

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: P452284

Luminaire Tested: **GALN-SA3B-727-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452284  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-727-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11626 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

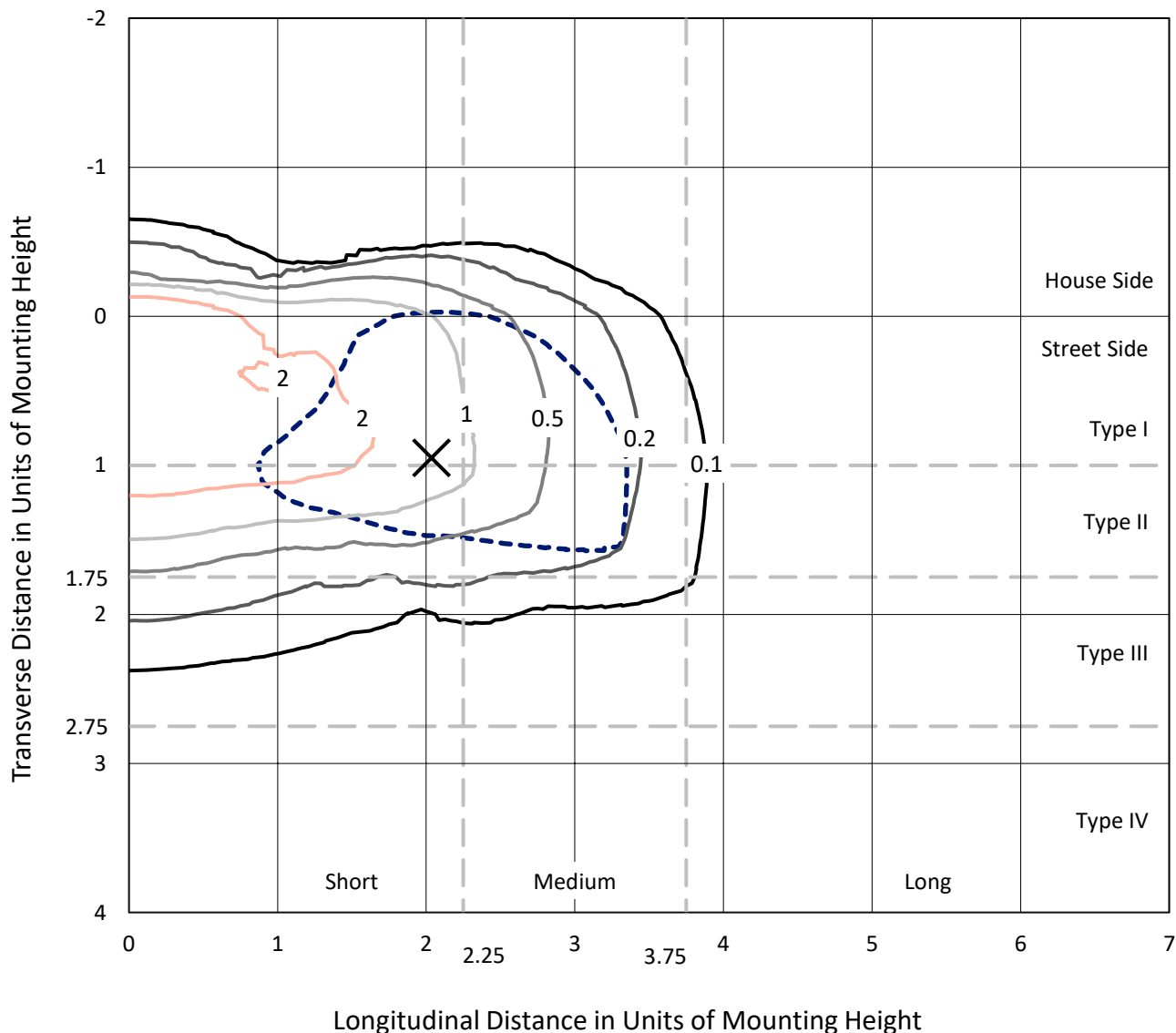
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

