

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: P651232

Luminaire Tested: **GALN-SA2D-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13059.1 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

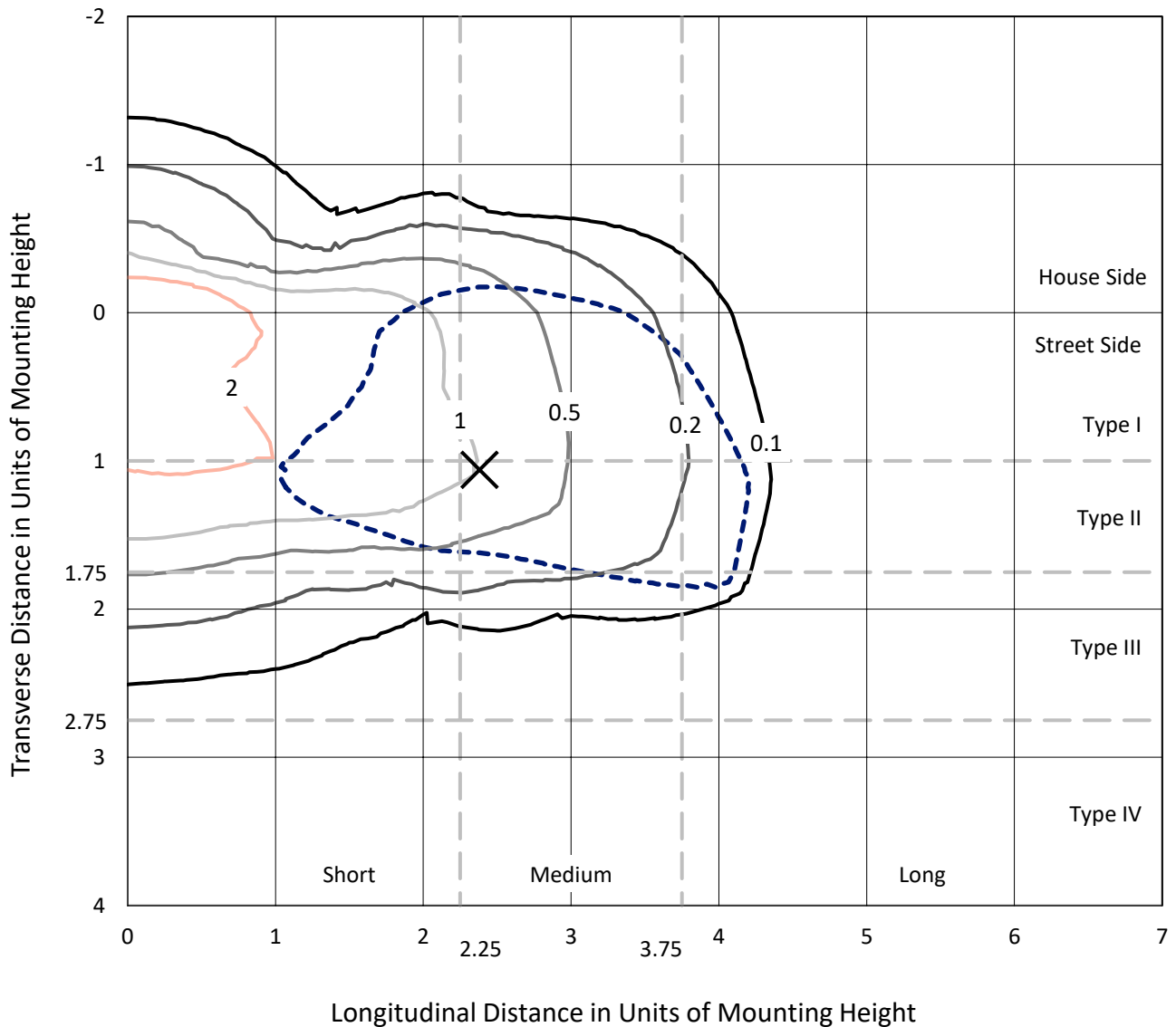
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

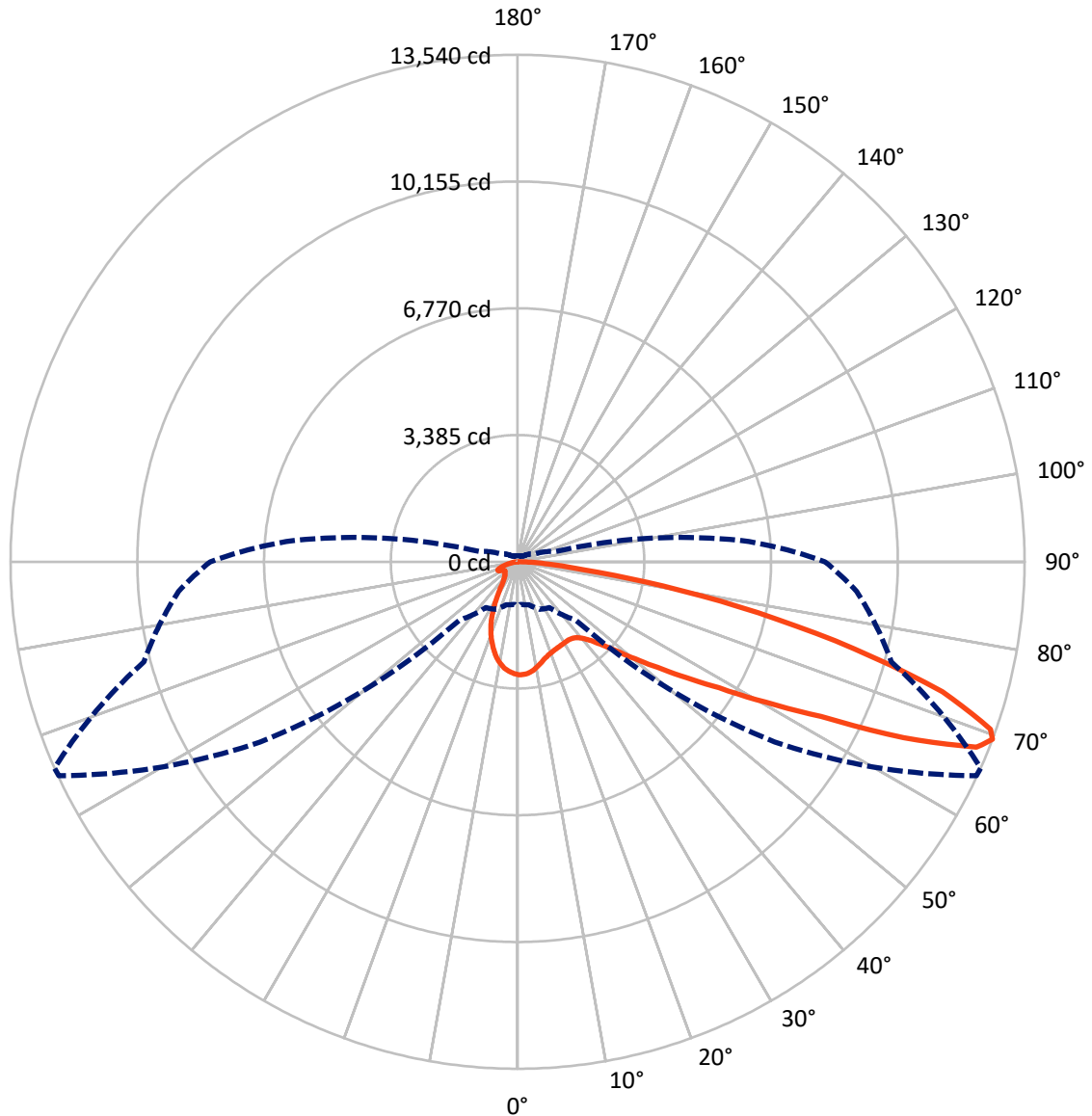
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2455.9	0.0	2455.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10603.1	0.0	10603.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	13059.1	0.0	13059.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.9	2.0
10°-20°	621.2	4.8
20°-30°	845.6	6.5
30°-40°	1136.3	8.7
40°-50°	1696.7	13.0
50°-60°	2698.9	20.7
60°-70°	3319.6	25.4
70°-80°	2159.9	16.5
80°-90°	318.9	2.4
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°	13059.1	100.0
0°-180°	13059.1	100.0

Coefficient of Utilization

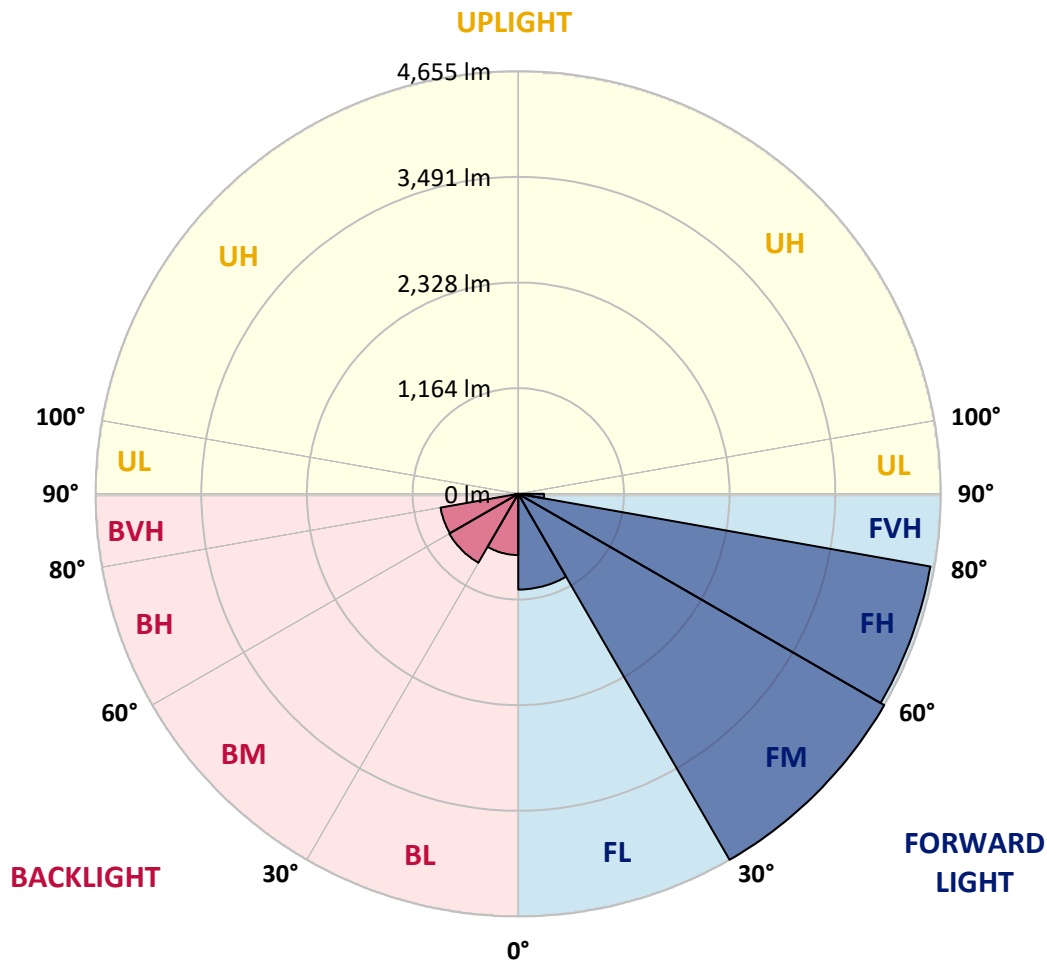


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1054.5	8.1			
FM (30°-60°)	4655.2	35.6			
FH (60°-80°)	4609.9	35.3			G2/5000
FVH (80°-90°)	283.6	2.2			G3/500
BL (0°-30°)	674.2	5.2	B2/1000		
BM (30°-60°)	876.9	6.7	B1/1000		
BH (60°-80°)	869.5	6.7	B2/1000		G2/1000
BVH (80°-90°)	35.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7
2.5°	2910.1	2921.7	2934.7	2949.1	2976.6	2991.9	3002.7	3015.0	3016.4	3022.9	3017.8
5°	2695.3	2709.0	2728.6	2756.0	2797.3	2861.7	2928.2	2982.4	2988.9	3019.3	3028.0
