

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: P648317

Luminaire Tested: **GALN-SA3B-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648317
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-SA3B-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA 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: 13276.5 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

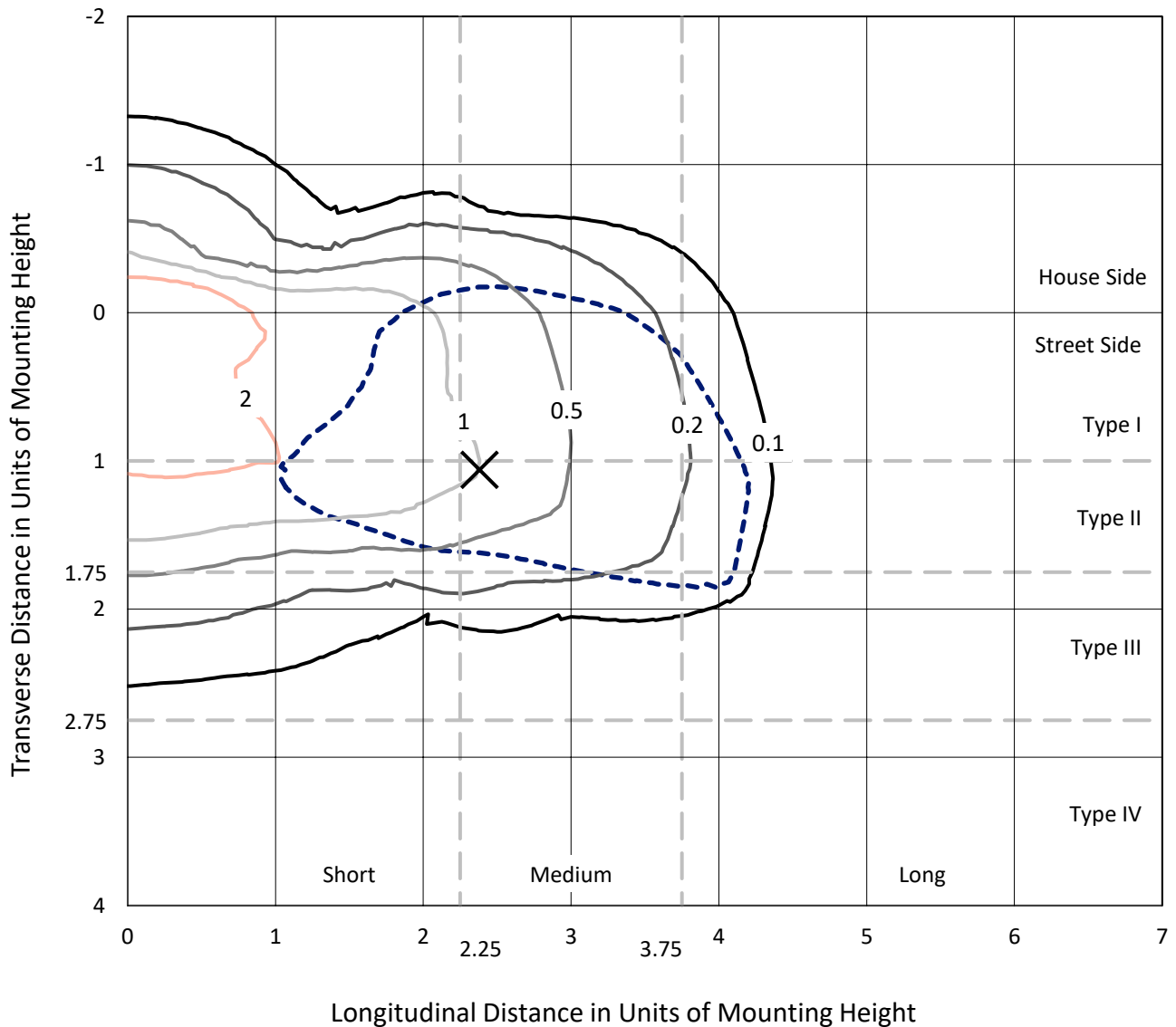
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

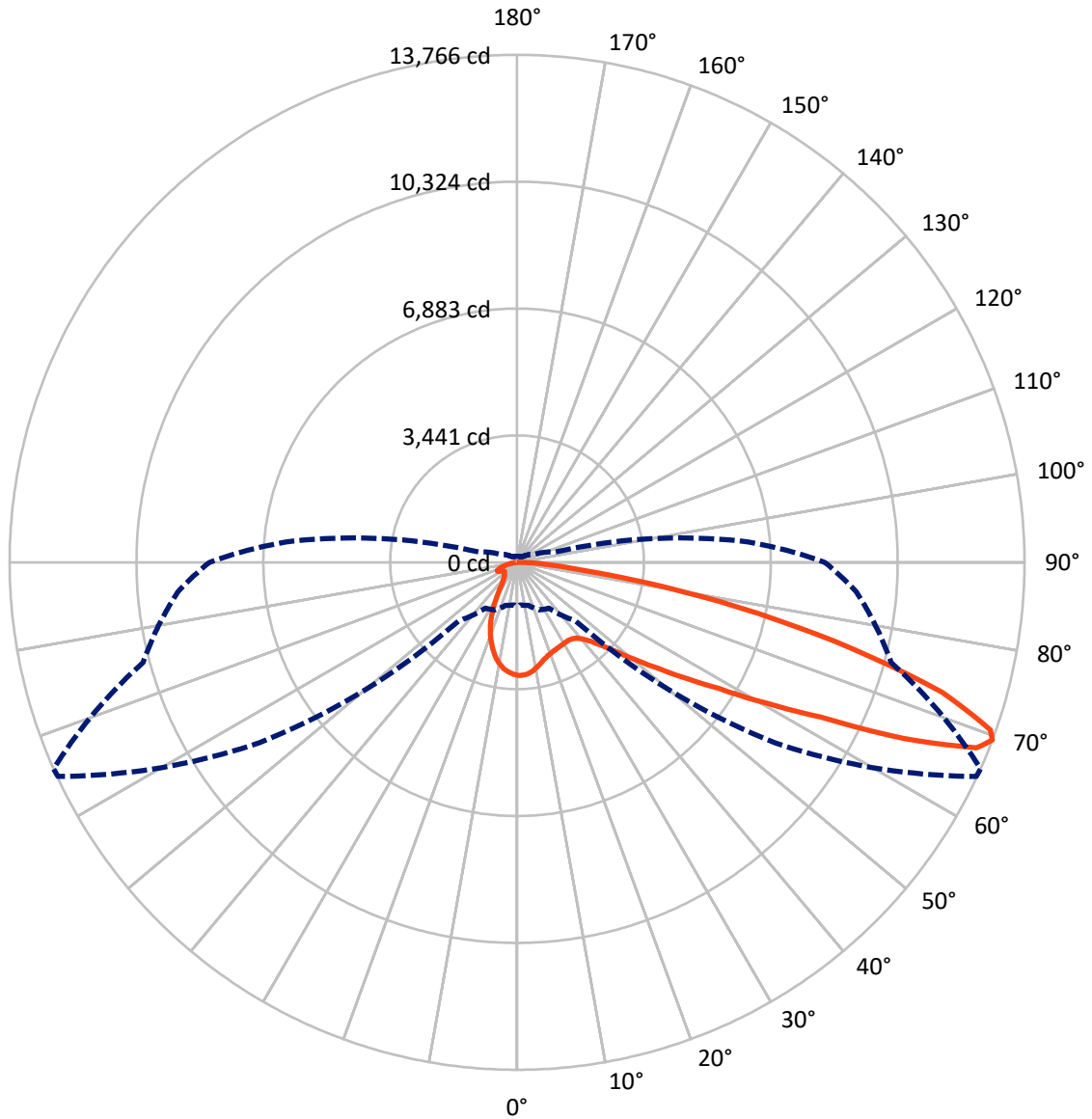
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	2496.8	0.0	2496.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10779.7	0.0	10779.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	13276.5	0.0	13276.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.2	2.0
10°-20°	631.5	4.8
20°-30°	859.7	6.5
30°-40°	1155.3	8.7
40°-50°	1725.0	13.0
50°-60°	2743.9	20.7
60°-70°	3374.8	25.4
70°-80°	2195.8	16.5
80°-90°	324.3	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°	13276.5	100.0
0°-180°	13276.5	100.0

Coefficient of Utilization

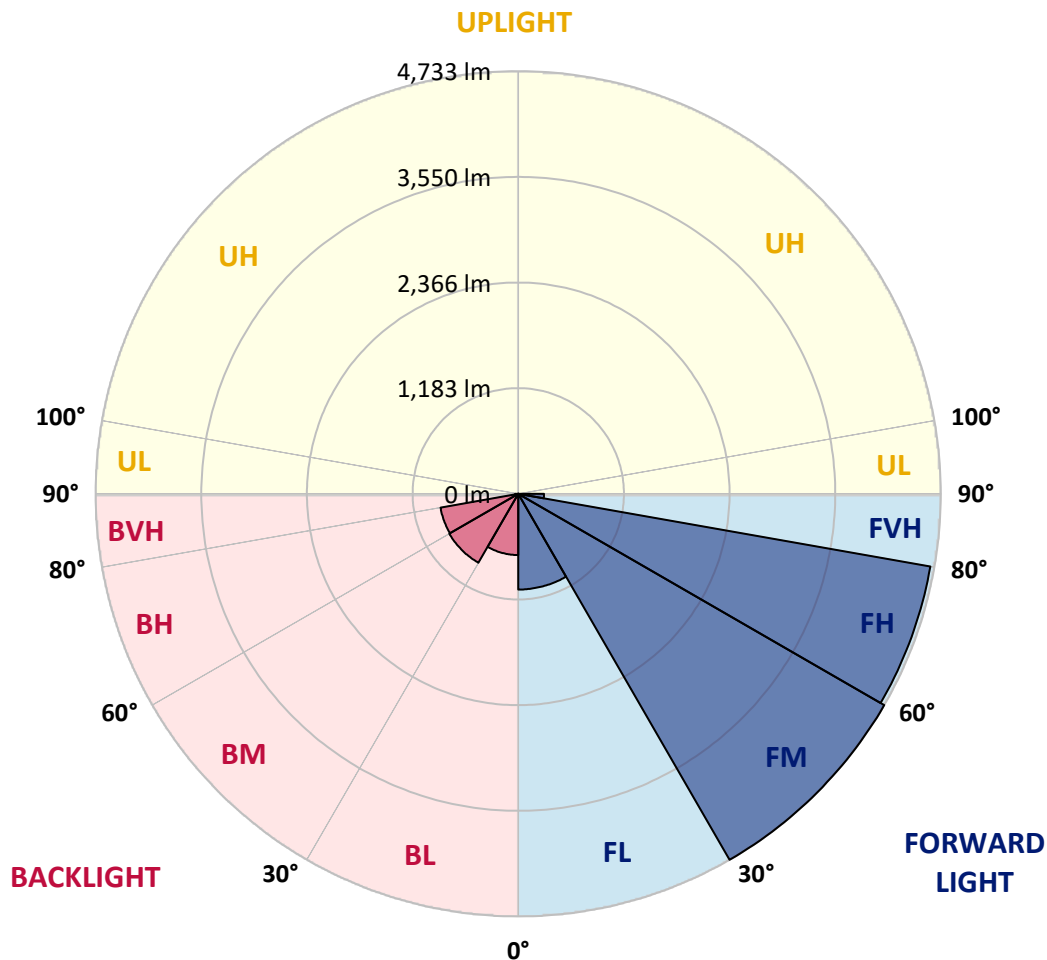


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1072.1	8.1			
FM (30°-60°)	4732.7	35.6			
FH (60°-80°)	4686.7	35.3			G2/5000
FVH (80°-90°)	288.3	2.2			G3/500
BL (0°-30°)	685.4	5.2	B2/1000		
BM (30°-60°)	891.5	6.7	B1/1000		
BH (60°-80°)	884.0	6.7	B2/1000		G2/1000
BVH (80°-90°)	36.0	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°	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9
