

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: P646778

Luminaire Tested: **GALN-SA2C-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646778  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-835-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6473.8 lumens  
Efficiency: N/A  
Efficacy: 59.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

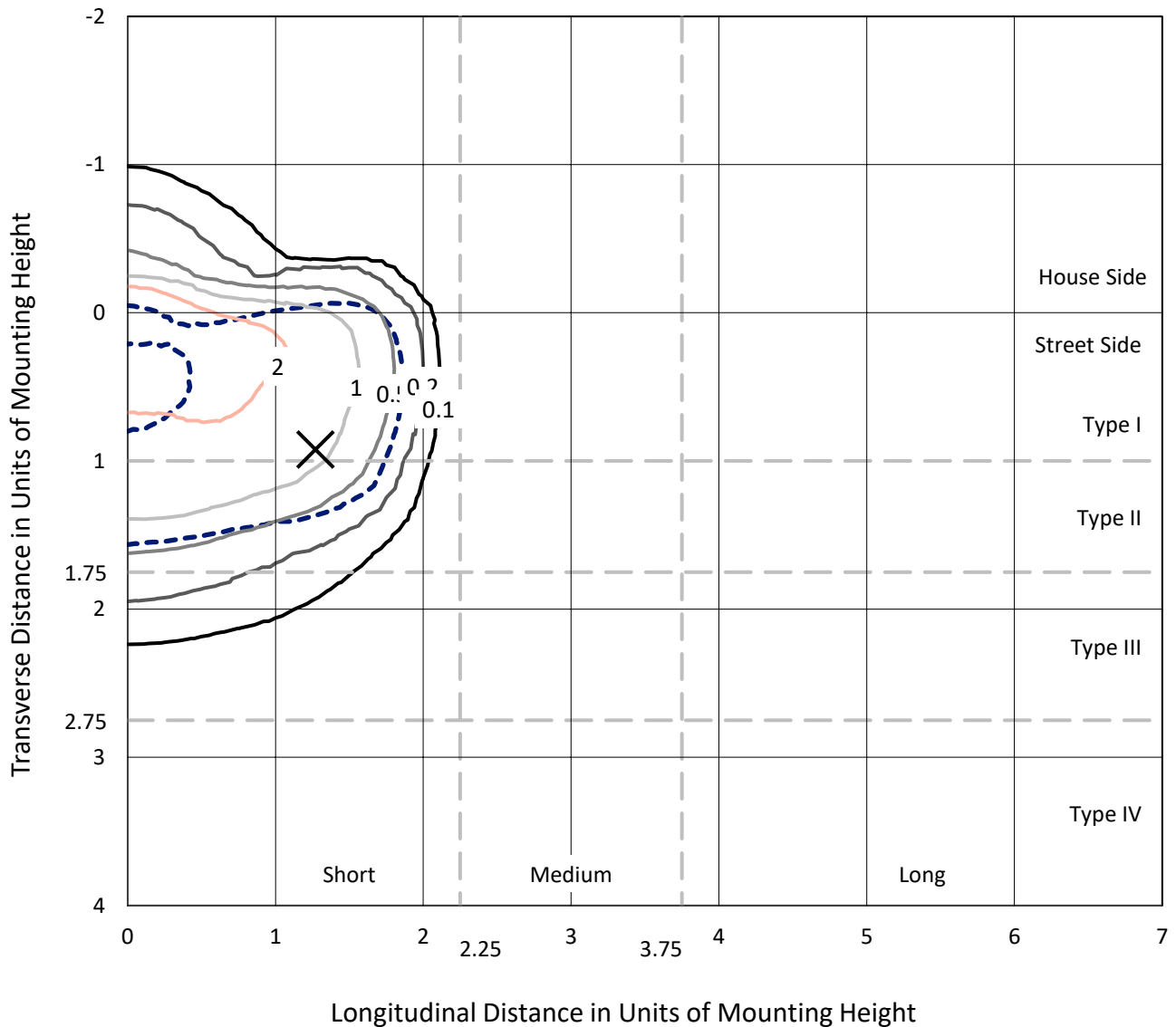
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

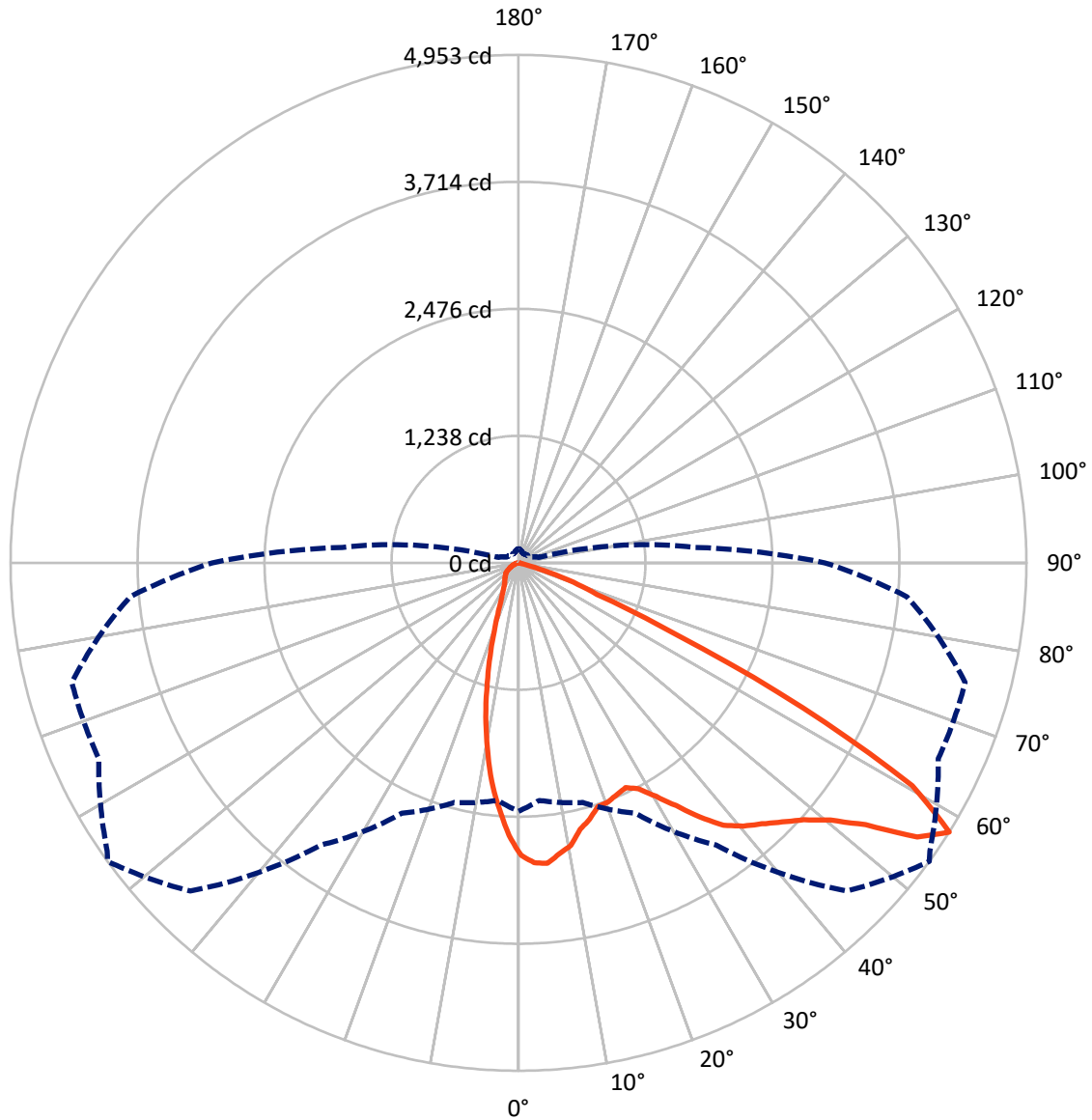
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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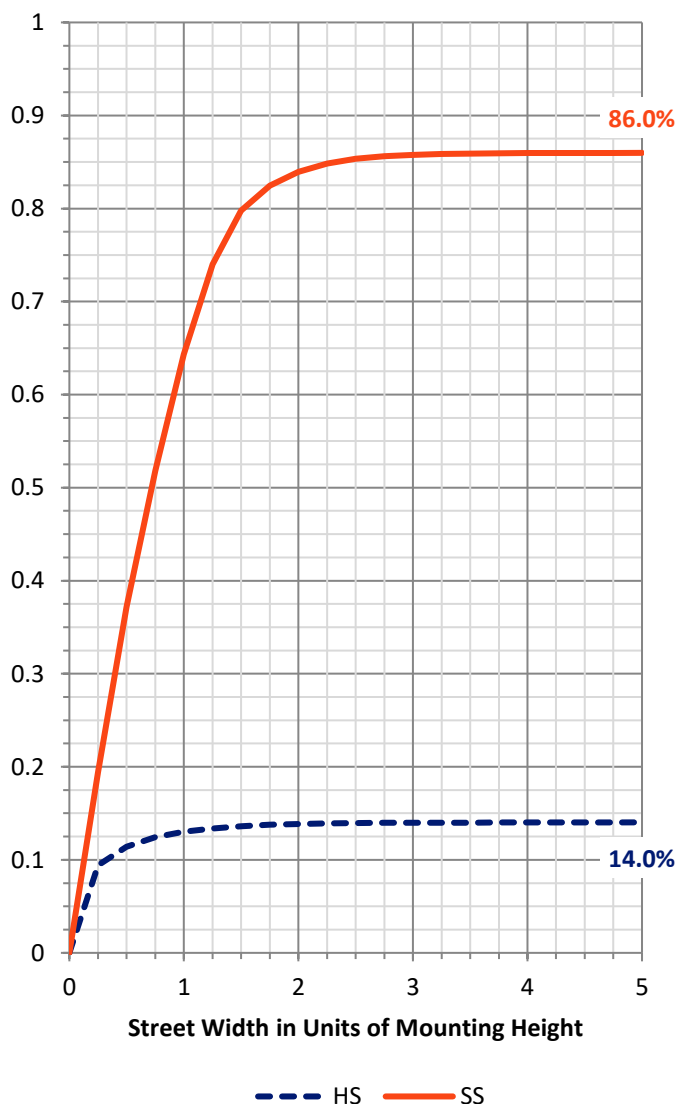
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	914.8	0.0	914.8
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	5559.0	0.0	5559.0
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	6473.8	0.0	6473.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.6	3.7
10°-20°	509.5	7.9
20°-30°	675.2	10.4
30°-40°	981.2	15.2
40°-50°	1455.1	22.5
50°-60°	1819.5	28.1
60°-70°	717.7	11.1
70°-80°	71.4	1.1
80°-90°	5.6	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°	6473.8	100.0
