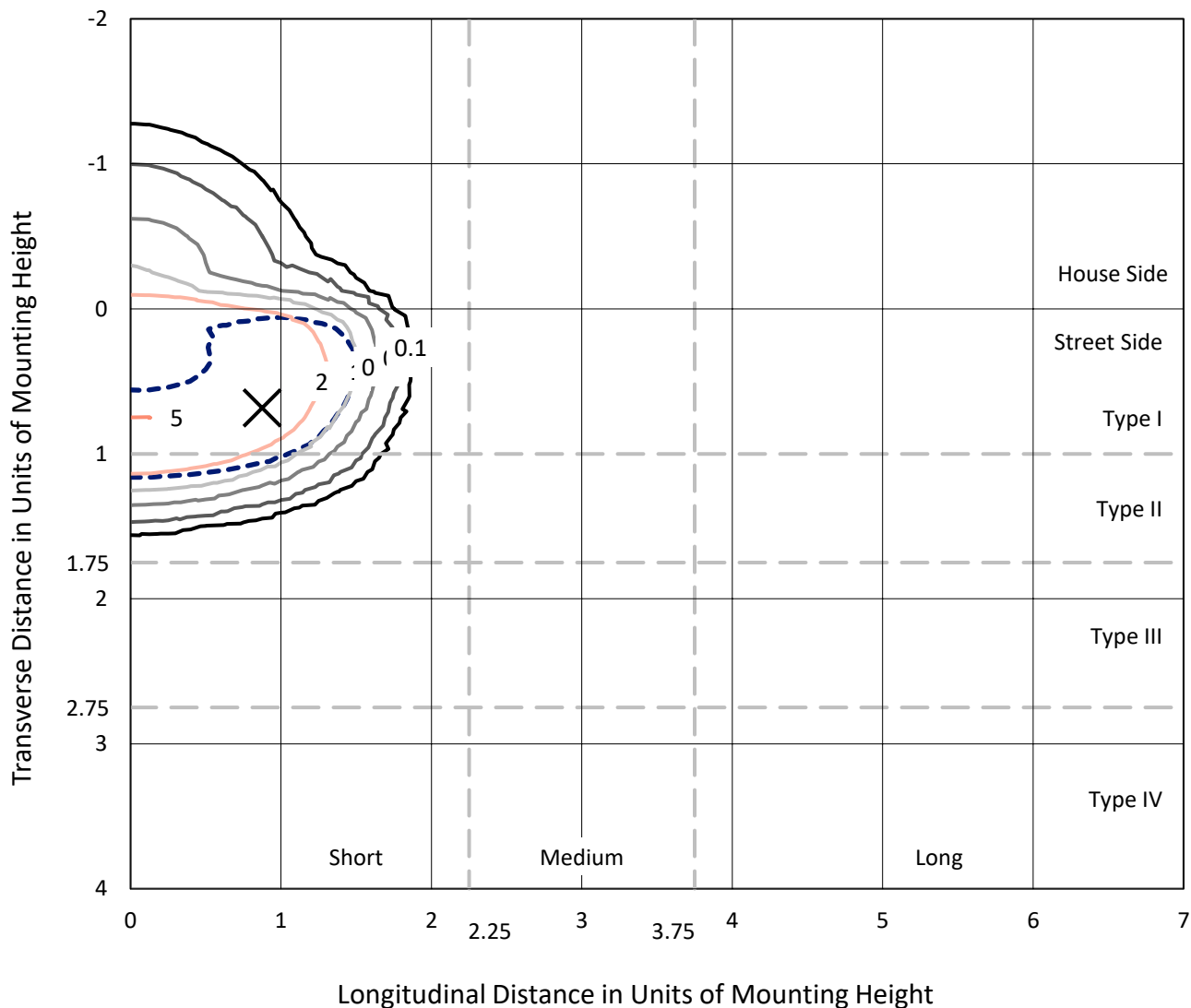
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

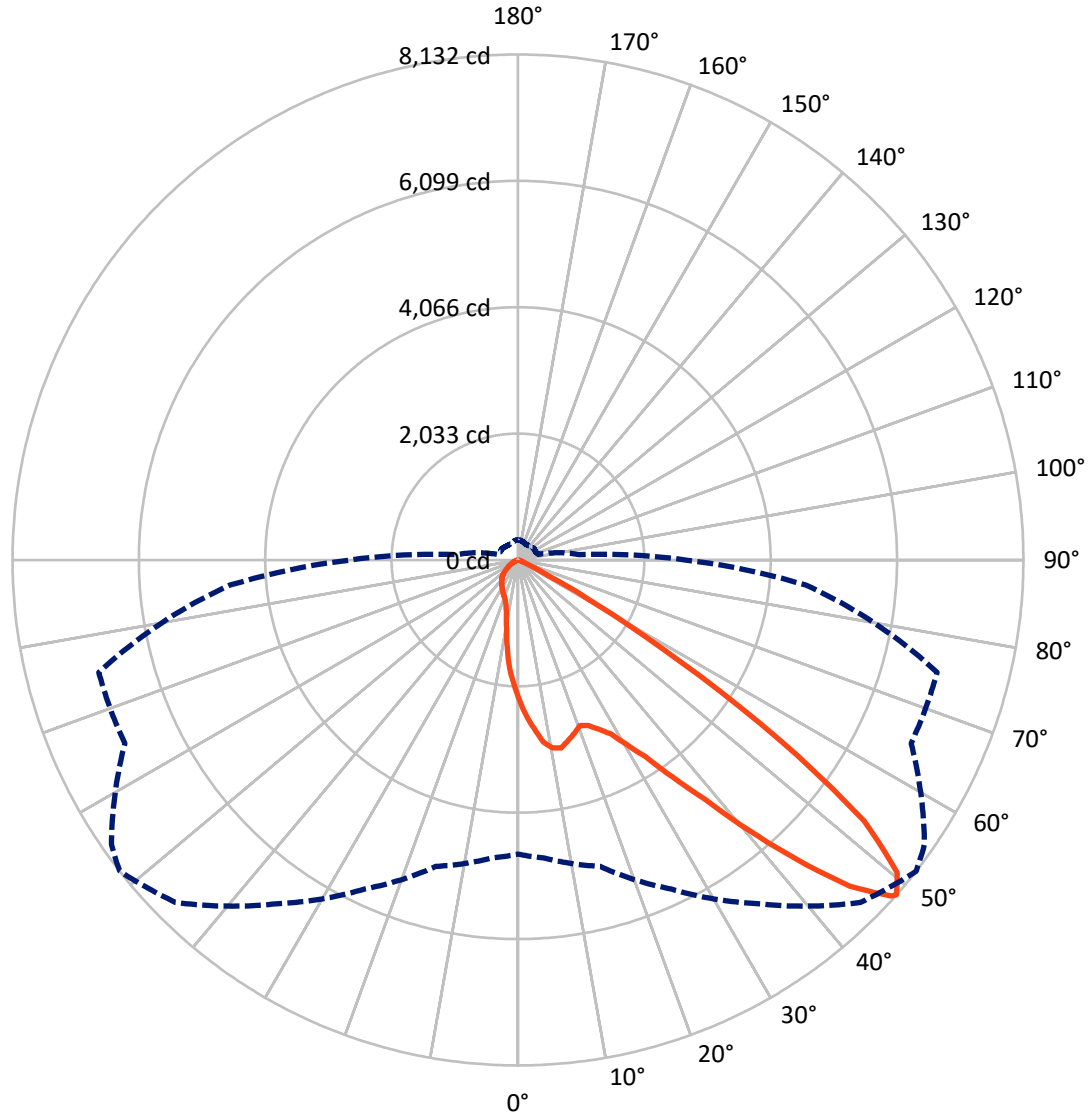
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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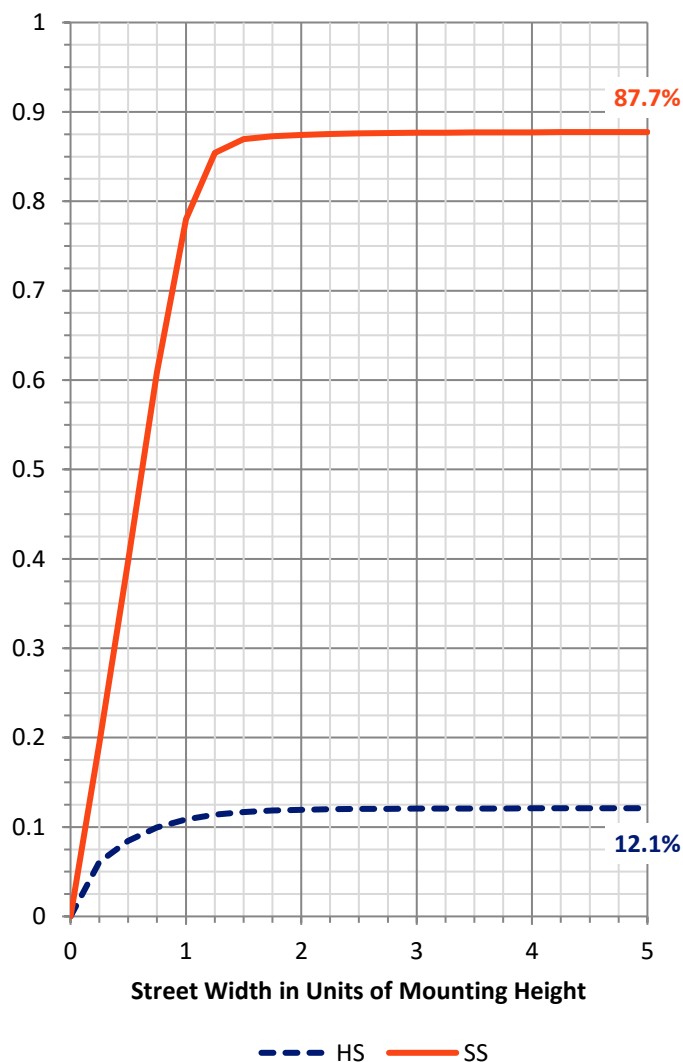
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	944.0	0.0	944.0
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	6809.0	0.0	6809.0
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	7753.0	0.0	7753.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.9	2.6
10°-20°	535.5	6.9
20°-30°	914.4	11.8
30°-40°	1683.9	21.7
40°-50°	2615.0	33.7
50°-60°	1573.8	20.3
60°-70°	182.0	2.3
70°-80°	35.2	0.5
80°-90°	8.2	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°	7753.0	100.0
0°-180°	7753.0	100.0

**Coefficient of Utilization**



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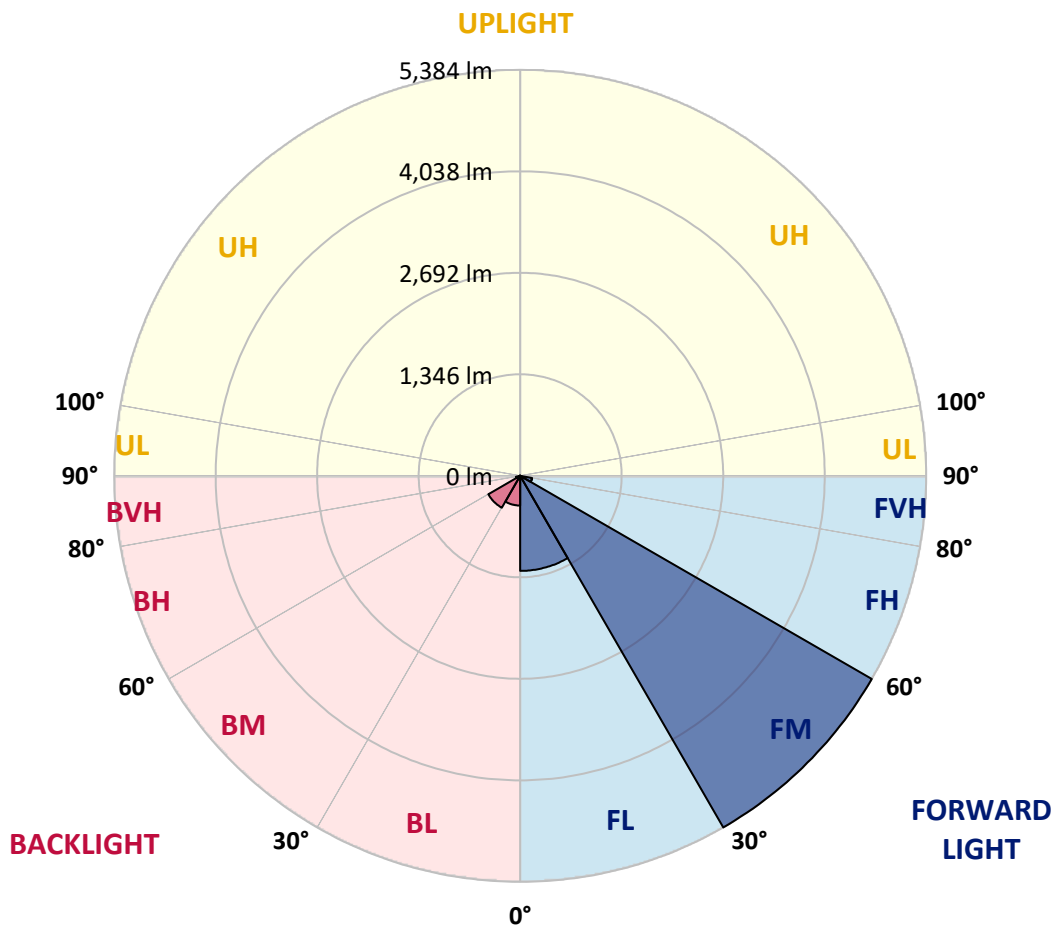
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1260.5	16.3			
FM (30°-60°)	5384.3	69.4			
FH (60°-80°)	160.3	2.1			G0/660
FVH (80°-90°)	3.9	0.1			G0/10
BL (0°-30°)	394.3	5.1	B1/500		
