

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: P451736

Luminaire Tested: **GALN-SA2C-827-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10301 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

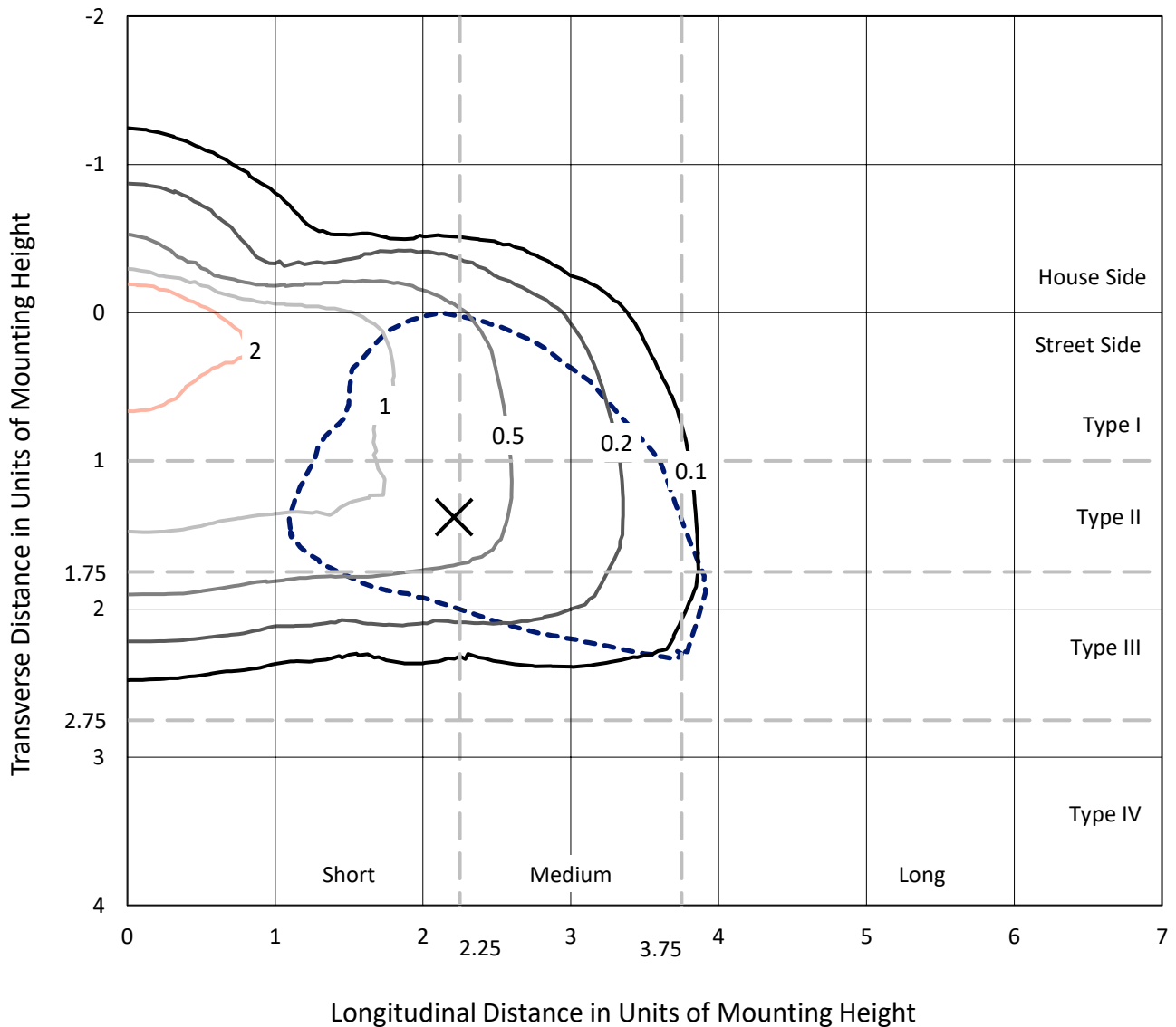
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

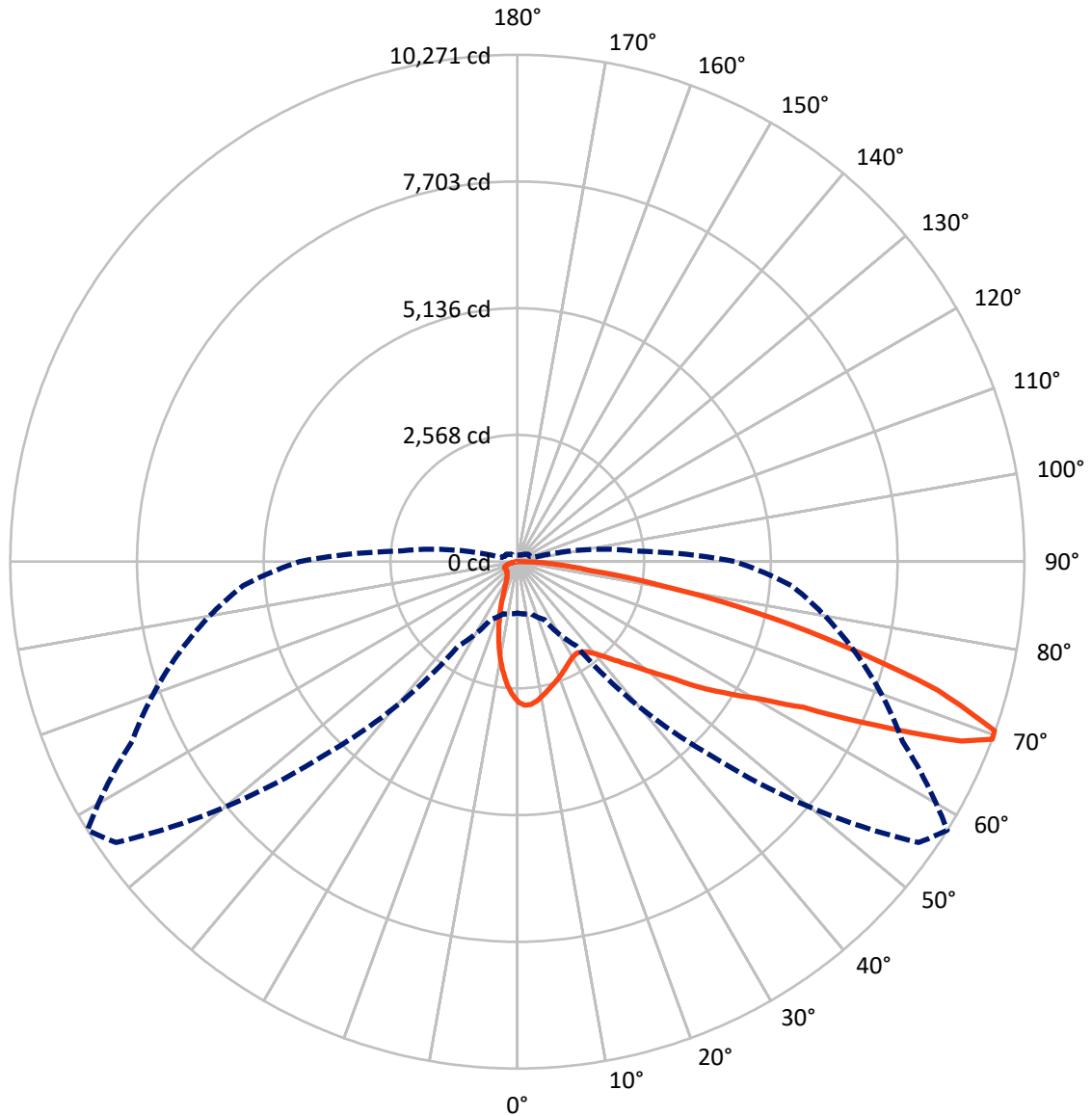
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1509.6	0.0	1509.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	8791.4	0.0	8791.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	10301.0	0.0	10301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.7	2.3
10°-20°	530.8	5.2
20°-30°	685.8	6.7
30°-40°	890.8	8.6
40°-50°	1295.1	12.6
50°-60°	2066.5	20.1
60°-70°	2760.6	26.8
70°-80°	1591.4	15.4
80°-90°	238.3	2.3
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°	10301.0	100.0
0°-180°	10301.0	100.0

Coefficient of Utilization



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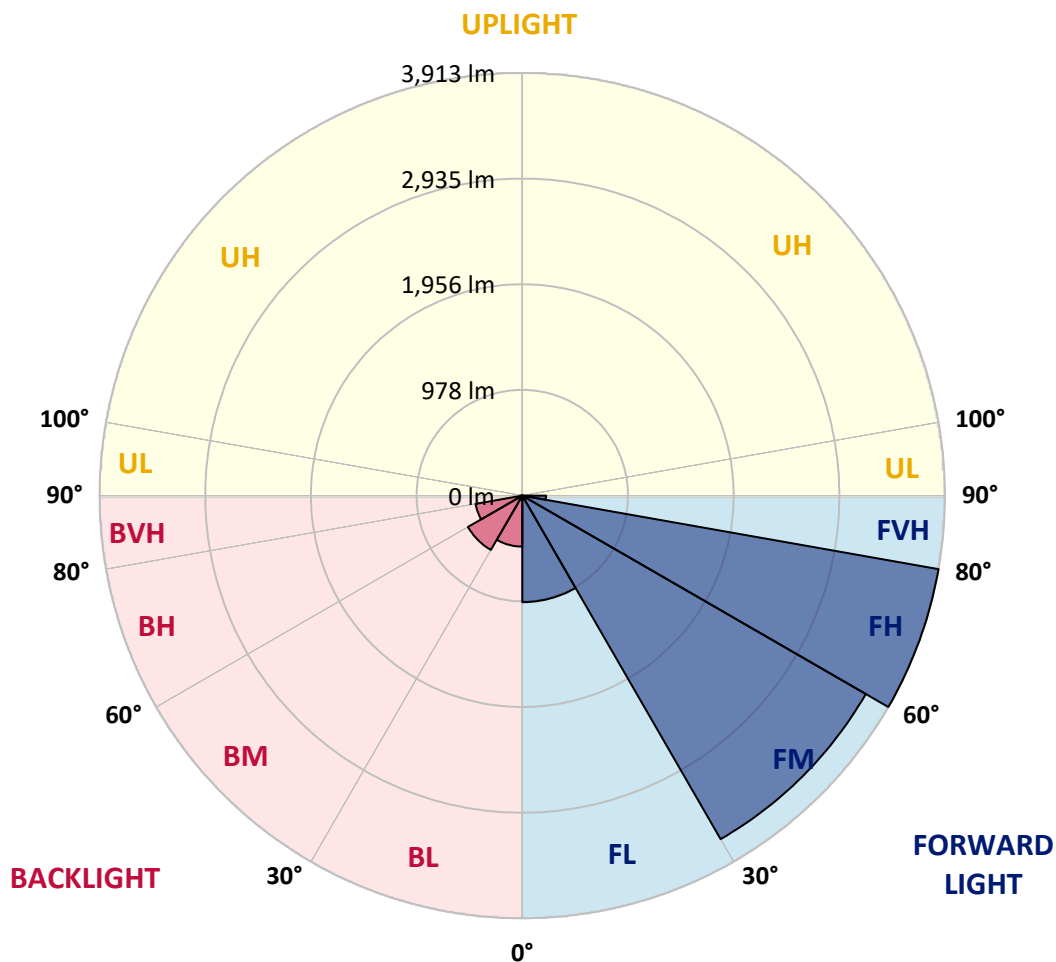
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	986.6	9.6			
FM (30°-60°)	3671.8	35.6			
FH (60°-80°)	3913.0	38.0			G2/5000
FVH (80°-90°)	220.1	2.1			G2/225
BL (0°-30°)	471.8	4.6	B1/500		
BM (30°-60°)	580.5	5.6	B1/1000		
BH (60°-80°)	439.0	4.3	B1/500		G1/500
BVH (80°-90°)	18.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6
2.5°	2952.3	2960.3	2958.0	2955.2	2950.6	2937.9	2917.3	2913.8	2900.6	2872.4	2837.4