0°-180°	6473.8	100.0

**Coefficient of Utilization**

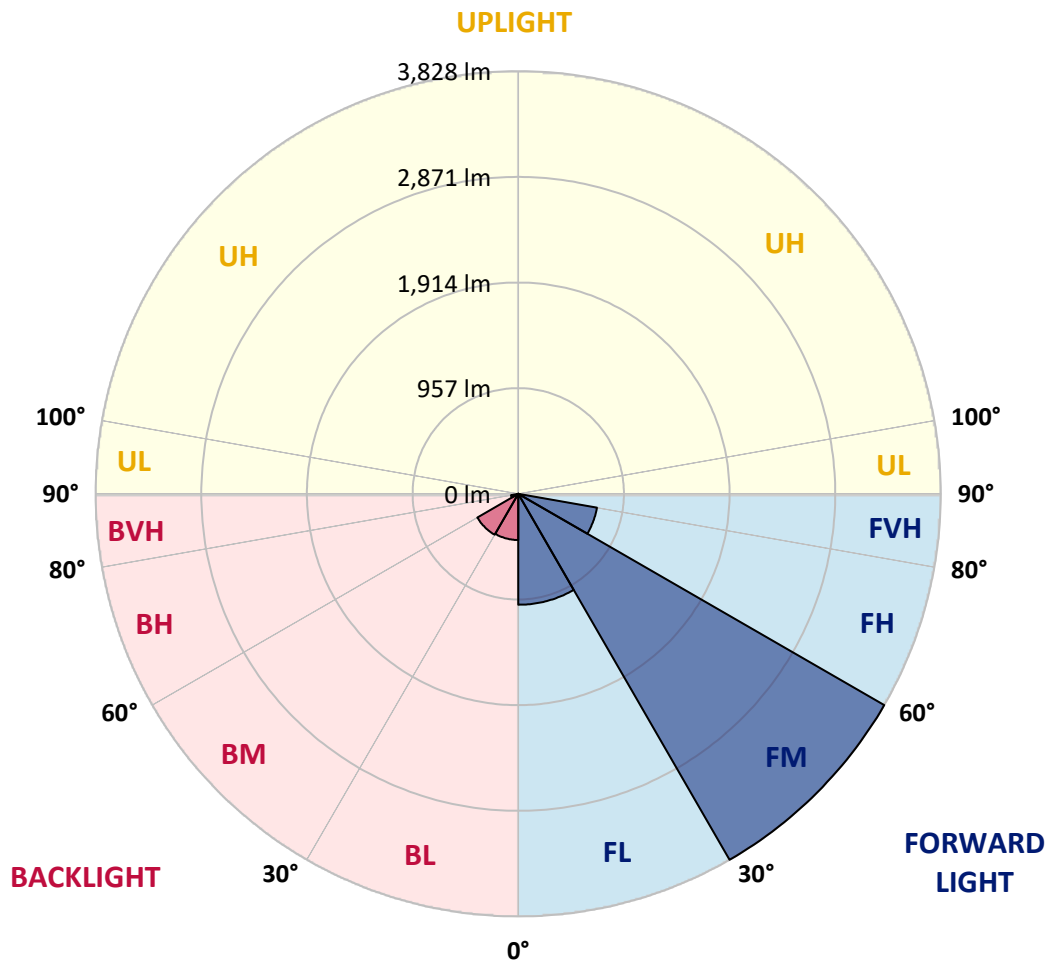


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1004.9	15.5			
FM (30°-60°)	3828.0	59.1			
FH (60°-80°)	723.6	11.2			G1/1800
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	418.4	6.5	B1/500		
BM (30°-60°)	427.8	6.6	B1/1000		
BH (60°-80°)	65.6	1.0	B0/110		G0/110
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2851.8	2851.8	2851.8	2851.8	2851.8	2851.8	2851.8	2851.8	2851.8	2851.8	2851.8
2.5°	3017.9	2986.7	2989.0	2978.2	2963.7	2974.6	2927.6	2938.5	2937.3	2873.5	2831.3
5°	2942.1	2975.8	2940.9	2969.8	2942.1	2972.2	2943.3	2921.6	2886.8	2839.8	2761.6
7.5°	2813.3	2780.8	2790.5	2826.6	2832.6	2900.0	2863.8	2891.5	2877.1	2784.4	2677.2
10°	2554.5	2547.3	2595.4	2643.6	2702.5	2774.8	2802.4	2786.8	2776.0	2741.0	2597.8
12.5°	2355.8	2376.3	2375.1	2454.5	2554.5	2595.4	2667.6	2665.3	2725.4	2660.4	2523.1
15°	2166.9	2177.7	2228.3	2277.6	2388.4	2505.1	2594.2	2606.2	2678.5	2632.8	2465.4
17.5°	2051.3	2035.6	2075.3	2134.4	2247.5	2400.4	2499.1	2528.0	2626.7	2617.1	2399.2
20°	1936.9	1936.9	1969.4	2039.2	2142.8	2314.9	2490.6	2482.3	2626.7	2599.0	2328.2