BM (30°-60°)	488.4	6.3	B1/1000		
BH (60°-80°)	57.0	0.7	B0/110		G0/110
BVH (80°-90°)	4.3	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°	2238.9	2238.9	2238.9	2238.9	2238.9	2238.9	2238.9	2238.9	2238.9	2238.9	2238.9
2.5°	2713.6	2651.5	2657.1	2616.4	2592.7	2554.3	2502.3	2492.1	2435.6	2358.7	2280.8
5°	2957.7	2943.1	2962.3	2903.5	2905.8	2842.5	2720.4	2722.7	2592.7	2467.2	2346.3
7.5°	2973.6	2939.7	2958.9	3010.9	3041.4	3030.1	2961.1	2901.2	2778.0	2593.8	2417.5
10°	2662.8	2727.2	2747.5	2833.4	2955.5	3084.3	3076.4	3079.8	2977.0	2736.2	2478.5
12.5°	2476.3	2433.3	2502.3	2554.3	2738.5	2988.3	3102.4	3127.3	3135.2	2874.1	2539.6
15°	2391.5	2391.5	2402.8	2417.5	2550.9	2781.4	3014.3	3086.6	3257.3	3054.9	2635.6
17.5°	2444.6	2442.4	2458.2	2427.7	2477.4	2654.9	2932.9	3015.4	3394.0	3232.4	2711.4
20°	2606.3	2614.2	2604.0	2515.8	2519.2	2652.6	2842.5	2972.4	3486.7	3386.1	2812.0
22.5°	2831.2	2835.7	2778.0	2682.0	2653.7	2719.3	2894.5	2993.9	3561.3	3570.3	2842.5
25°	3091.1	3073.0	3061.7	2926.1	2840.2	2896.7	3012.0	3069.6	3607.6	3728.5	2929.5
27.5°	3451.6	3415.5	3346.5	3225.6	3162.3	3082.1	3164.6	3259.5	3739.9	3950.1	3024.4
