

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: P527529

Luminaire Tested: **GALN-SA2C-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-740-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8252 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

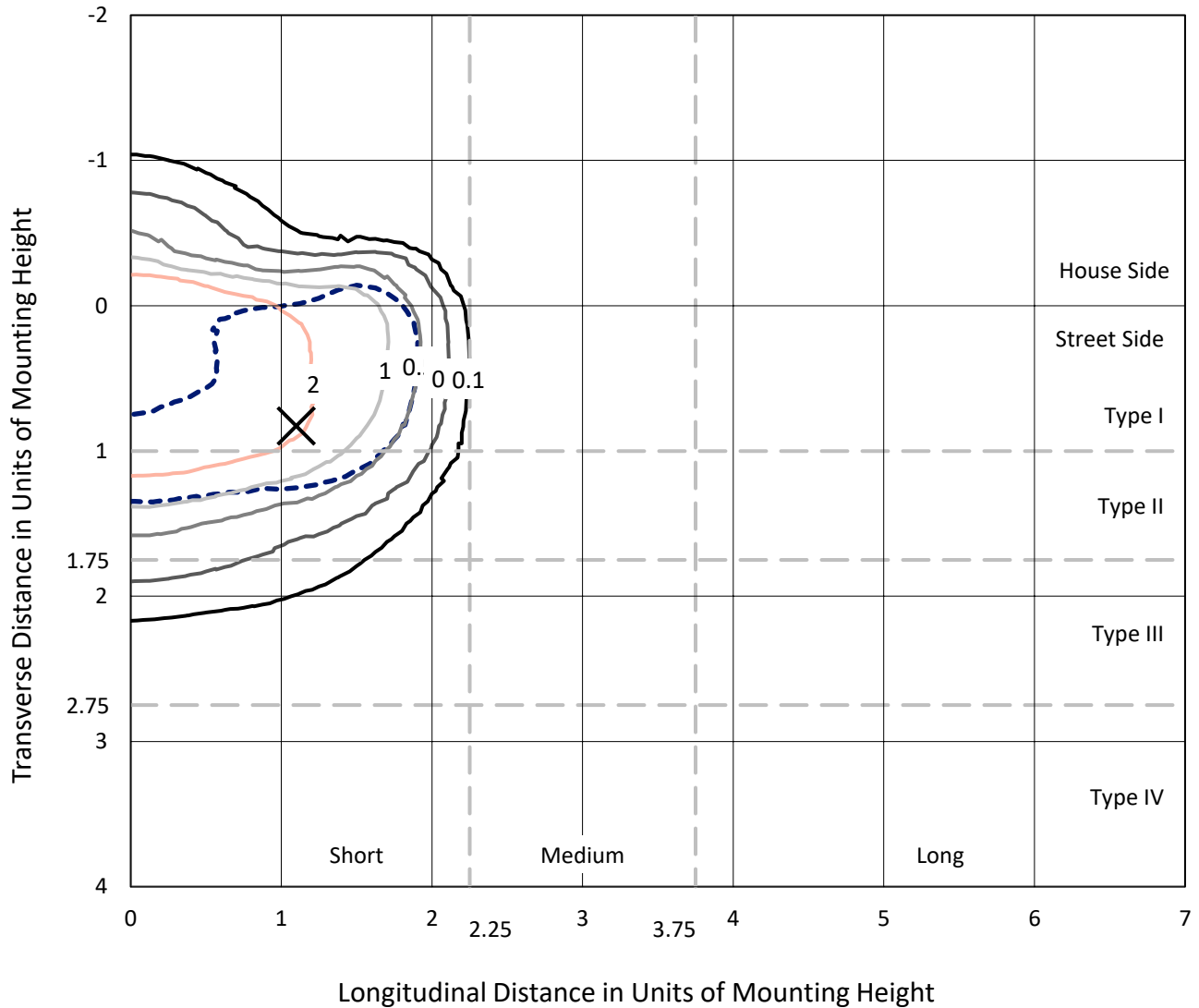
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

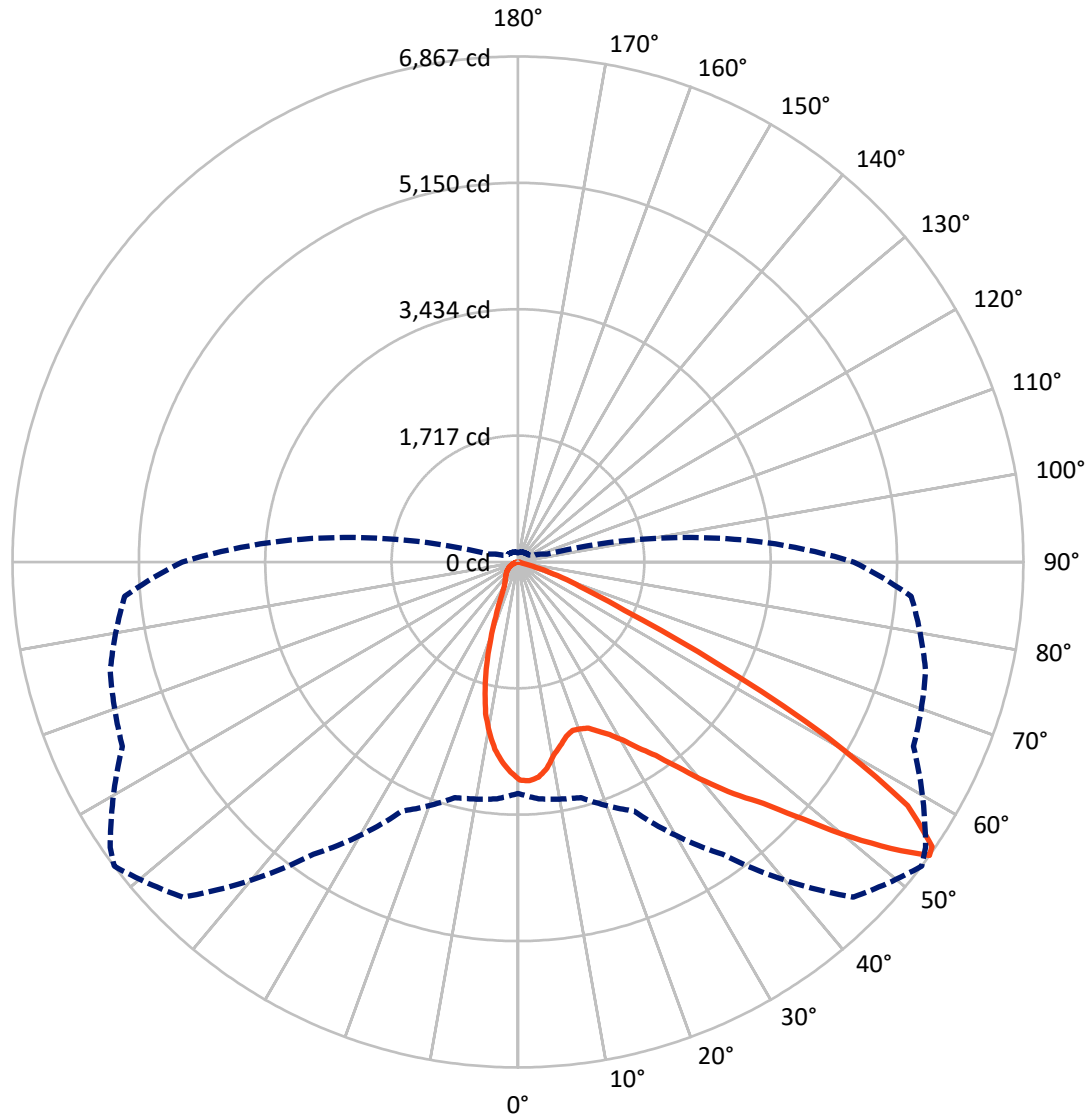
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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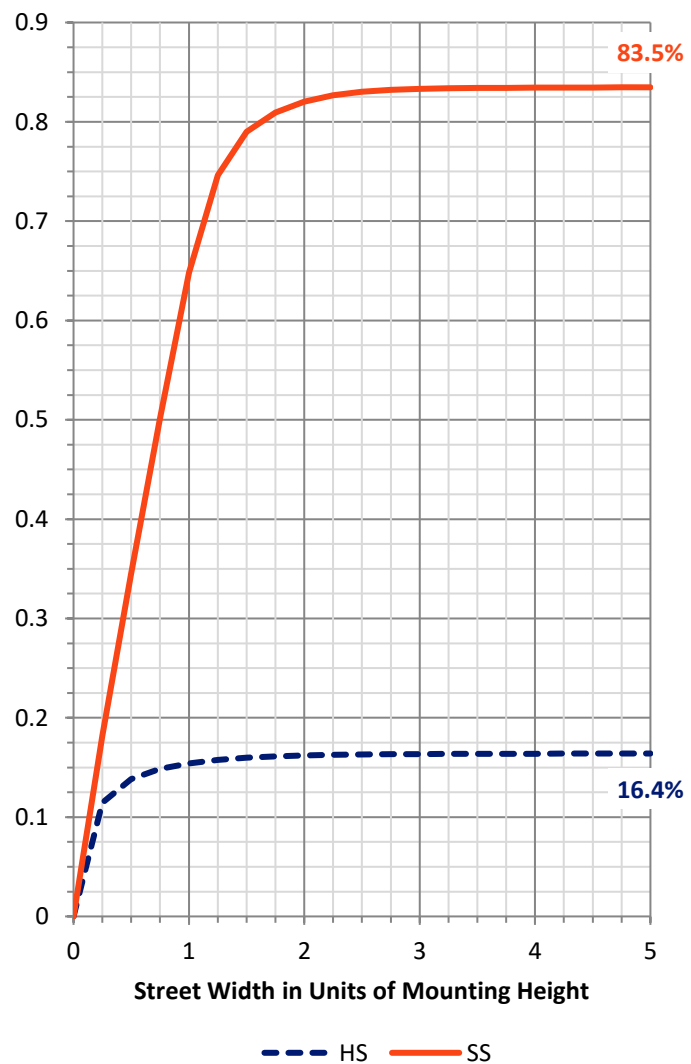
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1365.3	0.0	1365.3
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	6886.7	0.0	6886.7
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	8252.0	0.0	8252.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.3	3.1
10°-20°	583.0	7.1
20°-30°	828.6	10.0
30°-40°	1278.8	15.5
40°-50°	2005.0	24.3
50°-60°	2329.1	28.2
60°-70°	880.1	10.7
70°-80°	83.7	1.0
80°-90°	9.4	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°	8252.0	100.0
0°-180°	8252.0	100.0



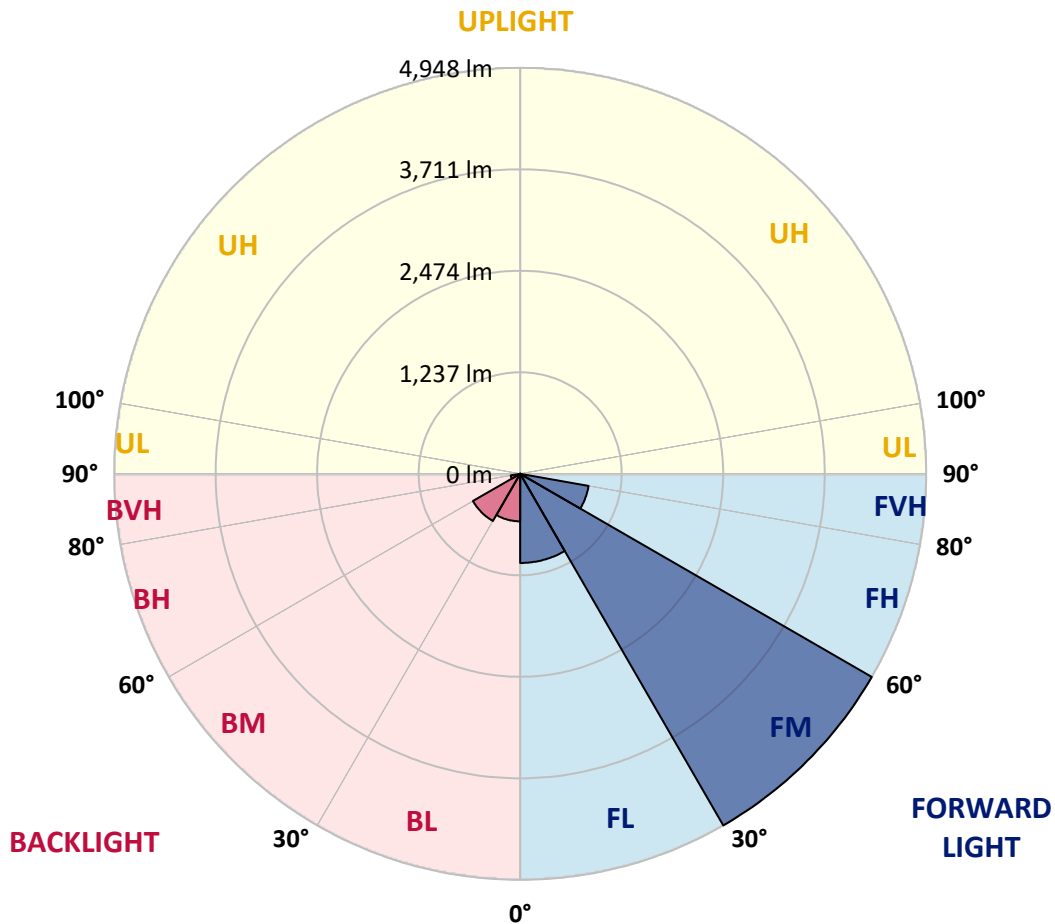
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1086.6	13.2			
