

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: P458694

Luminaire Tested: **GALN-SA2C-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458694
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-SA2C-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA 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: 13146 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

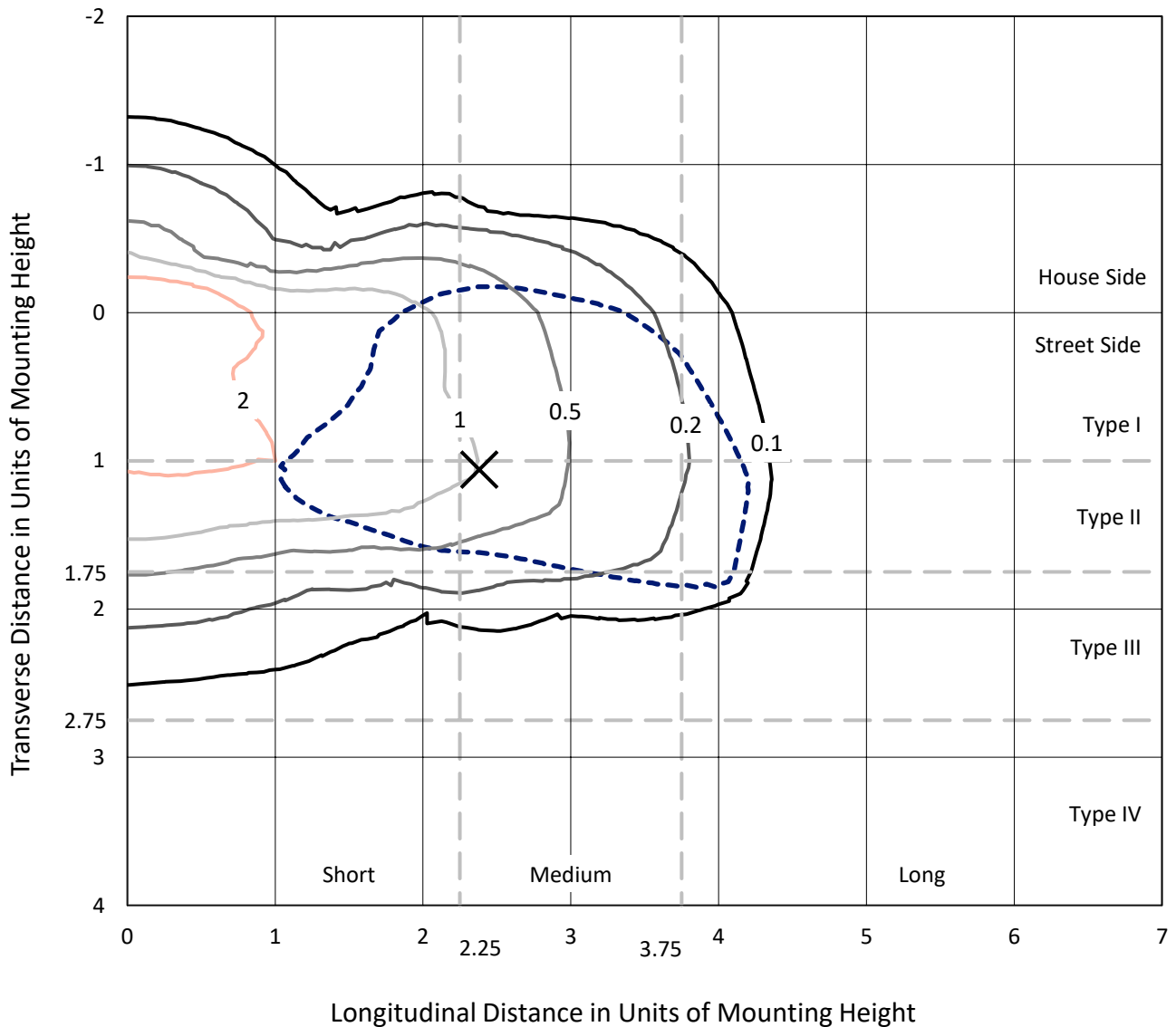
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

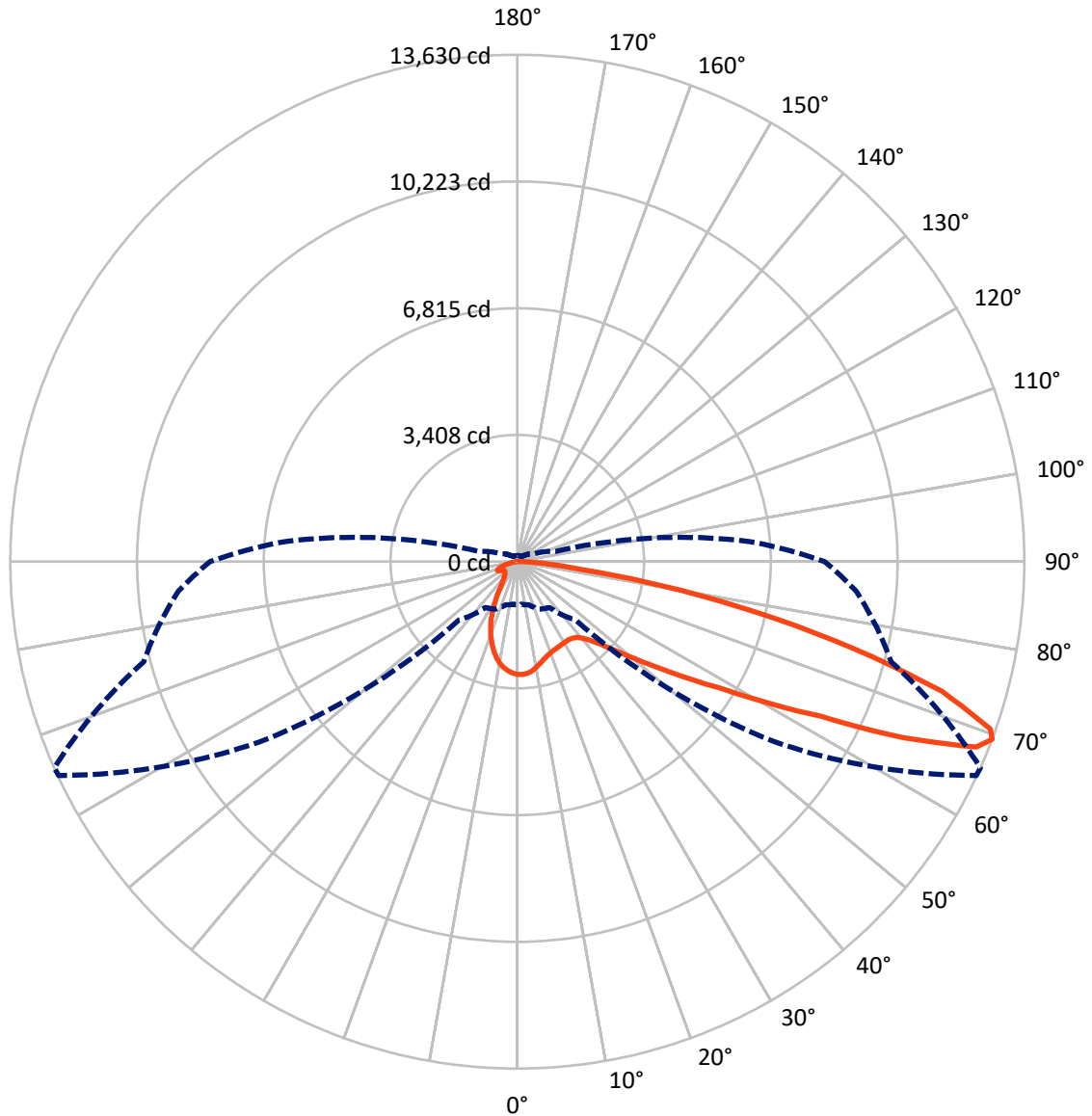
× Max cd
 - - - 1/2 Max cd



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	2472.3	0.0	2472.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10673.7	0.0	10673.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	13146.0	0.0	13146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.6	2.0
10°-20°	625.3	4.8
20°-30°	851.3	6.5
30°-40°	1143.9	8.7
40°-50°	1708.0	13.0
50°-60°	2716.9	20.7
60°-70°	3341.7	25.4
70°-80°	2174.2	16.5
80°-90°	321.1	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°	13146.0	100.0
0°-180°	13146.0	100.0

Coefficient of Utilization



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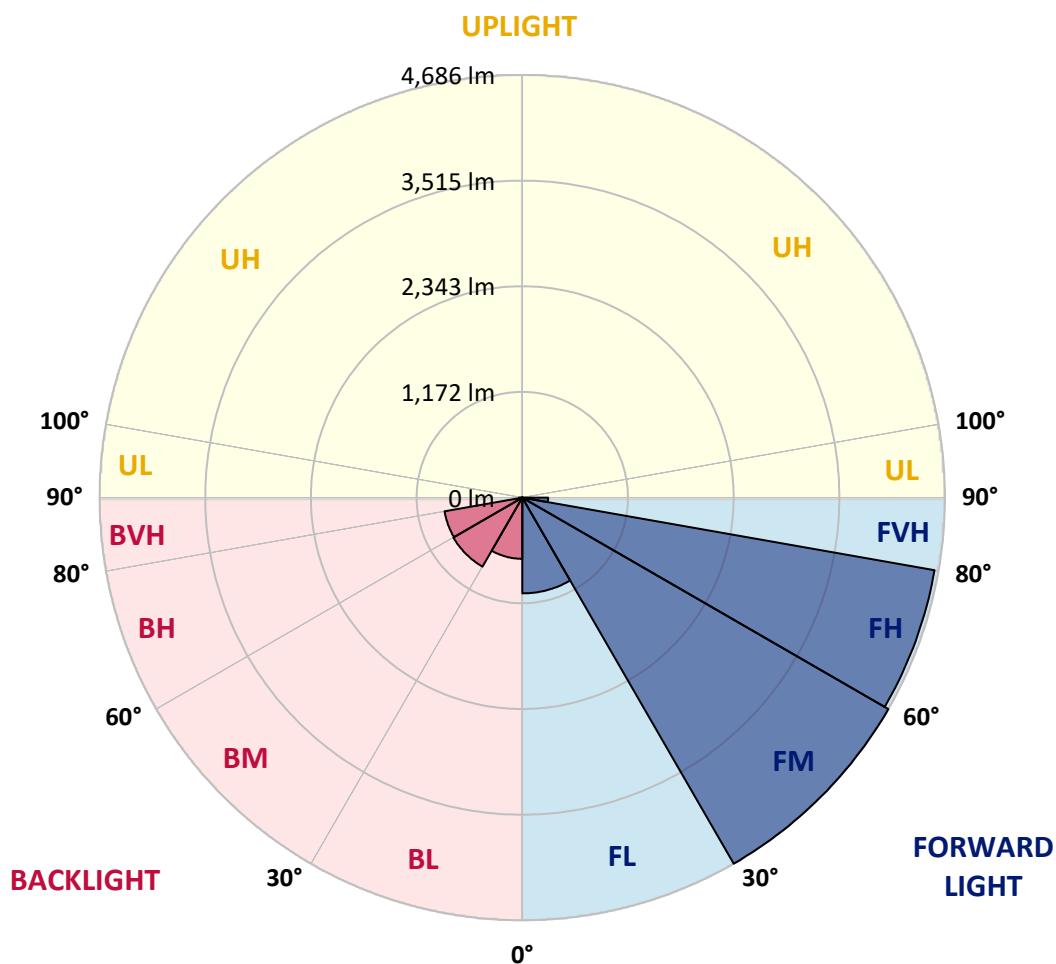
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1061.5	8.1			
FM	(30°-60°)	4686.2	35.6			
FH	(60°-80°)	4640.6	35.3			G2/5000
FVH	(80°-90°)	285.4	2.2			G3/500
BL	(0°-30°)	678.6	5.2	B2/1000		
BM	(30°-60°)	882.7	6.7	B1/1000		
BH	(60°-80°)	875.3	6.7	B2/1000		G2/1000