7.5°	2515.9	2523.9	2539.8	2584.0	2642.5	2714.2	2811.0	2921.0	2936.9	3009.2	3034.5
10°	2369.9	2377.8	2396.7	2442.2	2500.0	2589.8	2696.1	2840.6	2853.7	2978.1	3035.9
12.5°	2260.7	2267.9	2288.2	2333.0	2399.5	2483.4	2600.6	2753.9	2772.7	2936.9	3022.2
15°	2177.5	2191.2	2207.9	2244.8	2314.9	2395.9	2509.5	2674.4	2689.5	2893.5	3012.8
17.5°	2142.1	2148.6	2160.2	2194.2	2245.5	2325.0	2439.3	2612.1	2630.2	2863.1	3010.6
20°	2143.5	2150.0	2152.2	2171.0	2207.9	2276.6	2389.4	2562.9	2584.6	2836.4	3014.2
22.5°	2192.7	2193.4	2185.5	2178.9	2193.4	2250.6	2354.0	2526.1	2551.4	2824.8	3017.2
25°	2268.7	2281.6	2270.1	2239.8	2212.9	2240.4	2340.3	2505.8	2529.7	2808.2	3013.6
27.5°	2391.6	2393.7	2384.3	2343.1	2273.7	2253.5	2334.4	2490.6	2510.9	2795.8	2995.5
30°	2556.5	2550.0	2541.2	2495.8	2386.5	2303.3	2346.7	2476.9	2497.9	2777.7	2973.8
32.5°	2723.5	2743.8	2735.9	2682.3	2540.6	2400.3	2386.5	2475.5	2492.8	2764.0	2949.9
35°	2900.7	2910.1	2947.7	2920.2	2774.9	2557.2	2461.0	2497.9	2511.6	2764.8	2933.2
37.5°	3039.5	3064.9	3153.1	3177.0	3040.3	2764.8	2581.8	2561.5	2567.3	2800.2	2939.8
40°	3207.3	3250.7	3364.3	3461.9	3372.2	3034.5	2787.2	2679.4	2686.7	2885.6	2982.4
42.5°	3419.9	3450.4	3602.9	3735.3	3720.8	3391.0	3035.9	2872.5	2876.1	3055.4	3101.8
45°	3668.8	3712.1	3883.5	4082.4	4116.4	3794.6	3395.4	3164.7	3162.5	3319.4	3324.5
47.5°	3986.9	4013.7	4183.6	4400.6	4538.0	4301.5	3831.4	3584.1	3561.0	3704.2	3663.0