5°	2906.9	2913.8	2914.4	2918.4	2924.1	2921.9	2906.9	2905.2	2885.7	2847.7	2789.1
7.5°	2751.2	2760.4	2780.5	2802.9	2823.0	2842.0	2846.6	2849.5	2837.4	2793.7	2715.6
10°	2576.0	2585.2	2594.4	2627.7	2677.1	2724.2	2763.3	2768.5	2771.3	2731.1	2635.8
12.5°	2381.8	2400.8	2420.3	2469.7	2535.8	2609.9	2678.8	2689.8	2709.3	2678.8	2566.8
15°	2217.0	2236.5	2264.6	2308.9	2388.7	2495.6	2592.7	2610.5	2649.0	2633.5	2502.5
17.5°	2102.6	2109.5	2129.1	2179.6	2265.8	2378.4	2508.2	2543.8	2605.3	2601.3	2447.3
20°	2012.4	2021.1	2033.1	2064.1	2153.8	2272.7	2429.5	2475.5	2558.8	2572.6	2392.7
22.5°	1974.5	1980.8	1979.1	1995.8	2056.7	2176.2	2349.7	2404.2	2517.4	2553.0	2342.2
25°	1976.8	1982.6	1973.9	1969.9	2006.1	2091.1	2266.4	2335.9	2484.1	2539.8	2296.2
27.5°	2015.3	2019.3	2003.2	1987.2	1990.0	2038.3	2197.4	2274.4	2455.9	2545.6	2257.7
30°	2067.0	2074.5	2064.1	2044.6	2023.4	2025.6	2153.2	2229.0	2442.7	2565.7	2239.4
32.5°	2133.7	2140.5	2136.0	2120.4	2092.9	2062.4	2142.3	2212.4	2443.9	2606.5	2235.3
35°	2203.7	2217.5	2225.0	2223.8	2201.4	2148.6	2185.4	2243.4	2471.5	2674.8	2258.9
37.5°	2283.0	2294.5	2326.7	2347.4	2326.7	2265.2	2282.4	2322.7	2532.3	2773.6	2310.6
40°	2360.0	2377.2	2424.3	2488.7	2480.6	2426.6	2430.7	2457.1	2639.8	2920.7	2411.7
42.5°	2440.4	2461.1	2543.3	2638.6	2657.6	2615.6	2626.6	2650.1	2792.6	3124.6	2585.2
45°	2543.8	2568.5	2669.7	2788.6	2863.3	2837.4	2868.4	2879.9	2997.1	3390.1	2813.8