22.5°	1898.4	1917.6	1926.1	1979.0	2101.8	2250.0	2454.5	2470.2	2647.2	2590.6	2296.9
25°	1951.4	1926.1	1928.5	1970.7	2086.2	2218.6	2428.1	2463.0	2684.5	2632.8	2271.6
27.5°	1959.8	1985.1	1992.3	2021.2	2098.2	2228.3	2494.2	2565.3	2777.1	2731.4	2278.8
30°	2033.2	2058.5	2057.3	2106.7	2159.6	2306.5	2642.4	2656.8	2968.6	2855.4	2323.3
32.5°	2122.3	2148.8	2157.2	2215.0	2257.2	2449.8	2822.9	2860.2	3152.7	3050.4	2440.1
35°	2233.0	2223.4	2261.9	2319.7	2410.0	2659.2	3043.2	3105.8	3351.4	3303.2	2560.5
37.5°	2371.5	2359.5	2396.8	2490.6	2613.5	2907.2	3246.6	3287.6	3495.9	3538.0	2783.2
40°	2469.0	2473.8	2587.0	2713.4	2843.4	3143.1	3375.4	3415.2	3596.9	3757.1	2951.8
42.5°	2631.5	2661.7	2797.7	2951.8	3087.8	3320.1	3480.2	3518.7	3643.9	3932.9	3179.2
45°	2867.5	2854.2	3004.7	3176.9	3327.3	3504.3	3604.2	3590.9	3671.6	4107.4	3322.5
47.5°	3170.8	3173.3	3273.2	3420.0	3576.5	3664.4	3742.7	3695.7	3729.4	4291.5	3513.9
50°	3377.9	3395.9	3476.6	3627.1	3705.3	3840.1	3940.1	3911.2	3900.4	4402.3	3634.3
52.5°	3430.9	3485.1	3528.4	3716.1	3899.1	4112.2	4239.8	4301.2	4108.6	4439.6	3787.1
