

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: P451709

Luminaire Tested: **GALN-SA2C-760-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13839 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

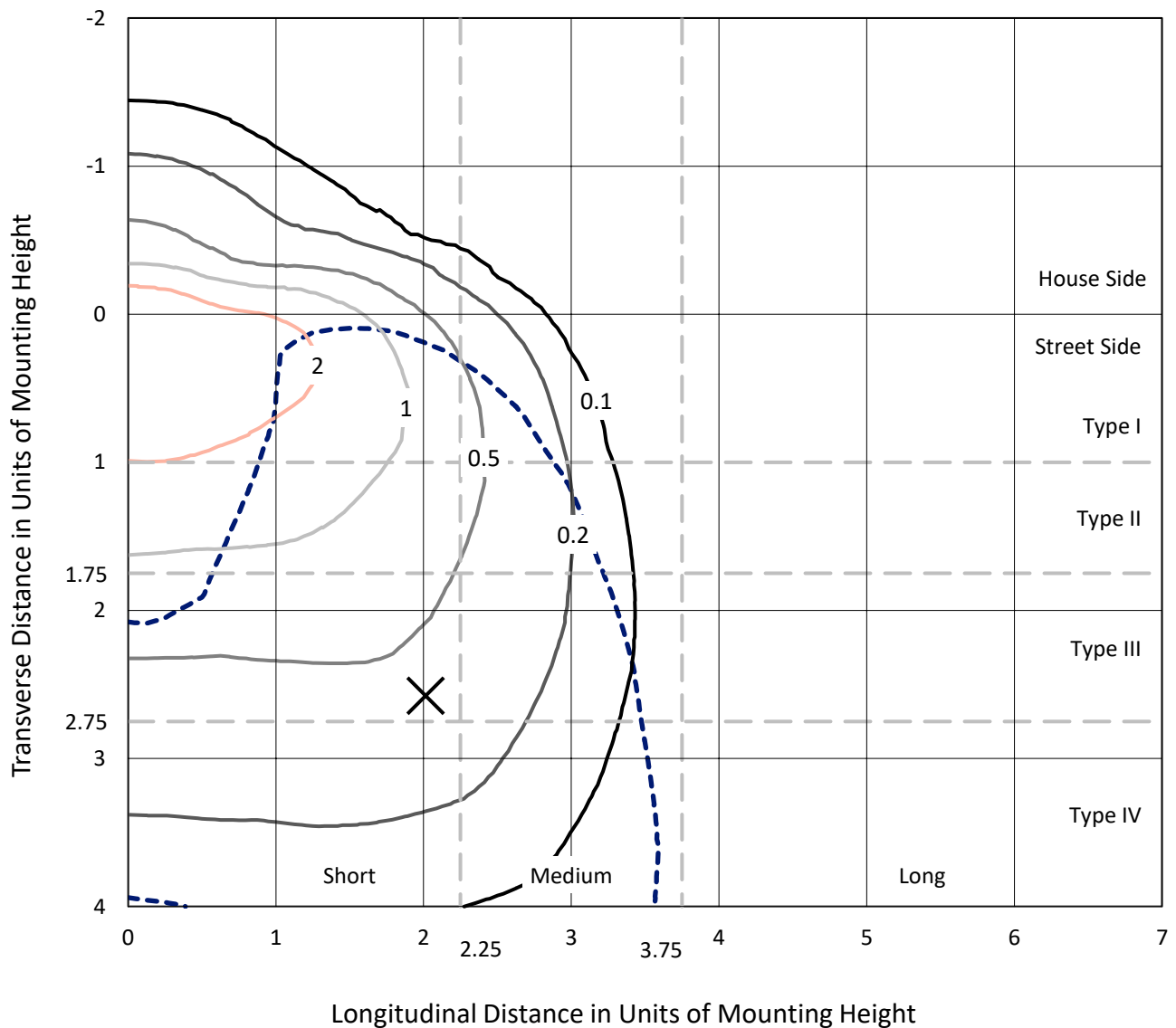
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

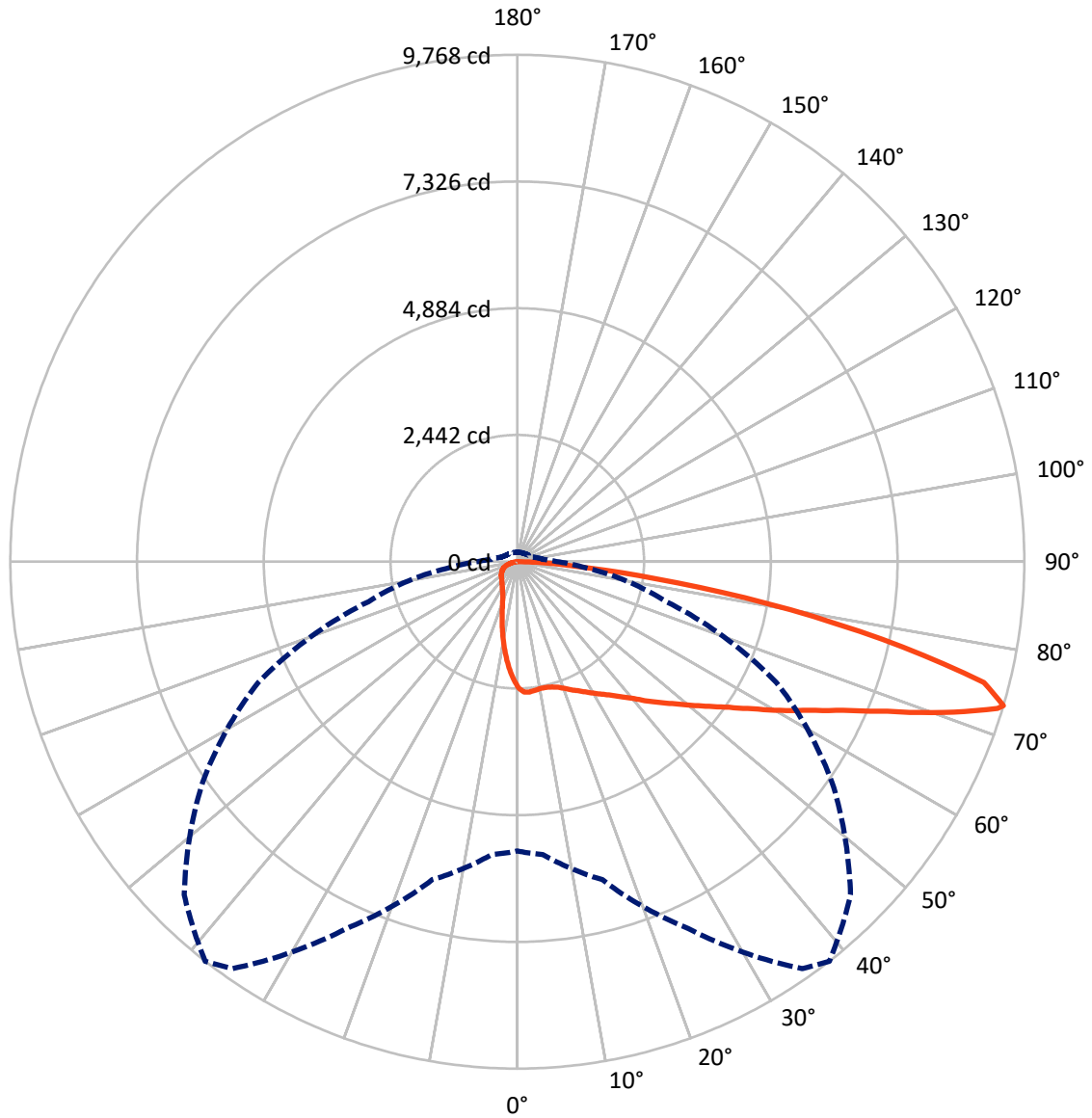
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1860.4	0.0	1860.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	11978.6	0.0	11978.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	13839.0	0.0	13839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.2	1.5
10°-20°	544.2	3.9
20°-30°	847.4	6.1
30°-40°	1243.0	9.0
40°-50°	1843.9	13.3
50°-60°	2612.4	18.9
60°-70°	3313.9	23.9
70°-80°	2758.5	19.9
80°-90°	463.5	3.3
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°	13839.0	100.0
0°-180°	13839.0	100.0

Coefficient of Utilization



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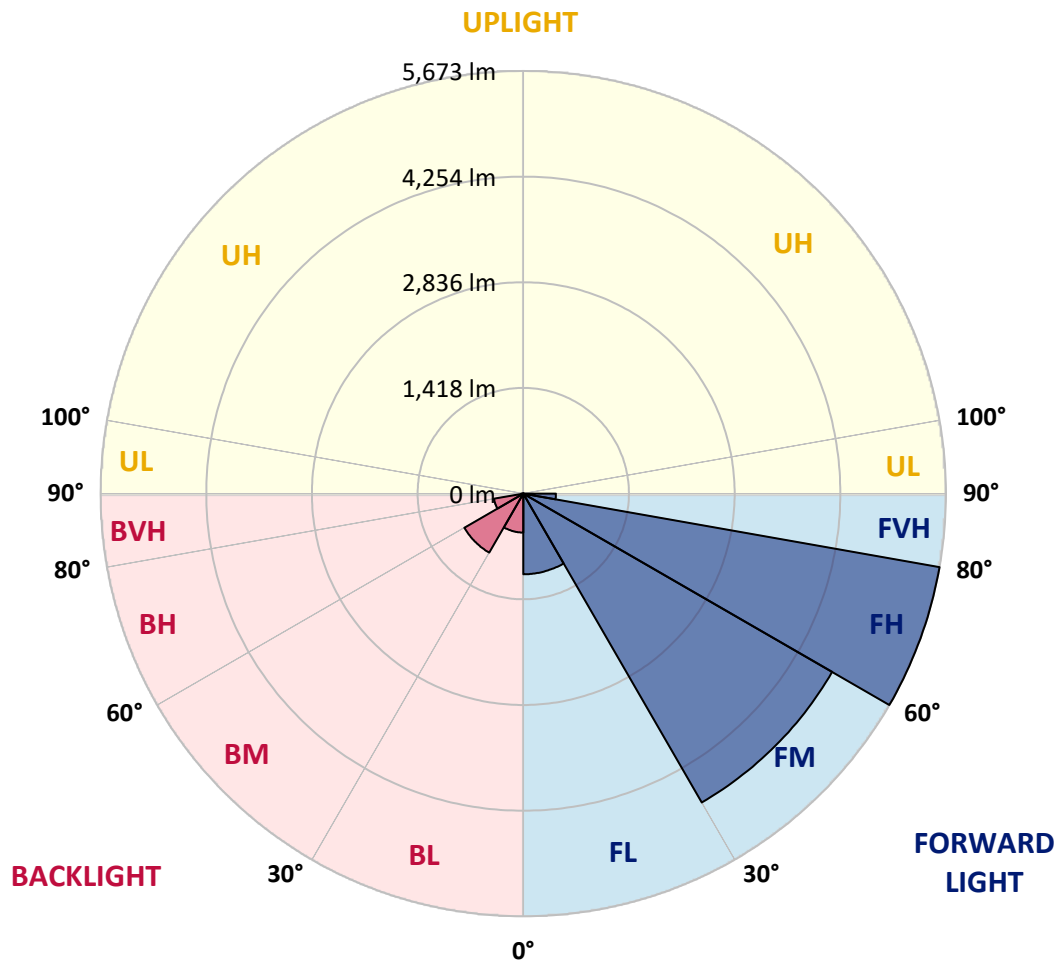
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1081.8	7.8			
FM (30°-60°)	4785.9	34.6			
FH (60°-80°)	5672.5	41.0			G3/7500
FVH (80°-90°)	438.3	3.2			G3/500
BL (0°-30°)	522.0	3.8	B2/1000		
BM (30°-60°)	913.3	6.6	B1/1000		
BH (60°-80°)	399.9	2.9	B1/500		G1/500
BVH (80°-90°)	25.1	0.2			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3
2.5°	2529.0	2541.5	2535.2	2526.6	2521.2	2515.7	2507.9	2485.2	2467.2	2447.7	2417.2
