

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: P458723

Luminaire Tested: **GALN-SA2D-735-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458723  
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-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 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: 14466 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

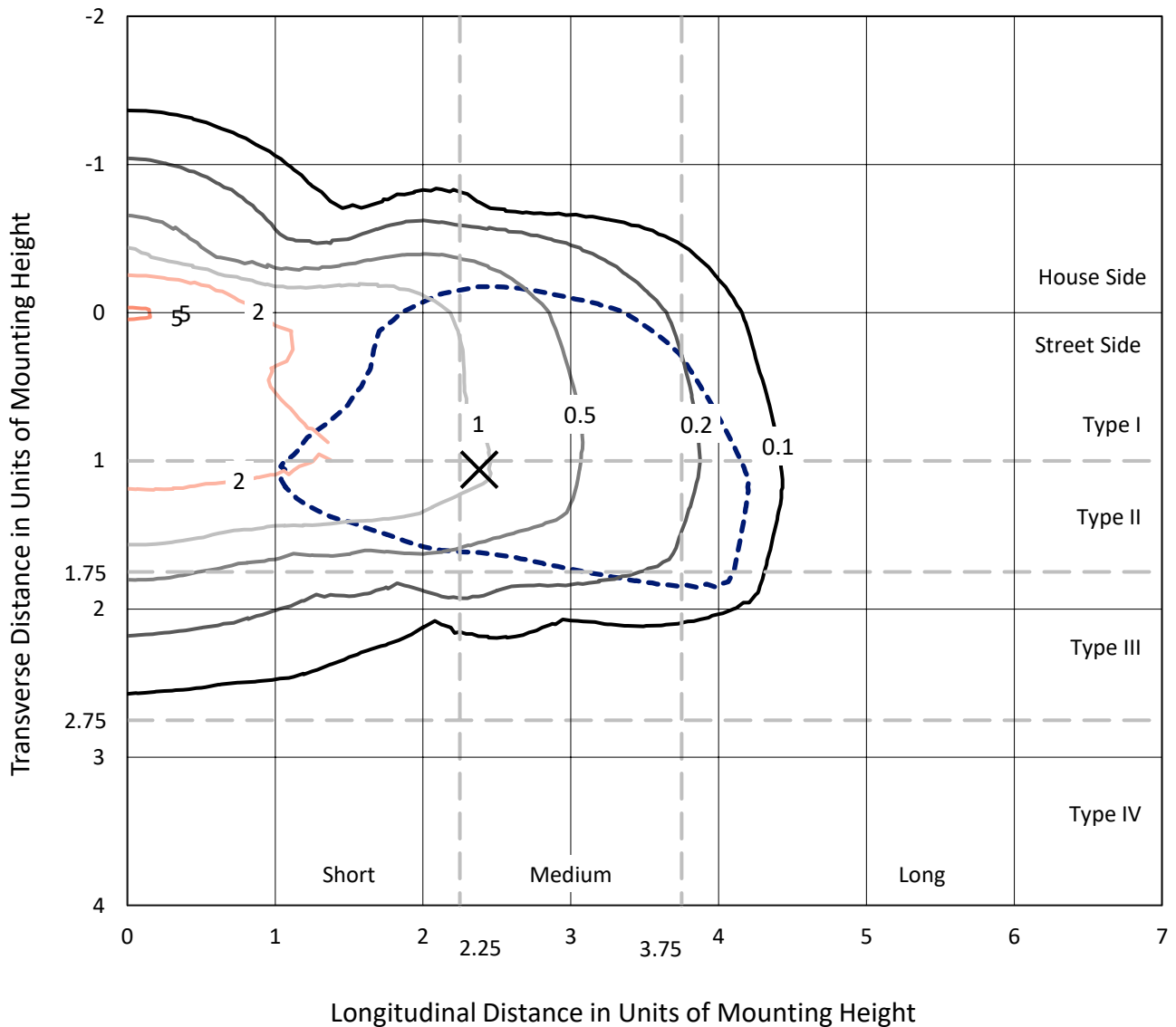
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

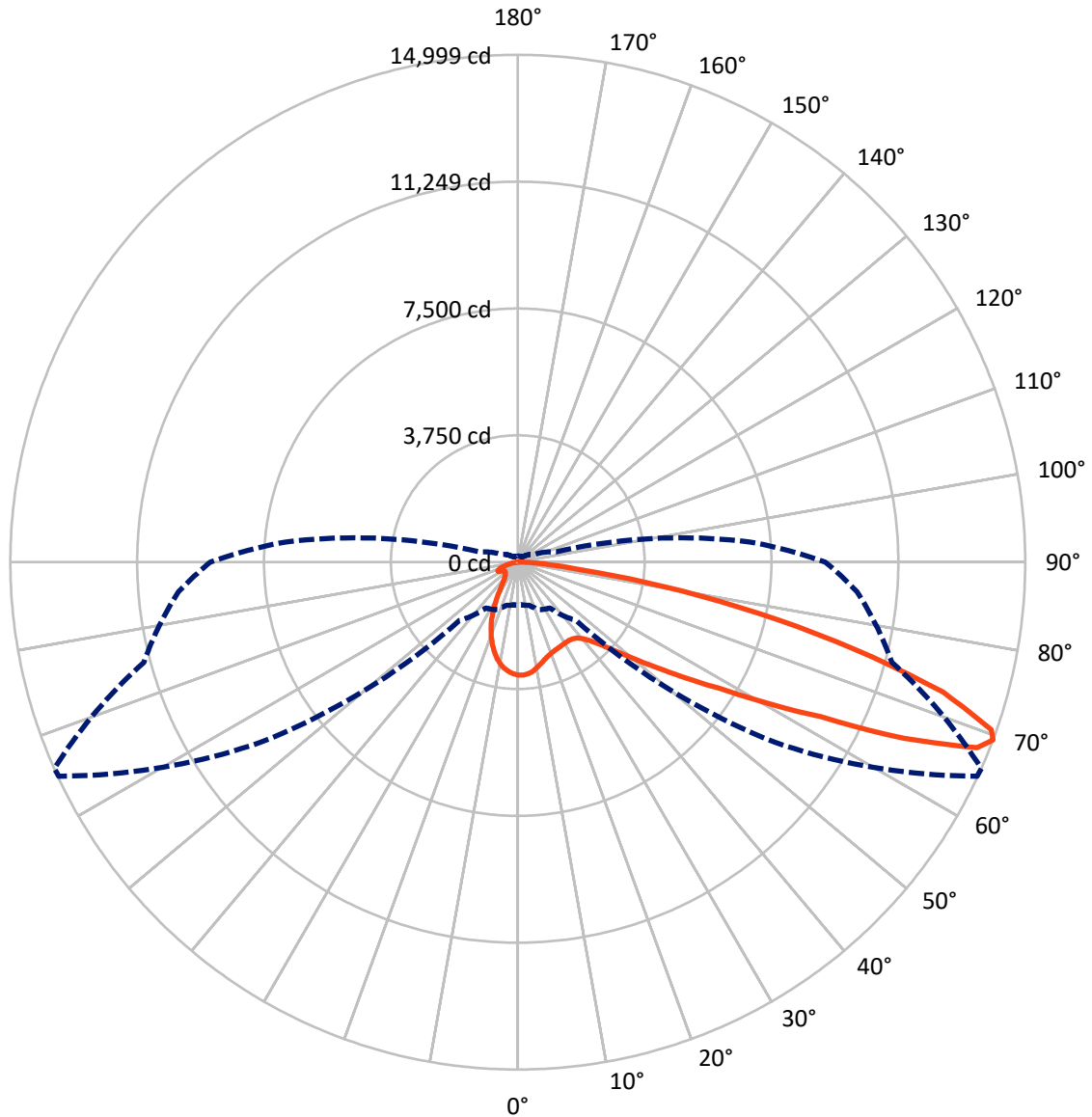
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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
<b>House Side</b>	Lumens	2720.5	0.0	2720.5
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	11745.5	0.0	11745.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	14466.0	0.0	14466.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.1	2.0
10°-20°	688.1	4.8
20°-30°	936.7	6.5
30°-40°	1258.8	8.7
40°-50°	1879.5	13.0
50°-60°	2989.7	20.7
60°-70°	3677.2	25.4
70°-80°	2392.5	16.5
80°-90°	353.3	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°	14466.0	100.0
0°-180°	14466.0	100.0

**Coefficient of Utilization**



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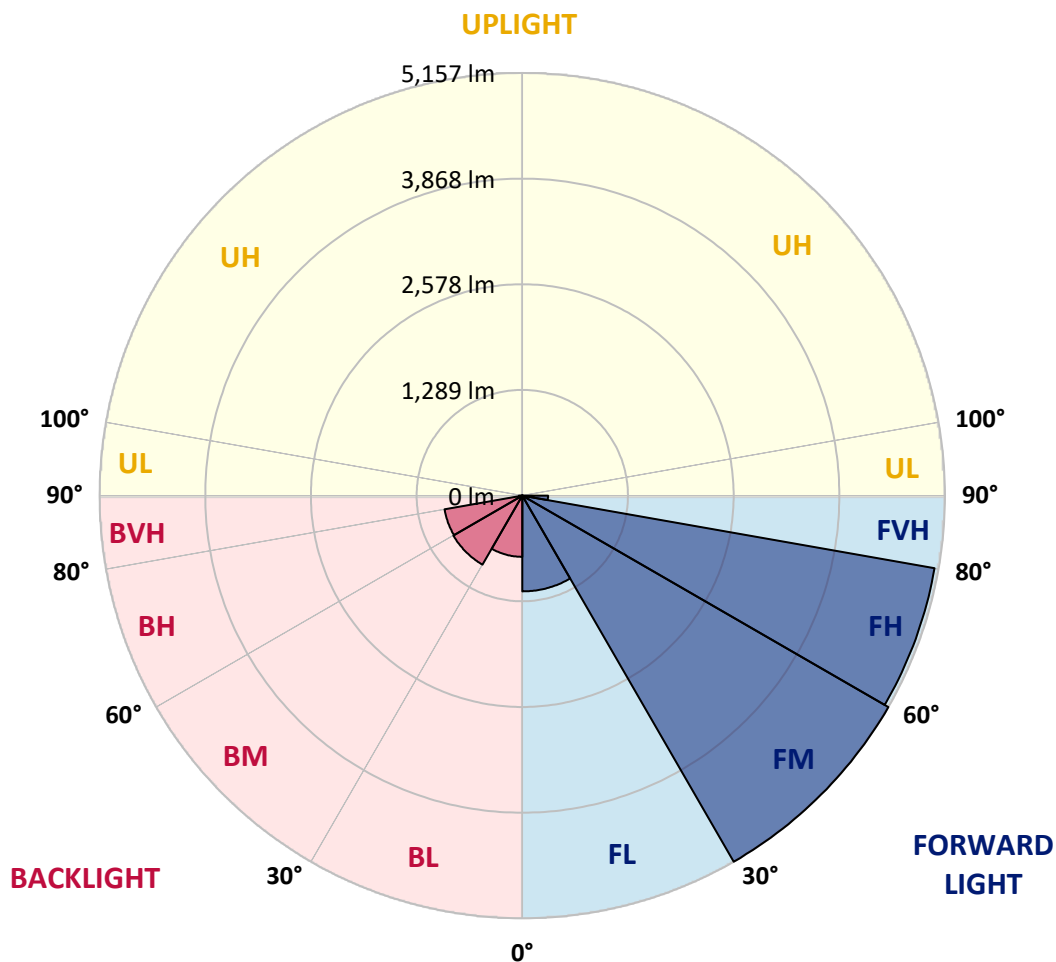
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1168.1	8.1			
FM	(30°-60°)	5156.7	35.6			
FH	(60°-80°)	5106.6	35.3			G3/7500
FVH	(80°-90°)	314.1	2.2			G3/500
BL	(0°-30°)	746.8	5.2	B2/1000		
BM	(30°-60°)	971.3	6.7	B1/1000		