BVH	(80°-90°)	35.6	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°	3035.8	3035.8	3035.8	3035.8	3035.8	3035.8	3035.8	3035.8	3035.8	3035.8	3035.8
2.5°	2929.5	2941.1	2954.2	2968.8	2996.5	3011.8	3022.7	3035.0	3036.5	3043.1	3038.0
5°	2713.3	2727.1	2746.8	2774.4	2815.9	2880.7	2947.7	3002.3	3008.8	3039.4	3048.2
7.5°	2532.7	2540.7	2556.8	2601.2	2660.1	2732.2	2829.8	2940.4	2956.4	3029.2	3054.7
10°	2385.7	2393.7	2412.6	2458.5	2516.7	2607.0	2714.0	2859.6	2872.7	2997.9	3056.2
12.5°	2275.7	2283.0	2303.4	2348.5	2415.5	2500.0	2617.9	2772.2	2791.2	2956.4	3042.3
15°	2192.0	2205.9	2222.6	2259.7	2330.3	2411.9	2526.2	2692.2	2707.4	2912.7	3032.9
17.5°	2156.3	2162.9	2174.5	2208.8	2260.5	2340.5	2455.6	2629.6	2647.8	2882.2	3030.7
20°	2157.8	2164.4	2166.5	2185.5	2222.6	2291.8	2405.3	2580.0	2601.9	2855.2	3034.3
22.5°	2207.3	2208.0	2200.0	2193.5	2208.0	2265.5	2369.7	2542.9	2568.4	2843.6	3037.2
25°	2283.7	2296.9	2285.2	2254.6	2227.7	2255.4	2355.8	2522.5	2546.6	2826.8	3033.6
27.5°	2407.5	2409.7	2400.2	2358.7	2288.8	2268.5	2350.0	2507.2	2527.6	2814.5	3015.4
30°	2573.5	2566.9	2558.2	2512.3	2402.4	2318.7	2362.4	2493.4	2514.5	2796.3	2993.6
32.5°	2741.7	2762.0	2754.0	2700.2	2557.5	2416.2	2402.4	2492.0	2509.4	2782.4	2969.5
35°	2920.0	2929.5	2967.3	2939.7	2793.4	2574.2	2477.4	2514.5	2528.4	2783.2	2952.8
37.5°	3059.8	3085.3	3174.1	3198.1	3060.5	2783.2	2599.0	2578.6	2584.4	2818.8	2959.3
40°	3228.7	3272.4	3386.7	3485.0	3394.7	3054.7	2805.7	2697.3	2704.5	2904.7	3002.3