FM (30°-60°)	4948.5	60.0			
FH (60°-80°)	846.8	10.3			G1/1800
FVH (80°-90°)	4.9	0.1			G0/10
BL (0°-30°)	579.4	7.0	B2/1000		
BM (30°-60°)	664.4	8.1	B1/1000		
BH (60°-80°)	117.0	1.4	B1/500		G1/500
BVH (80°-90°)	4.6	0.1			G0/10
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°	53°	55°	65°	75°	85°
0°	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0
2.5°	2948.6	2922.5	2948.6	2951.7	2970.1	2987.0	2976.3	3000.9	2987.0	2971.7	2967.1
5°	2710.3	2745.7	2747.2	2802.6	2790.3	2891.7	2936.3	2924.0	2999.3	2994.7	2984.0
7.5°	2496.6	2482.8	2501.2	2565.8	2647.3	2764.1	2828.7	2827.2	2934.8	3011.6	3003.9
10°	2298.3	2296.8	2335.2	2385.9	2455.1	2578.1	2667.3	2711.9	2879.4	2996.3	3013.2
12.5°	2164.6	2158.4	2199.9	2241.4	2350.6	2445.9	2559.7	2581.2	2773.3	2942.5	2970.1
15°	2076.9	2090.8	2093.8	2173.8	2243.0	2369.0	2458.2	2502.8	2724.2	2899.4	3005.5
17.5°	2061.6	2080.0	2081.5	2147.7	2221.4	2327.5	2405.9	2465.9	2682.6	2920.9	3007.0
20°	2092.3	2081.5	2090.8	2132.3	2204.5	2306.0	2419.8	2439.7	2668.8	2931.7	3023.9
22.5°	2179.9	2176.9	2153.8	2187.6	2238.4	2344.4	2452.0	2482.8	2708.8	2987.0	3037.8
25°	2276.8	2293.7	2272.2	2267.6	2302.9	2407.5	2550.4	2590.4	2842.5	3087.0	3080.8