5°	2547.7	2555.5	2550.1	2539.1	2526.6	2521.2	2506.3	2476.6	2447.7	2414.9	2369.5
7.5°	2536.8	2539.9	2533.7	2520.4	2509.4	2499.3	2482.1	2449.3	2414.1	2374.2	2314.8
10°	2497.7	2509.4	2509.4	2498.5	2487.5	2482.1	2464.9	2433.6	2401.6	2356.3	2285.9
12.5°	2465.7	2478.2	2488.3	2485.2	2484.4	2484.4	2471.1	2447.7	2410.2	2367.2	2283.6
15°	2443.8	2458.6	2480.5	2493.0	2500.8	2503.2	2497.7	2477.4	2439.1	2389.1	2293.0
17.5°	2439.1	2457.1	2496.9	2524.3	2544.6	2543.8	2542.3	2514.1	2471.9	2420.3	2304.7
20°	2460.2	2483.6	2539.1	2582.1	2611.8	2606.3	2597.7	2561.0	2511.8	2453.9	2315.6
22.5°	2523.5	2547.7	2608.7	2655.6	2684.5	2684.5	2658.7	2610.2	2557.9	2493.0	2330.5
25°	2614.2	2640.7	2705.6	2753.3	2766.5	2756.4	2730.6	2672.0	2611.8	2549.3	2361.7
27.5°	2725.1	2757.2	2817.3	2857.2	2853.3	2845.5	2818.9	2743.9	2683.7	2626.7	2414.9
30°	2863.5	2886.9	2949.4	2958.8	2944.7	2943.2	2905.7	2830.6	2774.4	2730.6	2490.7
32.5°	2994.0	3015.1	3065.1	3069.0	3044.0	3047.1	3011.9	2943.2	2911.1	2895.5	2618.1
35°	3132.3	3143.2	3186.2	3181.5	3165.1	3162.8	3148.7	3083.1	3093.2	3121.4	2798.6
37.5°	3248.0	3269.8	3294.1	3298.0	3297.2	3305.0	3314.4	3283.1	3341.7	3430.0	3035.4
40°	3354.2	3373.0	3408.9	3421.5	3451.9	3467.6	3499.6	3500.4	3635.6	3780.9	3326.9
42.5°	3426.1	3458.2	3525.4	3548.1	3622.3	3669.2	3716.9	3767.7	3963.8	4150.6	3670.8
45°	3488.7	3530.9	3642.6	3713.0	3813.8	3870.8	3971.6	4077.9	4360.0	4604.7	4020.1