50°	4279.8	4321.8	4450.5	4687.7	5029.8	4895.3	4404.9	4128.0	4073.7	4207.5	4138.1
52.5°	4402.8	4446.9	4555.4	4849.7	5451.4	5663.3	5133.2	4776.6	4686.3	4789.0	4763.7
55°	4189.4	4246.5	4347.8	4705.8	5636.6	6549.2	6115.2	5526.6	5460.8	5416.7	5423.9
57.5°	3616.0	3670.2	3806.9	4201.7	5415.2	7192.1	7517.5	6490.6	6349.6	6146.4	6181.1
60°	2752.4	2786.5	2857.3	3294.9	4759.3	7359.2	9110.0	7709.2	7619.5	6873.2	6897.8
62.5°	1954.8	1993.1	2042.3	2260.7	3484.3	6888.4	10356.7	9410.9	9090.5	7626.0	7602.1
65°	1587.4	1561.4	1620.7	1722.6	2044.5	5338.6	10637.4	11772.8	11331.6	8617.6	8286.3
67.5°	1305.3	1277.9	1336.4	1518.0	1554.8	3098.8	9626.3	13306.0	13217.7	9695.8	8981.3
69°	1155.6	1141.2	1192.5	1399.3	1492.7	2200.6	8386.1	13519.3	13540.3	10331.4	9088.4
70°	1041.4	1047.2	1097.1	1339.4	1464.4	1814.5	7167.5	13225.0	13402.8	10649.0	8972.6
72.5°	766.6	778.9	848.3	1109.4	1437.7	1539.7	4265.4	11551.5	11866.1	10667.7	8208.2
75°	535.9	530.1	591.6	835.3	1358.1	1525.9	2505.1	8933.5	9290.1	9220.6	6897.0
77.5°	350.8	360.1	409.3	590.1	1142.7	1514.4	1633.0	6338.0	6569.5	6166.6	4079.5
80°	247.3	246.6	274.1	402.8	847.6	1455.0	1337.2	3994.9	3936.3	2423.4	1209.9
82.5°	141.7	151.9	183.7	283.5	567.0	1280.8	1230.1	1910.7	1744.3	690.6	408.6
85°	78.8	82.4	109.2	171.4	331.2	964.7	1074.0	869.3	820.1	288.5	175.8
87.5°	25.3	27.5	45.6	86.8	150.5	455.6	608.2	401.4	370.3	104.1	70.9