27.5°	2458.2	2441.3	2441.3	2419.8	2410.5	2461.3	2656.5	2722.6	2991.7	3216.1	3130.0
30°	2631.9	2650.4	2636.5	2644.2	2582.7	2578.1	2807.2	2888.6	3256.1	3412.9	3234.5
32.5°	2907.1	2882.5	2905.6	2885.6	2804.1	2721.1	3011.6	3096.2	3575.8	3638.9	3391.4
35°	3136.2	3125.4	3223.8	3220.7	3088.5	3007.0	3228.4	3354.5	3798.8	3909.4	3575.8
37.5°	3462.1	3442.1	3554.3	3608.1	3489.7	3368.3	3538.9	3685.0	4006.3	4126.2	3764.9
40°	3797.2	3847.9	3998.6	4087.8	3961.7	3800.3	3918.7	3963.2	4144.7	4267.6	3894.1
42.5°	4221.5	4295.3	4449.0	4525.9	4515.1	4339.9	4304.5	4303.0	4244.6	4227.7	3989.4
45°	4628.9	4601.2	4838.0	5005.6	5140.8	5090.1	4676.6	4630.4	4402.9	4287.6	4014.0
47.5°	4807.2	4798.0	4959.4	5257.7	5718.9	5781.9	5217.7	5039.4	4670.4	4539.7	4147.7
50°	4576.6	4624.3	4784.2	5114.7	5821.9	6303.1	5881.8	5642.0	4982.5	4847.2	4464.4
52.5°	3823.3	3855.6	4007.8	4427.5	5471.4	6610.5	6518.3	6379.9	5555.9	5331.5	5016.3
54°	3143.8	3229.9	3313.0	3734.2	4847.2	6439.9	6867.3	6761.2	5929.5	5734.3	5363.8
55°	2738.0	2788.7	2848.7	3268.4	4415.2	6150.9	6827.3	6836.5	6180.1	5860.3	5597.4
57.5°	2000.1	2035.4	1973.9	2160.0	3031.6	4994.8	6244.6	6493.7	6518.3	6049.4	5740.4