55°	3031.1	3079.3	3232.2	3489.8	3972.6	4543.2	4718.9	4720.2	4380.7	4605.8	3894.3
57.5°	2423.2	2325.7	2419.6	2692.9	3358.6	4525.1	4952.5	4895.9	4516.7	4508.3	3801.6
60°	1675.7	1651.7	1657.6	1766.0	2324.6	3599.4	4413.1	4486.6	4159.1	3907.6	3009.5
62.5°	1327.8	1307.3	1280.8	1268.8	1443.4	2242.7	3113.1	3216.6	2908.4	2534.0	1784.1
65°	1040.1	1028.1	1031.7	1079.8	1078.6	1272.5	1702.2	1660.0	1329.0	982.3	560.9
67.5°	701.8	719.9	734.3	880.0	954.6	886.0	822.2	798.1	432.1	181.8	124.0
70°	394.9	397.3	412.9	550.1	724.7	687.4	567.0	567.0	215.5	66.2	71.0
72.5°	215.5	208.3	193.8	237.2	322.6	327.5	252.8	220.3	63.8	43.3	39.7
75°	104.8	103.5	89.1	73.4	69.8	57.8	44.6	41.0	28.9	27.7	24.0
77.5°	21.7	20.4	10.8	10.8	12.1	13.2	16.8	16.8	20.4	20.4	16.8
80°	0.0	0.0	1.2	4.8	8.5	12.1	14.4	14.4	16.8	16.8	13.2
82.5°	0.0	0.0	1.2	3.6	7.2	10.8	13.2	14.4	16.8	18.1	14.4
85°	0.0	0.0	0.0	2.4	6.0	8.5	7.2	7.2	6.0	4.8	2.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2851.8	2851.8	2851.8	2851.8	2851.8	2851.8	2851.8	2851.8	2851.8	2851.8	2851.8
2.5°	2809.7	2807.3	2751.9	2720.6	2664.0	2614.7	2575.0	2546.1	2546.1	2528.0	2511.2
5°	2730.2	2709.7	2591.8	2515.9	2408.8	2329.3	2275.2	2233.0	2166.9	2184.9	2113.9