47.5°	2677.1	2705.8	2830.5	2978.7	3084.4	3108.0	3162.0	3155.1	3250.5	3704.3	3110.3
50°	2901.7	2917.8	3035.6	3186.7	3332.0	3438.3	3496.9	3507.8	3564.7	4009.9	3441.8
52.5°	3168.9	3183.2	3268.3	3400.4	3582.5	3807.7	3952.5	3916.9	3930.7	4382.2	3829.5
55°	3469.3	3493.5	3547.5	3635.4	3871.5	4203.0	4493.7	4502.3	4349.5	4738.4	4201.2
57.5°	3702.0	3742.8	3835.3	3960.5	4259.8	4642.4	5033.1	5038.8	4843.5	5118.7	4611.4
60°	3584.8	3633.1	3844.5	4149.5	4769.4	5409.4	5677.7	5644.9	5324.4	5551.9	5111.8
62.5°	3079.3	3087.9	3395.2	3872.1	4926.2	6435.4	6637.1	6498.6	5966.1	6101.1	5620.2
65°	1992.9	2049.2	2292.8	2960.9	4410.9	7004.7	8318.0	7998.0	6865.7	6724.4	6045.9
67.5°	1258.1	1243.8	1344.9	1690.7	3033.9	6503.2	9752.5	9702.0	8042.3	7117.9	5944.2
69°	1043.3	1059.4	1093.8	1296.0	2087.7	5552.4	9922.0	10271.3	8612.7	7086.9	5574.8
70°	946.2	953.7	989.8	1149.0	1610.9	4650.5	9643.9	10255.8	8836.8	6957.1	5307.1
72.5°	750.9	750.3	812.3	955.9	1204.1	2654.7	7918.8	8904.0	8586.3	6352.7	4385.1
75°	570.5	579.7	648.0	808.9	1109.3	1450.6	5526.0	6857.1	6857.7	5017.6	2736.3
77.5°	411.3	417.1	496.9	679.0	1045.0	1176.0	3680.8	4918.2	4623.5	2299.1	860.0
80°	269.4	272.9	333.8	537.7	942.2	1109.3	2182.5	3010.3	2180.8	610.1	284.4
82.5°	147.6	164.9	203.9	348.1	756.0	1024.9	1326.5	1523.5	818.1	271.7	148.2
85°	74.1	78.7	114.9	203.4	494.1	847.9	923.8	873.8	422.2	135.0	77.0
87.5°	21.8	27.6	47.7	78.7	200.5	441.8	514.2	461.3	162.6	48.8	16.1