30°	3984.0	3952.3	3817.8	3661.9	3495.7	3416.6	3442.6	3494.6	3978.3	4206.6	3149.9
32.5°	4785.3	4718.6	4524.2	4227.0	4000.9	3782.8	3776.0	3831.4	4191.9	4561.5	3299.1
35°	5668.0	5647.6	5361.7	5055.4	4618.0	4281.2	4286.9	4316.3	4601.1	5027.2	3494.6
37.5°	6254.6	6366.4	6184.5	5855.6	5488.3	5006.8	4884.7	4894.9	5162.8	5578.7	3847.2
40°	6707.8	6612.8	6634.3	6557.5	6306.5	5978.8	5708.7	5655.5	5812.6	6189.0	4197.6
42.5°	6510.0	6514.5	6646.7	6828.7	6890.9	6867.1	6591.4	6490.8	6368.7	6688.6	4531.0
45°	5951.7	6068.1	6239.9	6721.3	7144.0	7540.7	7486.5	7319.2	6753.0	7084.1	4723.1
47.5°	5061.1	5056.5	5338.0	5964.1	6903.3	7832.3	8078.7	7961.2	7025.4	7040.1	4683.6
48°	4732.2	4813.5	5104.0	5840.9	6750.7	7789.4	8131.8	7983.8	6979.0	6981.3	4649.7
50°	3498.0	3483.3	3845.0	4749.1	6029.6	7319.2	7908.0	8023.3	6977.9	6684.0	4412.3
52.5°	1847.9	1911.2	2174.5	2986.0	4263.1	5990.1	6975.6	7155.3	6731.5	6198.0	4071.0
55°	785.5	709.8	912.1	1348.3	2398.3	4002.1	5117.6	5517.7	5691.7	5484.9	3561.3
57.5°	280.3	306.3	352.6	507.5	1008.1	2190.3	3051.6	3362.4	3943.3	4024.7	2426.6
60°	179.7	183.1	197.8	232.8	378.6	844.3	1447.8	1695.3	1958.6	2021.9	1132.5