2.5°	2958.6	2970.3	2983.5	2998.3	3026.2	3041.6	3052.7	3065.2	3066.7	3073.3	3068.1
5°	2740.2	2754.2	2774.0	2802.0	2843.9	2909.3	2977.0	3032.1	3038.7	3069.6	3078.4
7.5°	2557.9	2566.0	2582.2	2627.0	2686.6	2759.4	2857.9	2969.6	2985.8	3059.3	3085.0
10°	2409.4	2417.4	2436.5	2482.9	2541.7	2632.8	2741.0	2888.0	2901.2	3027.7	3086.5
12.5°	2298.3	2305.7	2326.3	2371.9	2439.5	2524.8	2643.9	2799.8	2818.9	2985.8	3072.6
15°	2213.8	2227.8	2244.7	2282.1	2353.5	2435.8	2551.2	2718.9	2734.3	2941.7	3063.0
17.5°	2177.8	2184.4	2196.2	2230.7	2282.9	2363.8	2479.9	2655.7	2674.0	2910.8	3060.7
20°	2179.2	2185.8	2188.1	2207.2	2244.7	2314.5	2429.2	2605.7	2627.7	2883.6	3064.4
22.5°	2229.2	2230.0	2221.8	2215.3	2230.0	2288.1	2393.2	2568.2	2593.9	2871.8	3067.4
25°	2306.4	2319.6	2307.9	2277.0	2249.8	2277.7	2379.2	2547.6	2571.8	2854.9	3063.7
27.5°	2431.4	2433.6	2424.1	2382.1	2311.6	2291.0	2373.4	2532.1	2552.7	2842.4	3045.3
30°	2599.0	2592.4	2583.6	2537.3	2426.3	2341.7	2385.8	2518.2	2539.5	2824.0	3023.2
32.5°	2768.9	2789.4	2781.4	2727.0	2582.9	2440.2	2426.3	2516.7	2534.3	2810.0	2999.0
35°	2949.0	2958.6	2996.8	2968.9	2821.1	2599.8	2502.0	2539.5	2553.4	2810.8	2982.1
37.5°	3090.2	3115.9	3205.6	3229.9	3090.9	2810.8	2624.8	2604.2	2610.1	2846.8	2988.7
40°	3260.7	3304.9	3420.3	3519.6	3428.4	3085.0	2833.6	2724.1	2731.4	2933.6	3032.1
42.5°	3476.9	3507.8	3663.0	3797.5	3782.8	3447.5	3086.5	2920.4	2924.0	3106.4	3153.5