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°	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7	3015.7
2.5°	3020.0	3028.7	3005.6	2983.2	2962.9	2934.7	2909.4	2888.4	2873.9	2871.8	2864.5
5°	3030.1	3030.9	2986.8	2927.4	2869.6	2806.0	2740.1	2693.1	2649.1	2624.4	2612.1
7.5°	3037.4	3030.9	2951.3	2855.1	2743.8	2628.0	2512.3	2419.8	2348.2	2320.0	2330.8
10°	3034.5	3014.2	2897.8	2743.8	2581.8	2409.0	2242.6	2112.4	1993.1	1931.6	1933.1
12.5°	3018.6	2985.3	2818.3	2618.7	2380.7	2149.3	1894.8	1719.0	1580.9	1499.2	1473.9
15°	3004.8	2947.0	2725.0	2448.7	2153.0	1822.4	1512.2	1295.2	1179.5	1115.2	1114.4
17.5°	2990.3	2910.1	2623.0	2268.7	1891.2	1465.9	1140.5	974.9	920.6	927.1	916.3
20°	2975.2	2866.7	2516.7	2068.4	1572.2	1093.5	854.1	786.8	802.0	831.7	836.0
22.5°	2957.9	2820.5	2402.4	1847.8	1236.7	823.0	692.8	682.7	721.7	768.0	774.6
25°	2931.1	2762.6	2258.5	1617.1	953.9	663.1	606.8	614.0	652.3	691.4	695.7
27.5°	2893.5	2690.9	2113.2	1329.2	716.7	569.2	554.7	564.1	582.9	606.8	612.5
30°	2842.8	2610.0	1946.1	1080.4	574.2	522.2	516.4	521.4	532.3	542.4	545.3
32.5°	2792.2	2531.9	1777.6	827.3	512.0	491.1	485.3	485.3	485.3	486.7	487.4
35°	2745.2	2458.2	1596.8	644.4	479.5	466.4	458.5	449.9	448.3	443.3	443.3
37.5°	2719.2	2390.9	1404.5	539.5	455.6	446.2	435.4	420.9	412.9	413.7	412.3
40°	2724.3	2346.7	1229.5	480.2	436.1	426.0	409.3	392.7	387.6	387.6	386.2
42.5°	2781.4	2332.3	1061.7	449.1	417.3	405.7	384.8	369.5	366.7	365.9	367.3