60°	1528.1	1543.5	1474.3	1503.5	1884.8	3428.3	4830.3	5130.1	5880.3	5286.9	4862.6
62.5°	1185.3	1188.4	1186.8	1237.6	1299.0	2017.0	3020.9	3286.8	4053.9	3754.2	3302.2
65°	873.2	859.4	884.0	1037.7	1108.4	1268.3	1591.1	1784.8	2203.0	1860.2	1329.8
67.5°	565.7	570.4	594.9	771.7	950.1	973.1	979.3	963.9	965.4	531.9	333.6
70°	339.8	347.4	339.8	436.6	679.5	697.9	638.0	622.6	485.8	126.1	124.5
72.5°	201.4	190.6	170.6	187.6	282.9	338.2	304.4	302.9	190.6	73.8	73.8
75°	84.6	76.9	63.0	56.9	75.3	72.3	72.3	64.6	50.7	49.2	46.1
77.5°	16.9	16.9	12.3	13.8	18.4	21.5	26.1	26.1	30.7	30.7	29.2
80°	0.0	1.5	4.6	9.2	13.8	20.0	23.1	23.1	26.1	26.1	21.5
82.5°	0.0	1.5	4.6	9.2	12.3	18.4	23.1	23.1	26.1	27.7	23.1
85°	0.0	1.5	4.6	7.7	12.3	15.4	15.4	13.8	10.8	9.2	6.1
87.5°	0.0	0.0	1.5	3.1	1.5	3.1	3.1	3.1	3.1	3.1	3.1
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°	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0	2964.0
2.5°	2977.8	2976.3	2939.4	2879.4	2865.6	2814.9	2808.7	2778.0	2794.9	2738.0	2731.8
5°	2953.2	2934.8	2890.2	2851.8	2739.5	2659.6	2596.6	2519.7	2475.1	2482.8	2453.6
7.5°	2988.6	2940.9	2862.5	2728.8	2591.9	2452.0	2376.7	2219.9	2163.0	2078.5	2066.2