62.5°	139.0	140.1	146.9	152.6	179.7	327.8	543.6	644.2	669.1	575.3	297.2
65°	116.4	117.5	119.8	119.8	127.7	153.7	189.9	209.1	203.4	201.2	168.4
67.5°	89.3	91.5	96.1	96.1	100.6	93.8	105.1	111.9	126.6	153.7	143.5
70°	70.1	71.2	74.6	76.9	76.9	67.8	75.7	82.5	92.7	114.2	113.0
72.5°	54.2	56.5	58.8	58.8	55.4	46.3	54.2	59.9	66.7	79.1	76.9
75°	41.8	41.8	42.9	35.0	27.1	23.7	32.8	39.6	49.7	52.0	42.9
77.5°	11.3	12.4	11.3	10.2	11.3	17.0	21.5	24.9	31.6	31.6	28.3
80°	0.0	1.1	3.4	6.8	11.3	15.8	19.2	21.5	24.9	27.1	26.0
82.5°	0.0	1.1	3.4	6.8	10.2	12.4	17.0	18.1	20.3	23.7	23.7
85°	0.0	1.1	2.3	4.5	6.8	7.9	7.9	6.8	6.8	5.7	4.5
87.5°	0.0	0.0	1.1	2.3	2.3	3.4	3.4	3.4	3.4	3.4	3.4
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°	2238.9	2238.9	2238.9	2238.9	2238.9	2238.9	2238.9	2238.9	2238.9	2238.9	2238.9
2.5°	2250.2	2215.2	2162.1	2078.4	1998.2	1946.2	1896.5	1841.1	1810.6	1808.3	1791.4
5°	2277.4	2198.3	2071.7	1928.1	1774.4	1642.2	1508.8	1421.8	1343.8	1300.9	1293.0
7.5°	2292.1	2189.2	1984.6	1743.9	1481.7	1265.8	1116.6	1007.0	964.1	932.4	931.3
10°	2322.6	2173.4	1854.7	1499.8	1175.4	957.3	854.4	804.7	781.0	771.9	758.4