47.5°	3583.2	3620.7	3748.9	3873.2	4025.6	4091.2	4242.0	4400.7	4769.6	5037.6	4354.6
50°	3714.5	3737.2	3867.7	4070.1	4264.7	4349.1	4548.4	4777.4	5207.2	5465.1	4648.4
52.5°	3882.5	3891.9	3995.9	4265.5	4521.8	4626.5	4890.7	5158.0	5590.1	5836.3	4881.3
55°	4081.0	4065.4	4146.7	4472.6	4815.7	4952.4	5236.1	5543.3	6020.8	6136.4	5050.9
57.5°	4277.2	4253.0	4317.8	4724.2	5178.3	5343.2	5673.8	5940.3	6405.3	6417.0	5169.7
60°	4485.1	4467.1	4544.5	5019.6	5623.0	5818.3	6123.9	6352.1	6777.3	6612.4	5188.4
62.5°	4698.4	4669.5	4779.7	5351.8	6123.9	6301.3	6597.5	6789.8	7142.2	6685.0	5007.9
65°	4905.5	4892.3	5062.6	5746.4	6694.4	6896.0	7183.6	7314.2	7434.5	6575.6	4560.1
67.5°	5125.9	5152.5	5424.5	6273.2	7438.4	7691.6	8001.9	7879.2	7518.1	6057.5	3840.3
70°	5462.0	5479.2	5899.6	6963.3	8397.3	8702.9	8852.9	8080.0	7114.9	5073.6	2886.9
72.5°	5606.6	5682.4	6324.0	7687.7	9486.8	9673.5	9139.0	7632.2	5927.0	3446.5	1516.9
73°	5574.5	5665.2	6343.5	7797.9	9571.9	9768.1	9078.0	7401.7	5509.6	2968.2	1300.4
75°	5175.2	5286.9	6089.5	7705.7	9406.3	9289.0	8098.0	6308.3	3723.1	1349.7	592.4
77.5°	4083.4	4115.4	4825.0	6222.4	7407.2	7189.9	6060.6	3942.7	1520.8	501.7	336.0
80°	2048.3	2166.3	2719.7	3564.5	4953.2	4882.1	3825.5	1864.7	633.8	294.6	222.7
82.5°	985.5	1069.1	1324.7	1738.1	2736.8	2672.0	1894.4	1019.1	402.5	171.9	131.3
85°	634.6	697.1	843.2	829.2	1125.4	1074.6	851.1	771.4	238.4	89.9	91.4
87.5°	418.9	458.7	550.2	440.0	409.5	370.4	375.9	434.5	46.9	34.4	12.5