10°	2951.7	2916.3	2794.9	2573.5	2384.4	2183.0	2006.2	1832.5	1700.3	1643.4	1631.1
12.5°	2948.6	2887.1	2684.2	2438.2	2164.6	1875.5	1618.8	1402.0	1271.4	1197.6	1180.7
15°	2900.9	2827.2	2559.7	2229.1	1850.9	1491.2	1211.4	1002.3	902.4	859.4	871.7
17.5°	2905.6	2794.9	2435.1	2007.8	1541.9	1094.6	827.1	719.5	693.3	704.1	704.1
20°	2900.9	2722.6	2284.5	1752.6	1180.7	759.4	607.2	568.8	585.7	619.5	611.9
22.5°	2876.4	2688.8	2146.1	1483.5	868.6	562.7	487.3	488.9	515.0	556.5	565.7
25°	2894.8	2613.5	1970.9	1211.4	633.4	448.9	422.8	433.5	461.2	491.9	498.1
27.5°	2881.0	2559.7	1787.9	940.8	462.7	385.9	384.3	396.6	408.9	432.0	432.0
30°	2896.3	2510.5	1608.1	699.5	381.3	353.6	347.4	356.7	369.0	373.6	372.0
32.5°	2953.2	2473.6	1400.5	522.7	336.7	322.8	322.8	322.8	321.3	327.5	329.0
35°	3077.7	2479.7	1217.6	404.3	307.5	296.7	292.1	285.9	282.9	285.9	287.5
37.5°	3213.0	2476.6	1028.5	344.4	285.9	276.7	266.0	256.7	255.2	258.3	253.7
40°	3273.0	2505.9	853.2	309.0	266.0	255.2	238.3	230.6	232.1	235.2	232.1
42.5°	3354.5	2515.1	739.5	281.3	247.5	230.6	219.8	210.6	209.1	213.7	212.2
45°	3352.9	2462.8	619.5	266.0	230.6	212.2	198.3	190.6	190.6	193.7	195.2
47.5°	3451.3	2455.1	531.9	252.1	218.3	199.9	182.9	176.8	175.3	175.3	172.2