BH	(60°-80°)	963.2	6.7	B2/1000		G2/1000
BVH	(80°-90°)	39.2	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°	3340.6	3340.6	3340.6	3340.6	3340.6	3340.6	3340.6	3340.6	3340.6	3340.6	3340.6
2.5°	3223.6	3236.5	3250.9	3266.9	3297.3	3314.2	3326.2	3339.8	3341.4	3348.6	3343.0
5°	2985.7	3000.9	3022.6	3053.0	3098.7	3170.0	3243.7	3303.8	3311.0	3344.6	3354.2
7.5°	2787.0	2795.9	2813.5	2862.3	2927.2	3006.5	3113.9	3235.7	3253.3	3333.4	3361.4
10°	2625.2	2634.0	2654.9	2705.3	2769.4	2868.8	2986.5	3146.7	3161.2	3298.9	3363.0
12.5°	2504.2	2512.3	2534.7	2584.4	2658.1	2751.0	2880.8	3050.6	3071.4	3253.3	3347.8
15°	2412.1	2427.3	2445.8	2486.6	2564.3	2654.1	2779.8	2962.5	2979.3	3205.2	3337.4
17.5°	2372.9	2380.1	2392.9	2430.5	2487.4	2575.5	2702.1	2893.6	2913.6	3171.6	3335.0
20°	2374.5	2381.7	2384.1	2404.9	2445.8	2521.9	2646.8	2839.1	2863.1	3141.9	3339.0
22.5°	2428.9	2429.7	2420.9	2413.7	2429.7	2493.0	2607.6	2798.3	2826.3	3129.1	3342.2
25°	2513.1	2527.5	2514.7	2481.0	2451.4	2481.8	2592.4	2775.8	2802.3	3110.7	3338.2
27.5°	2649.2	2651.7	2641.2	2595.6	2518.7	2496.2	2586.0	2759.0	2781.4	3097.1	3318.2
30°	2831.9	2824.7	2815.1	2764.6	2643.6	2551.5	2599.6	2743.8	2767.0	3077.0	3294.1
32.5°	3017.0	3039.4	3030.6	2971.3	2814.3	2658.9	2643.6	2742.2	2761.4	3061.8	3267.7
35°	3213.2	3223.6	3265.3	3234.9	3073.8	2832.7	2726.2	2767.0	2782.2	3062.6	3249.3
37.5°	3367.0	3395.1	3492.8	3519.2	3367.8	3062.6	2859.9	2837.5	2843.9	3101.9	3256.5
40°	3552.9	3601.0	3726.7	3834.9	3735.5	3361.4	3087.5	2968.1	2976.1	3196.4	3303.8