42.5°	3442.7	3473.3	3626.9	3760.1	3745.6	3413.6	3056.2	2891.6	2895.3	3075.8	3122.4
45°	3693.2	3736.8	3909.4	4109.6	4143.8	3819.8	3418.0	3185.7	3183.6	3341.5	3346.6
47.5°	4013.5	4040.4	4211.5	4429.9	4568.2	4330.2	3857.0	3608.0	3584.7	3728.8	3687.3
50°	4308.3	4350.6	4480.1	4718.9	5063.3	4927.9	4434.3	4155.4	4100.8	4235.5	4165.6
52.5°	4432.1	4476.5	4585.7	4882.0	5487.7	5701.0	5167.4	4808.5	4717.5	4820.8	4795.4
55°	4217.3	4274.8	4376.8	4737.1	5674.1	6592.8	6156.0	5563.4	5497.2	5452.7	5460.0
57.5°	3640.0	3694.6	3832.2	4229.7	5451.3	7240.0	7567.6	6533.8	6391.9	6187.3	6222.3
60°	2770.8	2805.0	2876.3	3316.8	4791.0	7408.2	9170.7	7760.5	7670.3	6918.9	6943.7
62.5°	1967.8	2006.4	2055.9	2275.7	3507.5	6934.2	10425.7	9473.5	9151.0	7676.8	7652.8
65°	1598.0	1571.8	1631.5	1734.1	2058.1	5374.1	10708.2	11851.2	11407.1	8674.9	8341.5
67.5°	1314.0	1286.4	1345.4	1528.1	1565.2	3119.5	9690.5	13394.5	13305.7	9760.3	9041.1
69°	1163.4	1148.8	1200.5	1408.7	1502.6	2215.3	8441.9	13609.3	13630.4	10400.3	9148.8
70°	1048.3	1054.1	1104.4	1348.3	1474.2	1826.6	7215.2	13313.0	13492.1	10719.9	9032.3
72.5°	771.7	784.1	853.9	1116.8	1447.3	1549.9	4293.8	11628.4	11945.1	10738.8	8262.8
75°	539.5	533.6	595.5	840.8	1367.2	1536.1	2521.8	8993.0	9351.9	9282.1	6943.0
77.5°	353.1	362.5	412.1	594.1	1150.2	1524.4	1643.8	6380.2	6613.2	6207.7	4106.7
80°	249.0	248.2	275.9	405.5	853.2	1464.7	1346.1	4021.5	3962.5	2439.5	1218.0
82.5°	142.7	152.9	184.9	285.4	570.8	1289.3	1238.3	1923.4	1755.9	695.2	411.3