50°	3680.4	2562.7	464.3	236.7	202.9	186.0	172.2	164.5	158.3	155.3	153.7
52.5°	4127.7	2897.9	412.0	218.3	186.0	172.2	159.9	153.7	146.0	138.4	136.8
54°	4561.3	3243.8	408.9	202.9	172.2	163.0	152.2	149.1	139.9	129.1	126.1
55°	4756.5	3445.2	419.7	190.6	163.0	156.8	147.6	144.5	135.3	123.0	121.4
57.5°	4917.9	3523.6	413.5	158.3	147.6	146.0	138.4	133.7	123.0	106.1	103.0
60°	3958.6	2664.2	296.7	139.9	135.3	132.2	126.1	123.0	109.2	90.7	89.2
62.5°	2501.2	1532.7	189.1	123.0	118.4	113.8	106.1	103.0	90.7	72.3	67.6
65°	1065.4	634.9	127.6	109.2	101.5	93.8	87.6	83.0	72.3	53.8	52.3
67.5°	276.7	226.0	106.1	95.3	84.6	73.8	69.2	61.5	49.2	36.9	35.4
70°	124.5	113.8	89.2	79.9	67.6	56.9	50.7	43.0	32.3	24.6	23.1
72.5°	73.8	72.3	67.6	60.0	50.7	43.0	36.9	29.2	21.5	13.8	13.8
75°	46.1	44.6	46.1	41.5	35.4	32.3	27.7	20.0	12.3	6.1	6.1
77.5°	27.7	27.7	27.7	26.1	24.6	24.6	20.0	12.3	6.1	1.5	1.5
80°	21.5	21.5	23.1	21.5	21.5	21.5	16.9	9.2	3.1	0.0	0.0
82.5°	21.5	23.1	26.1	24.6	21.5	18.4	15.4	9.2	3.1	0.0	0.0
85°	6.1	4.6	7.7	10.8	15.4	13.8	10.8	7.7	3.1	0.0	0.0
87.5°	3.1	3.1	3.1	3.1	1.5	1.5	1.5	1.5	1.5	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)