42.5°	3788.4	3822.1	3991.1	4137.7	4121.7	3756.4	3363.0	3182.0	3186.0	3384.7	3435.9
45°	4064.0	4112.1	4301.9	4522.2	4559.9	4203.4	3761.2	3505.6	3503.2	3677.1	3682.7
47.5°	4416.5	4446.1	4634.4	4874.7	5026.9	4765.0	4244.2	3970.3	3944.6	4103.3	4057.6
50°	4740.9	4787.4	4930.0	5192.8	5571.7	5422.7	4879.5	4572.7	4512.6	4660.8	4583.9
52.5°	4877.1	4926.0	5046.2	5372.2	6038.7	6273.4	5686.2	5291.3	5191.2	5304.9	5276.9
55°	4640.8	4704.1	4816.2	5212.8	6243.8	7254.8	6774.1	6122.0	6049.1	6000.3	6008.3
57.5°	4005.5	4065.6	4217.0	4654.4	5998.7	7967.0	8327.5	7189.9	7033.7	6808.6	6847.0
60°	3049.0	3086.7	3165.2	3649.8	5272.1	8152.0	10091.5	8539.8	8440.4	7613.7	7640.9
62.5°	2165.4	2207.8	2262.3	2504.2	3859.7	7630.5	11472.6	10424.8	10069.9	8447.6	8421.2
65°	1758.4	1729.6	1795.3	1908.2	2264.7	5913.7	11783.4	13041.2	12552.5	9545.9	9179.0
67.5°	1446.0	1415.5	1480.4	1681.5	1722.4	3432.7	10663.5	14739.5	14641.8	10740.4	9948.9
69°	1280.2	1264.1	1321.0	1550.1	1653.5	2437.8	9289.6	14975.8	14999.1	11444.6	10067.5
70°	1153.6	1160.0	1215.3	1483.6	1622.2	2010.0	7939.7	14649.8	14846.9	11796.2	9939.3
72.5°	849.2	862.8	939.7	1228.9	1592.6	1705.5	4724.9	12796.0	13144.5	11817.1	9092.5
75°	593.6	587.2	655.3	925.3	1504.5	1690.3	2775.0	9896.0	10291.0	10214.1	7640.1
77.5°	388.5	398.9	453.4	653.7	1265.7	1677.5	1808.9	7020.9	7277.2	6831.0	4519.0
80°	274.0	273.2	303.6	446.2	938.9	1611.8	1481.2	4425.3	4360.4	2684.5	1340.2
82.5°	157.0	168.2	203.5	314.0	628.1	1418.8	1362.7	2116.5	1932.3	765.1	452.6