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°	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6
2.5°	2823.0	2812.7	2766.7	2725.4	2687.5	2647.2	2613.4	2583.5	2586.3	2586.9	2556.5
5°	2758.7	2735.1	2647.8	2566.2	2497.3	2410.0	2335.3	2287.0	2262.9	2230.7	2242.2
7.5°	2671.4	2626.0	2504.8	2369.2	2242.2	2129.1	2006.1	1921.7	1867.7	1815.4	1822.3
10°	2581.2	2508.2	2331.9	2152.6	1988.3	1807.3	1650.5	1516.1	1416.1	1378.8	1354.1
12.5°	2488.7	2392.7	2168.7	1930.3	1703.4	1486.8	1264.5	1120.3	1010.0	951.4	958.8
15°	2404.2	2287.6	1998.6	1708.0	1413.2	1155.3	933.5	796.2	719.3	703.2	712.4
17.5°	2326.1	2173.3	1839.5	1491.9	1147.8	866.3	701.5	623.9	592.9	584.3	583.7
20°	2245.7	2076.2	1660.8	1261.0	894.5	671.6	575.6	539.4	533.7	537.1	537.7
22.5°	2164.1	1956.1	1477.0	1031.8	712.4	549.2	503.3	493.5	498.1	506.1	507.3
25°	2088.8	1850.4	1300.1	830.7	568.7	482.6	460.2	460.2	470.5	482.6	483.1
27.5°	2026.8	1748.2	1123.7	659.5	476.3	434.3	426.8	430.9	445.2	454.4	455.0
30°	1975.7	1652.8	957.1	528.5	418.8	395.8	394.1	401.0	411.3	420.0	420.5
32.5°	1937.2	1568.9	801.4	444.1	379.2	366.5	365.9	371.1	376.9	379.2	381.5
35°	1922.2	1499.4	658.9	390.7	352.7	344.7	344.7	344.1	346.4	347.6	348.7
37.5°	1934.3	1446.0	548.6	356.2	333.2	327.5	324.0	320.6	319.4	319.4	320.0
40°	1985.4	1417.8	466.5	333.8	319.4	310.8	304.5	300.5	296.4	297.6	298.7