45°	3729.8	3774.0	3948.2	4150.4	4185.0	3857.8	3451.9	3217.3	3215.2	3374.7	3379.9
47.5°	4053.4	4080.5	4253.3	4473.9	4613.6	4373.1	3895.3	3643.8	3620.3	3765.8	3723.9
50°	4351.1	4393.7	4524.6	4765.8	5113.5	4976.8	4478.3	4196.7	4141.6	4277.6	4207.0
52.5°	4476.1	4521.0	4631.2	4930.5	5542.2	5757.6	5218.7	4856.2	4764.3	4868.7	4843.0
55°	4259.2	4317.3	4420.2	4784.1	5730.4	6658.2	6217.1	5618.7	5551.8	5506.9	5514.3
57.5°	3676.2	3731.3	3870.3	4271.7	5505.4	7311.9	7642.8	6598.7	6455.4	6248.7	6284.0
60°	2798.3	2832.8	2904.9	3349.8	4838.5	7481.7	9261.7	7837.6	7746.5	6987.6	7012.6
62.5°	1987.3	2026.3	2076.3	2298.3	3542.4	7003.1	10529.3	9567.6	9241.9	7753.0	7728.8
65°	1613.8	1587.4	1647.7	1751.3	2078.5	5427.5	10814.6	11968.9	11520.4	8761.1	8424.3
67.5°	1327.1	1299.2	1358.7	1543.3	1580.7	3150.5	9786.7	13527.6	13437.8	9857.3	9130.9
69°	1174.9	1160.2	1212.4	1422.7	1517.5	2237.3	8525.8	13744.5	13765.8	10503.6	9239.7
70°	1058.8	1064.6	1115.4	1361.6	1488.9	1844.7	7286.9	13445.2	13626.1	10826.3	9122.0
72.5°	779.3	791.8	862.4	1127.8	1461.6	1565.3	4336.4	11743.9	12063.7	10845.4	8344.9
75°	544.8	538.9	601.4	849.2	1380.7	1551.4	2546.9	9082.3	9444.8	9374.2	7011.9
77.5°	356.6	366.1	416.2	599.9	1161.7	1539.6	1660.2	6443.6	6678.8	6269.3	4147.5
80°	251.4	250.7	278.7	409.5	861.7	1479.3	1359.4	4061.4	4001.9	2463.8	1230.0
82.5°	144.1	154.4	186.7	288.2	576.4	1302.1	1250.6	1942.5	1773.4	702.1	415.4
85°	80.2	83.8	111.0	174.2	336.8	980.8	1091.8	883.8	833.7	293.4	178.7