85°	79.4	83.0	109.9	172.5	333.4	971.2	1081.1	875.1	825.6	290.5	176.9
87.5°	25.5	27.7	45.9	87.4	151.4	458.6	612.3	404.0	372.7	104.8	71.3
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°	3035.8	3035.8	3035.8	3035.8	3035.8	3035.8	3035.8	3035.8	3035.8	3035.8	3035.8
2.5°	3040.1	3048.9	3025.6	3003.0	2982.6	2954.2	2928.8	2907.6	2893.1	2890.9	2883.6
5°	3050.3	3051.1	3006.7	2947.0	2888.7	2824.7	2758.4	2711.1	2666.7	2641.9	2629.6
7.5°	3057.6	3051.1	2971.0	2874.2	2762.0	2645.6	2529.1	2435.9	2363.8	2335.4	2346.4
10°	3054.7	3034.3	2917.1	2762.0	2599.0	2425.0	2257.5	2126.5	2006.4	1944.5	1946.0
12.5°	3038.7	3005.2	2837.0	2636.1	2396.6	2163.6	1907.4	1730.5	1591.4	1509.2	1483.7
15°	3024.9	2966.6	2743.1	2465.0	2167.3	1834.6	1522.3	1303.9	1187.4	1122.6	1121.9
17.5°	3010.3	2929.5	2640.5	2283.7	1903.7	1475.7	1148.1	981.3	926.7	933.3	922.4
20°	2995.0	2885.8	2533.5	2082.1	1582.7	1100.7	859.8	792.1	807.4	837.2	841.6
22.5°	2977.5	2839.2	2418.4	1860.1	1244.9	828.5	697.4	687.2	726.5	773.1	779.7
25°	2950.6	2781.0	2273.6	1627.8	960.2	667.6	610.8	618.1	656.7	696.0	700.3
27.5°	2912.7	2708.9	2127.2	1338.1	721.5	572.9	558.4	567.8	586.8	610.8	616.6
30°	2861.8	2627.4	1959.1	1087.6	578.0	525.6	519.8	524.9	535.8	546.0	548.9
32.5°	2810.8	2548.7	1789.4	832.8	515.4	494.3	488.5	488.5	488.5	489.9	490.7
35°	2763.5	2474.5	1607.4	648.7	482.7	469.6	461.6	452.8	451.4	446.3	446.3
37.5°	2737.3	2406.8	1413.8	543.1	458.6	449.2	438.3	423.7	415.7	416.4	415.0
40°	2742.4	2362.4	1237.6	483.4	439.0	428.8	412.1	395.3	390.2	390.2	388.8