7.5°	2631.5	2579.8	2423.2	2307.7	2159.6	2046.4	1930.9	1828.6	1729.9	1685.3	1709.4
10°	2525.6	2435.3	2224.7	2041.7	1857.5	1650.4	1515.6	1351.8	1250.8	1244.7	1218.3
12.5°	2413.6	2311.3	2054.9	1802.1	1560.1	1311.0	1105.1	952.2	883.6	807.7	822.2
15°	2329.3	2177.7	1865.9	1561.3	1240.0	988.3	781.3	663.3	598.3	580.2	574.3
17.5°	2237.9	2075.3	1673.3	1304.9	972.6	711.4	562.2	505.6	480.3	480.3	476.7
20°	2142.8	1959.8	1481.9	1066.6	729.5	530.9	450.2	432.1	431.0	429.8	429.8
22.5°	2080.2	1827.4	1308.5	847.4	550.1	424.9	391.3	384.0	388.8	403.2	403.2
25°	2014.0	1699.7	1117.1	653.6	426.1	364.7	345.5	350.3	362.4	375.6	370.8
27.5°	1946.5	1616.7	936.5	512.8	349.1	319.0	311.8	322.6	335.8	347.9	344.3
30°	1930.9	1527.6	765.6	388.8	299.7	278.0	282.9	292.5	305.8	310.6	315.4
32.5°	1955.0	1457.8	627.2	319.0	261.2	255.2	255.2	260.0	268.4	279.3	275.7
35°	2023.6	1418.1	496.0	276.9	239.5	233.6	232.3	237.2	241.9	245.5	241.9
37.5°	2128.4	1386.8	405.7	245.5	225.1	215.5	213.1	211.9	216.7	217.9	220.3
40°	2261.9	1403.6	344.3	226.3	210.6	199.8	192.6	192.6	192.6	196.2	197.4
42.5°	2406.4	1426.5	297.3	215.5	197.4	184.2	177.0	174.5	177.0	181.8	180.6