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°	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3	2431.3
2.5°	2404.7	2394.5	2360.9	2328.1	2296.9	2267.2	2247.6	2221.8	2204.6	2209.3	2216.4
5°	2344.5	2321.9	2262.5	2204.6	2149.9	2085.1	2032.7	1990.5	1958.5	1946.7	1944.4
7.5°	2281.2	2242.9	2157.7	2058.5	1965.5	1885.0	1792.0	1745.9	1692.0	1673.2	1667.0
10°	2242.9	2191.4	2071.8	1933.5	1793.6	1659.9	1559.1	1477.1	1402.8	1388.7	1381.7
12.5°	2232.0	2164.0	2003.0	1824.8	1638.8	1474.7	1325.4	1217.6	1145.7	1129.3	1105.1
15°	2225.7	2141.3	1938.9	1715.4	1479.4	1279.3	1122.2	996.4	930.8	887.0	887.8
17.5°	2220.3	2115.5	1867.0	1595.8	1341.9	1111.3	937.8	824.5	764.3	740.9	738.5
20°	2212.5	2085.1	1784.2	1470.0	1184.8	958.1	801.0	716.6	676.0	656.5	655.7
22.5°	2209.3	2055.4	1702.9	1341.9	1045.7	840.1	710.4	651.0	625.2	611.9	611.9
25°	2217.1	2034.3	1617.7	1219.9	922.2	739.3	647.9	607.2	592.4	585.4	583.0
27.5°	2241.4	2024.9	1533.3	1098.0	808.9	670.5	605.7	577.5	566.6	561.1	561.9
30°	2287.5	2024.1	1450.5	977.7	724.5	618.2	572.1	552.5	543.9	540.8	540.0
32.5°	2361.7	2041.3	1369.2	878.4	653.3	574.4	540.8	526.7	522.8	520.5	519.7
35°	2487.5	2089.8	1288.7	787.8	598.6	535.3	511.1	504.1	498.6	500.9	501.7
37.5°	2657.1	2173.4	1212.1	716.6	557.2	506.4	486.1	479.8	476.7	479.1	481.4
40°	2884.6	2293.7	1148.0	659.6	527.5	482.2	464.2	458.7	455.6	459.5	460.3