87.5°	25.8	28.0	46.4	88.2	152.9	463.2	618.3	408.0	376.5	105.9	72.0
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°	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9	3065.9
2.5°	3070.3	3079.1	3055.7	3032.9	3012.3	2983.5	2957.9	2936.5	2921.8	2919.7	2912.3
5°	3080.6	3081.3	3036.6	2976.3	2917.4	2852.7	2785.8	2738.0	2693.1	2668.2	2655.7
7.5°	3088.0	3081.3	3000.5	2902.7	2789.4	2671.8	2554.2	2460.1	2387.3	2358.6	2369.7
10°	3085.0	3064.4	2946.1	2789.4	2624.8	2449.1	2279.9	2147.6	2026.3	1963.8	1965.3
12.5°	3068.9	3035.1	2865.2	2662.3	2420.4	2185.1	1926.3	1747.7	1607.2	1524.1	1498.4
15°	3054.9	2996.1	2770.3	2489.5	2188.8	1852.8	1537.3	1316.8	1199.2	1133.7	1133.0
17.5°	3040.2	2958.6	2666.7	2306.4	1922.7	1490.3	1159.5	991.1	935.9	942.6	931.5
20°	3024.7	2914.5	2558.6	2102.7	1598.4	1111.7	868.3	799.9	815.3	845.5	849.9
22.5°	3007.1	2867.4	2442.4	1878.5	1257.3	836.7	704.4	694.1	733.7	780.8	787.5
25°	2979.9	2808.6	2296.1	1644.0	969.7	674.2	616.8	624.2	663.2	702.9	707.3
27.5°	2941.7	2735.8	2148.3	1351.4	728.6	578.6	563.9	573.5	592.6	616.8	622.7
30°	2890.2	2653.4	1978.5	1098.5	583.8	530.9	524.9	530.1	541.1	551.4	554.4
32.5°	2838.8	2574.0	1807.2	841.1	520.5	499.2	493.4	493.4	493.4	494.8	495.6
35°	2790.9	2499.0	1623.4	655.1	487.5	474.3	466.1	457.4	455.9	450.7	450.7
37.5°	2764.5	2430.7	1427.8	548.5	463.2	453.7	442.6	427.9	419.8	420.5	419.1
40°	2769.6	2385.8	1249.9	488.2	443.3	433.1	416.2	399.3	394.1	394.1	392.6