42.5°	2799.9	2347.8	1068.7	452.1	420.1	408.4	387.3	372.0	369.1	368.4	369.8
45°	2932.4	2383.5	917.3	431.7	404.0	386.6	365.5	351.6	348.7	348.7	348.0
47.5°	3190.8	2499.2	808.8	418.6	392.4	369.8	348.0	334.2	329.1	327.6	327.6
50°	3592.7	2750.4	728.0	407.0	377.8	354.5	332.0	316.0	307.9	307.2	306.5
52.5°	4151.1	3142.1	696.7	398.2	361.8	338.5	313.8	298.5	288.3	286.1	284.6
55°	4804.1	3688.8	739.7	391.7	345.1	320.3	294.8	278.8	269.4	265.0	264.3
57.5°	5560.5	4345.5	902.7	382.9	329.8	300.7	275.9	259.9	249.7	244.6	243.2
60°	6239.7	5020.3	1187.4	377.8	316.7	279.6	254.1	239.5	230.0	225.0	224.2
62.5°	6985.9	5663.9	1527.4	391.7	310.9	259.2	233.7	220.6	212.6	207.5	207.5
65°	7783.1	6308.2	1752.3	438.3	319.6	243.2	211.8	200.9	193.6	190.0	189.3
67.5°	8320.4	6530.9	1443.6	486.3	341.4	225.7	190.7	182.0	177.6	174.0	174.0
69°	8262.1	6249.2	1065.1	498.7	348.0	216.9	179.1	172.5	166.7	165.3	163.8
70°	8077.9	5928.1	892.5	490.7	342.9	208.9	171.8	163.8	158.7	157.2	156.5
72.5°	7194.9	5141.2	664.7	426.6	291.9	181.3	152.2	144.9	140.5	138.3	138.3
75°	5977.6	4202.0	519.1	339.2	228.6	152.9	130.3	124.5	120.8	119.4	118.7
77.5°	3350.3	2346.4	372.7	265.7	173.3	123.8	109.2	104.1	100.5	99.0	99.0
80°	933.3	670.5	219.1	175.4	117.9	93.9	86.6	83.0	77.9	74.3	76.4
82.5°	351.6	290.5	125.2	105.6	75.0	62.6	60.4	57.5	55.3	50.2	50.2
85°	171.1	141.2	80.1	56.1	41.5	32.8	31.3	29.8	28.4	24.8	25.5
87.5°	59.0	62.6	34.9	20.4	12.4	8.0	6.6	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)