42.5°	3135.4	2432.8	1094.9	615.0	503.3	461.9	444.7	438.4	436.1	438.4	439.2
45°	3393.3	2594.6	1067.5	583.0	483.0	447.0	429.0	422.0	416.5	415.0	417.3
47.5°	3647.3	2735.3	1066.8	563.5	466.6	433.7	414.2	406.4	399.4	395.4	394.7
50°	3854.4	2847.0	1085.5	554.9	452.5	418.9	399.4	391.5	382.2	374.3	375.9
52.5°	4010.7	2919.7	1094.1	551.0	444.7	403.3	383.7	376.7	365.7	355.6	355.6
55°	4111.5	2936.9	1073.0	547.1	438.4	386.8	365.7	359.5	348.6	338.4	338.4
57.5°	4145.9	2883.8	997.2	537.7	432.2	372.8	347.8	342.3	333.7	323.5	322.0
60°	4066.2	2704.0	864.4	509.5	419.7	357.9	328.2	325.9	322.8	314.2	313.4
62.5°	3759.1	2322.6	719.8	472.8	398.6	342.3	310.3	314.2	316.5	311.8	311.0
65°	3248.0	1885.8	615.0	422.0	370.4	320.4	290.7	300.9	307.1	307.1	305.6
67.5°	2634.5	1448.1	518.1	378.3	335.3	290.7	268.8	276.7	281.3	279.8	283.7
70°	1872.5	980.8	422.0	328.2	290.7	257.1	240.7	240.7	237.6	236.0	236.0
72.5°	908.1	560.3	342.3	274.3	247.7	219.6	206.3	200.8	194.6	193.8	189.9
73°	758.8	502.5	326.7	264.2	237.6	214.1	199.3	190.7	186.8	183.7	182.9
75°	461.9	381.4	272.7	222.7	202.4	184.4	171.2	163.3	159.4	157.1	156.3
77.5°	304.0	284.5	211.8	170.4	154.7	143.8	138.3	130.5	128.2	125.0	125.0
80°	226.6	217.3	151.6	120.4	111.0	101.6	100.0	98.5	92.2	88.3	86.7
82.5°	146.1	154.7	103.2	80.5	70.3	62.5	63.3	65.6	59.4	53.9	52.4
85°	103.9	111.8	62.5	36.7	29.7	25.8	28.9	25.8	26.6	21.1	17.2
87.5°	17.2	29.7	10.9	4.7	2.3	1.6	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)