45°	2913.0	2367.8	911.2	428.8	401.4	384.0	363.1	349.3	346.4	346.4	345.7
47.5°	3169.7	2482.7	803.5	415.9	389.8	367.3	345.7	331.9	326.9	325.5	325.5
50°	3569.0	2732.2	723.2	404.3	375.3	352.2	329.8	313.9	305.9	305.2	304.4
52.5°	4123.6	3121.3	692.1	395.6	359.4	336.3	311.7	296.5	286.4	284.2	282.7
55°	4772.3	3664.4	734.8	389.0	342.8	318.2	292.9	276.9	267.6	263.2	262.5
57.5°	5523.7	4316.7	896.8	380.4	327.6	298.6	274.1	258.2	248.1	243.0	241.5
60°	6198.4	4987.1	1179.5	375.3	314.6	277.7	252.4	237.9	228.5	223.5	222.8
62.5°	6939.7	5626.4	1517.2	389.0	308.8	257.4	232.1	219.2	211.2	206.1	206.1
65°	7731.6	6266.5	1740.7	435.4	317.5	241.5	210.4	199.6	192.3	188.7	188.0
67.5°	8265.3	6487.7	1434.1	483.1	339.2	224.2	189.5	180.8	176.4	172.8	172.8
69°	8207.5	6207.8	1058.1	495.3	345.7	215.5	177.9	171.4	165.6	164.2	162.7
70°	8024.5	5888.9	886.7	487.4	340.6	207.6	170.6	162.7	157.7	156.2	155.5
72.5°	7147.2	5107.1	660.3	423.8	290.0	180.1	151.1	143.9	139.6	137.4	137.4
75°	5938.1	4174.2	515.6	337.0	227.1	151.9	129.4	123.6	120.0	118.6	117.9
77.5°	3328.1	2330.8	370.3	264.0	172.2	123.0	108.5	103.4	99.8	98.3	98.3
80°	927.1	666.1	217.7	174.3	117.2	93.3	86.0	82.4	77.4	73.8	75.9
82.5°	349.3	288.5	124.4	104.9	74.5	62.2	60.0	57.1	55.0	49.9	49.9
85°	170.0	140.3	79.6	55.7	41.2	32.5	31.1	29.7	28.2	24.6	25.3
87.5°	58.6	62.2	34.7	20.3	12.3	8.0	6.5	3.6	3.6	3.6	3.6
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)