85°	87.3	91.3	121.0	189.9	366.9	1068.7	1189.6	962.9	908.5	319.6	194.7
87.5°	28.0	30.4	50.5	96.1	166.6	504.7	673.7	444.6	410.2	115.4	78.5
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°	3340.6	3340.6	3340.6	3340.6	3340.6	3340.6	3340.6	3340.6	3340.6	3340.6	3340.6
2.5°	3345.4	3355.0	3329.4	3304.6	3282.1	3250.9	3222.8	3199.6	3183.6	3181.2	3173.2
5°	3356.6	3357.4	3308.6	3242.9	3178.8	3108.3	3035.4	2983.3	2934.4	2907.2	2893.6
7.5°	3364.6	3357.4	3269.3	3162.8	3039.4	2911.2	2783.0	2680.5	2601.2	2569.9	2582.0
10°	3361.4	3339.0	3210.0	3039.4	2859.9	2668.5	2484.2	2340.0	2207.8	2139.7	2141.3
12.5°	3343.8	3307.0	3121.9	2900.8	2637.2	2380.9	2098.9	1904.2	1751.2	1660.7	1632.6
15°	3328.6	3264.5	3018.6	2712.5	2384.9	2018.8	1675.1	1434.8	1306.6	1235.3	1234.5
17.5°	3312.6	3223.6	2905.6	2513.1	2094.9	1623.8	1263.3	1079.9	1019.8	1027.0	1015.0
20°	3295.7	3175.6	2787.8	2291.2	1741.6	1211.3	946.1	871.6	888.4	921.3	926.1
22.5°	3276.5	3124.3	2661.3	2046.8	1369.9	911.7	767.5	756.2	799.5	850.8	858.0
25°	3246.9	3060.2	2501.8	1791.3	1056.7	734.6	672.1	680.1	722.6	765.9	770.7
27.5°	3205.2	2980.9	2340.8	1472.4	793.9	630.5	614.4	624.9	645.7	672.1	678.5
30°	3149.1	2891.2	2155.8	1196.8	636.1	578.4	572.0	577.6	589.6	600.8	604.0
32.5°	3093.1	2804.7	1969.1	916.5	567.2	543.9	537.5	537.5	537.5	539.1	539.9
35°	3041.0	2723.0	1768.8	713.8	531.1	516.7	507.9	498.3	496.7	491.1	491.1
37.5°	3012.1	2648.4	1555.7	597.6	504.7	494.3	482.3	466.2	457.4	458.2	456.6
40°	3017.8	2599.6	1361.9	531.9	483.1	471.8	453.4	435.0	429.4	429.4	427.8