12.5°	2345.2	2144.0	1721.3	1248.9	929.0	793.4	748.2	736.9	738.0	742.5	736.9
15°	2376.8	2118.0	1541.6	1025.1	779.8	714.3	714.3	716.6	732.4	734.6	733.5
17.5°	2374.6	2067.1	1356.2	844.3	689.4	680.4	683.8	705.2	715.4	718.8	710.9
20°	2401.7	2019.7	1165.2	721.1	638.6	652.1	674.7	680.4	692.8	695.1	686.0
22.5°	2393.8	1901.0	987.8	623.9	600.1	626.1	648.7	655.5	652.1	645.3	644.2
25°	2379.1	1799.3	825.1	559.5	571.9	600.1	621.6	609.2	602.4	603.5	604.7
27.5°	2353.1	1670.4	690.6	514.2	533.5	575.3	574.1	569.6	576.4	570.8	576.4
30°	2348.6	1541.6	579.8	473.6	505.2	535.7	538.0	545.9	553.8	543.6	553.8
32.5°	2355.3	1400.3	500.7	448.7	488.2	489.4	514.2	522.2	516.5	493.9	496.2
35°	2407.3	1291.8	443.0	435.1	461.1	462.3	486.0	475.8	451.0	437.4	445.3
37.5°	2517.0	1201.4	415.9	422.7	425.0	439.7	440.8	420.4	422.7	421.6	426.1
40°	2657.1	1132.5	396.7	411.4	409.1	419.3	378.6	389.9	400.1	403.5	405.7
42.5°	2753.2	1082.7	384.3	393.3	388.8	370.7	348.1	359.4	367.3	379.7	382.0
45°	2796.1	1043.2	369.6	361.7	361.7	328.9	319.8	322.1	340.2	353.8	351.5
47.5°	2726.1	1004.8	343.6	319.8	327.8	300.6	290.5	290.5	309.7	326.6	323.2