45°	2558.1	1471.0	267.2	198.6	185.4	168.5	158.9	156.5	162.6	172.2	170.9
47.5°	2700.1	1534.8	244.4	187.8	173.4	157.7	145.6	143.3	154.1	167.3	168.5
50°	2842.2	1645.6	235.9	179.4	164.9	146.9	136.0	133.7	145.6	162.6	166.2
52.5°	3005.9	1764.8	229.9	168.5	155.3	138.4	126.4	124.0	137.3	158.9	160.1
55°	3113.1	1865.9	225.1	149.2	137.3	125.2	115.6	114.4	128.8	148.1	152.9
57.5°	2987.8	1725.0	208.3	130.0	116.7	110.7	102.3	102.3	114.4	132.4	136.0
60°	2265.5	1135.2	148.1	104.8	98.7	95.1	91.5	91.5	101.1	114.4	115.6
62.5°	1326.6	611.5	95.1	84.3	84.3	80.6	74.6	74.6	84.3	91.5	92.7
65°	393.6	196.2	77.0	72.2	71.0	65.0	59.0	57.8	65.0	68.6	67.4
67.5°	113.1	90.3	63.8	60.2	59.0	49.3	45.7	44.6	45.7	43.3	42.1
70°	67.4	61.4	49.3	50.6	44.6	36.1	32.5	31.3	28.9	25.3	22.9
72.5°	37.3	37.3	36.1	38.5	31.3	24.0	20.4	16.8	13.2	10.8	9.6
75°	22.9	24.0	25.3	26.5	20.4	15.7	13.2	8.5	4.8	2.4	2.4
77.5°	15.7	16.8	18.1	19.3	16.8	14.4	10.8	6.0	1.2	0.0	0.0
80°	12.1	13.2	15.7	16.8	18.1	19.3	14.4	6.0	1.2	0.0	0.0
82.5°	13.2	14.4	18.1	16.8	16.8	16.8	13.2	6.0	1.2	0.0	0.0
85°	2.4	3.6	6.0	6.0	8.5	10.8	8.5	2.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)