42.5°	2094.0	1423.0	410.8	318.8	307.4	295.3	286.1	281.5	278.6	282.1	281.5
45°	2266.9	1474.7	375.1	308.5	295.3	279.8	271.2	266.6	266.6	271.7	273.5
47.5°	2508.8	1573.5	356.2	300.5	286.1	267.7	259.1	255.6	256.8	265.4	266.0
50°	2804.1	1745.3	352.7	296.4	281.5	259.1	249.3	245.9	248.8	257.9	259.1
52.5°	3129.8	1966.5	369.4	297.0	277.5	253.9	241.3	236.1	239.0	246.5	248.8
55°	3515.9	2243.4	412.5	299.3	271.7	251.1	235.5	224.1	227.5	232.7	233.2
57.5°	3910.0	2592.7	488.3	299.9	267.1	245.9	225.8	210.8	210.8	214.3	216.0
60°	4391.4	2973.0	588.3	300.5	267.7	238.4	212.6	195.9	193.6	195.3	195.9
62.5°	4869.4	3291.2	604.9	298.7	273.5	230.9	198.2	181.0	176.9	176.4	175.2
65°	5080.2	3232.1	495.8	290.7	279.8	226.3	186.7	166.6	159.7	157.4	157.4
67.5°	4736.7	2734.0	372.8	279.8	275.8	221.8	175.8	154.5	146.5	141.9	141.9
69°	4413.8	2431.8	334.9	272.3	265.4	214.3	168.9	148.2	138.5	133.3	131.6
70°	4164.5	2223.8	318.8	266.0	255.6	205.7	163.7	143.6	132.7	127.0	125.8
72.5°	3323.4	1744.7	279.2	241.9	217.7	172.9	145.3	129.3	118.9	112.6	110.9
75°	1915.3	945.6	231.5	210.3	175.2	134.4	122.9	112.6	104.6	98.8	97.1
77.5°	589.4	365.4	167.8	166.0	128.7	104.0	98.2	94.2	88.5	82.2	81.0
80°	248.2	186.1	113.7	112.0	85.6	72.4	70.7	70.1	67.8	62.6	60.9
82.5°	136.2	105.1	79.3	68.9	51.7	41.9	43.7	44.2	42.5	37.3	33.9
85°	66.6	57.4	38.5	31.0	23.6	14.9	14.4	17.2	16.1	11.5	12.6
87.5°	13.2	16.1	10.3	4.6	2.3	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)