48°	2698.9	988.9	344.7	310.8	316.5	296.1	285.9	283.7	305.2	321.0	321.0
50°	2564.4	930.2	315.3	285.9	274.6	272.4	265.6	267.9	281.4	296.1	296.1
52.5°	2302.2	803.6	266.7	245.3	224.9	238.5	241.9	237.3	244.1	257.7	256.6
55°	1921.3	617.1	213.6	203.4	187.6	202.3	209.1	203.4	196.7	206.8	206.8
57.5°	1230.8	332.3	170.7	172.9	157.1	171.8	177.4	163.9	151.4	159.4	158.2
60°	554.9	198.9	140.1	136.8	126.6	143.5	152.6	136.8	119.8	125.5	131.1
62.5°	208.0	141.3	106.2	104.0	101.7	117.5	122.1	109.6	92.7	96.1	97.2
65°	152.6	124.3	84.8	76.9	81.4	92.7	90.4	78.0	66.7	66.7	68.9
67.5°	130.0	108.5	68.9	59.9	59.9	61.0	56.5	49.7	46.3	48.6	50.9
70°	101.7	85.9	54.2	46.3	41.8	37.3	32.8	31.6	28.3	31.6	30.5
72.5°	65.6	57.6	41.8	35.0	31.6	26.0	21.5	20.3	17.0	15.8	15.8
75°	35.0	35.0	32.8	28.3	24.9	20.3	17.0	13.6	9.0	6.8	6.8
77.5°	24.9	27.1	29.4	27.1	22.6	17.0	13.6	9.0	4.5	2.3	2.3
80°	23.7	27.1	29.4	26.0	22.6	17.0	12.4	6.8	3.4	1.1	1.1
82.5°	21.5	24.9	27.1	23.7	20.3	14.7	11.3	6.8	3.4	1.1	1.1
85°	4.5	5.7	6.8	6.8	7.9	10.2	7.9	5.7	2.3	1.1	1.1
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	2.3	2.3	1.1	1.1	1.1
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)