42.5°	3081.0	2583.6	1176.0	497.5	462.2	449.4	426.2	409.4	406.2	405.4	407.0
45°	3226.8	2622.8	1009.4	475.1	444.6	425.4	402.2	386.9	383.7	383.7	382.9
47.5°	3511.2	2750.2	890.0	460.6	431.8	407.0	382.9	367.7	362.1	360.5	360.5
50°	3953.4	3026.6	801.1	447.8	415.8	390.1	365.3	347.7	338.9	338.1	337.3
52.5°	4567.9	3457.6	766.7	438.2	398.1	372.5	345.3	328.5	317.2	314.8	313.2
55°	5286.5	4059.2	813.9	431.0	379.7	352.5	324.4	306.8	296.4	291.6	290.8
57.5°	6118.8	4781.8	993.4	421.4	362.9	330.9	303.6	286.0	274.8	269.2	267.6
60°	6866.3	5524.4	1306.6	415.8	348.5	307.6	279.6	263.6	253.1	247.5	246.7
62.5°	7687.4	6232.6	1680.7	431.0	342.1	285.2	257.2	242.7	233.9	228.3	228.3
65°	8564.6	6941.6	1928.3	482.3	351.7	267.6	233.1	221.1	213.1	209.1	208.3
67.5°	9155.8	7186.7	1588.6	535.1	375.7	248.3	209.9	200.3	195.5	191.5	191.5
69°	9091.7	6876.7	1172.0	548.8	382.9	238.7	197.1	189.9	183.5	181.9	180.2
70°	8889.0	6523.4	982.2	539.9	377.3	229.9	189.1	180.2	174.6	173.0	172.2
72.5°	7917.3	5657.4	731.4	469.4	321.2	199.5	167.4	159.4	154.6	152.2	152.2
75°	6577.9	4624.0	571.2	373.3	251.5	168.2	143.4	137.0	133.0	131.4	130.6
77.5°	3686.7	2582.0	410.2	292.4	190.7	136.2	120.2	114.6	110.6	109.0	109.0
80°	1027.0	737.8	241.1	193.1	129.8	103.3	95.3	91.3	85.7	81.7	84.1
82.5°	386.9	319.6	137.8	116.2	82.5	68.9	66.5	63.3	60.9	55.3	55.3
85°	188.3	155.4	88.1	61.7	45.7	36.0	34.4	32.8	31.2	27.2	28.0
87.5°	64.9	68.9	38.5	22.4	13.6	8.8	7.2	4.0	4.0	4.0	4.0
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)