42.5°	2827.7	2371.2	1079.3	456.6	424.2	412.5	391.1	375.7	372.8	372.0	373.5
45°	2961.5	2407.2	926.4	436.0	408.0	390.4	369.1	355.1	352.2	352.2	351.4
47.5°	3222.5	2524.1	816.8	422.7	396.3	373.5	351.4	337.5	332.3	330.8	330.8
50°	3628.3	2777.7	735.2	411.0	381.6	358.1	335.3	319.1	311.0	310.3	309.5
52.5°	4192.3	3173.3	703.6	402.1	365.4	341.9	316.9	301.5	291.1	288.9	287.4
55°	4851.8	3725.4	747.0	395.6	348.5	323.5	297.8	281.6	272.0	267.6	266.9
57.5°	5615.7	4388.6	911.7	386.7	333.1	303.6	278.7	262.5	252.2	247.0	245.5
60°	6301.7	5070.2	1199.2	381.6	319.9	282.3	256.6	241.9	232.3	227.1	226.4
62.5°	7055.3	5720.1	1542.5	395.6	314.0	261.8	236.0	222.8	214.7	209.5	209.5
65°	7860.4	6370.8	1769.7	442.6	322.8	245.5	213.9	203.0	195.6	191.9	191.1
67.5°	8403.0	6595.8	1457.9	491.1	344.8	227.9	192.6	183.8	179.4	175.7	175.7
69°	8344.2	6311.2	1075.7	503.6	351.4	219.1	180.9	174.2	168.3	166.9	165.4
70°	8158.2	5987.0	901.4	495.6	346.3	211.0	173.5	165.4	160.3	158.8	158.1
72.5°	7266.3	5192.2	671.3	430.9	294.8	183.1	153.7	146.3	141.9	139.7	139.7
75°	6037.0	4243.8	524.2	342.6	230.8	154.4	131.6	125.7	122.1	120.6	119.9
77.5°	3383.6	2369.7	376.5	268.3	175.0	125.0	110.2	105.2	101.5	100.0	100.0
80°	942.6	677.1	221.3	177.2	119.1	94.8	87.5	83.8	78.7	75.0	77.2
82.5°	355.1	293.4	126.5	106.6	75.7	63.3	61.0	58.1	55.9	50.7	50.7
85°	172.8	142.7	80.9	56.6	41.9	33.1	31.6	30.1	28.7	25.0	25.8
87.5°	59.6	63.3	35.3	20.6	12.5	8.1	6.7	3.7	3.7	3.7	3.7
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)