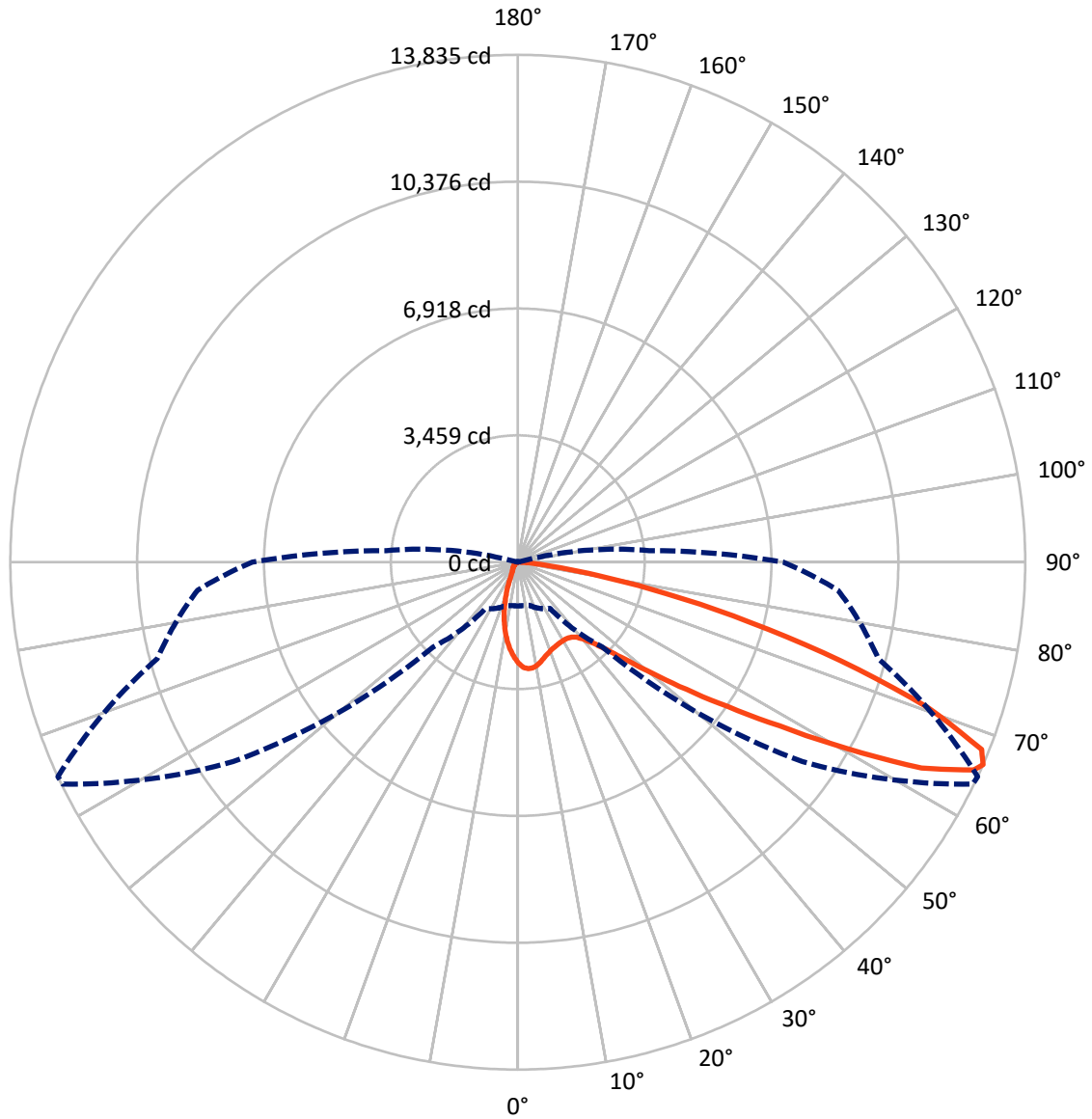
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1202.3	0.0	1202.3
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	10423.7	0.0	10423.7
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	11626.0	0.0	11626.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.5	1.9
10°-20°	491.3	4.2
20°-30°	703.8	6.1
30°-40°	1027.9	8.8
40°-50°	1723.6	14.8
50°-60°	2876.4	24.7
60°-70°	3053.2	26.3
70°-80°	1382.8	11.9
80°-90°	141.5	1.2
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°	11626.0	100.0
0°-180°	11626.0	100.0

**Coefficient of Utilization**



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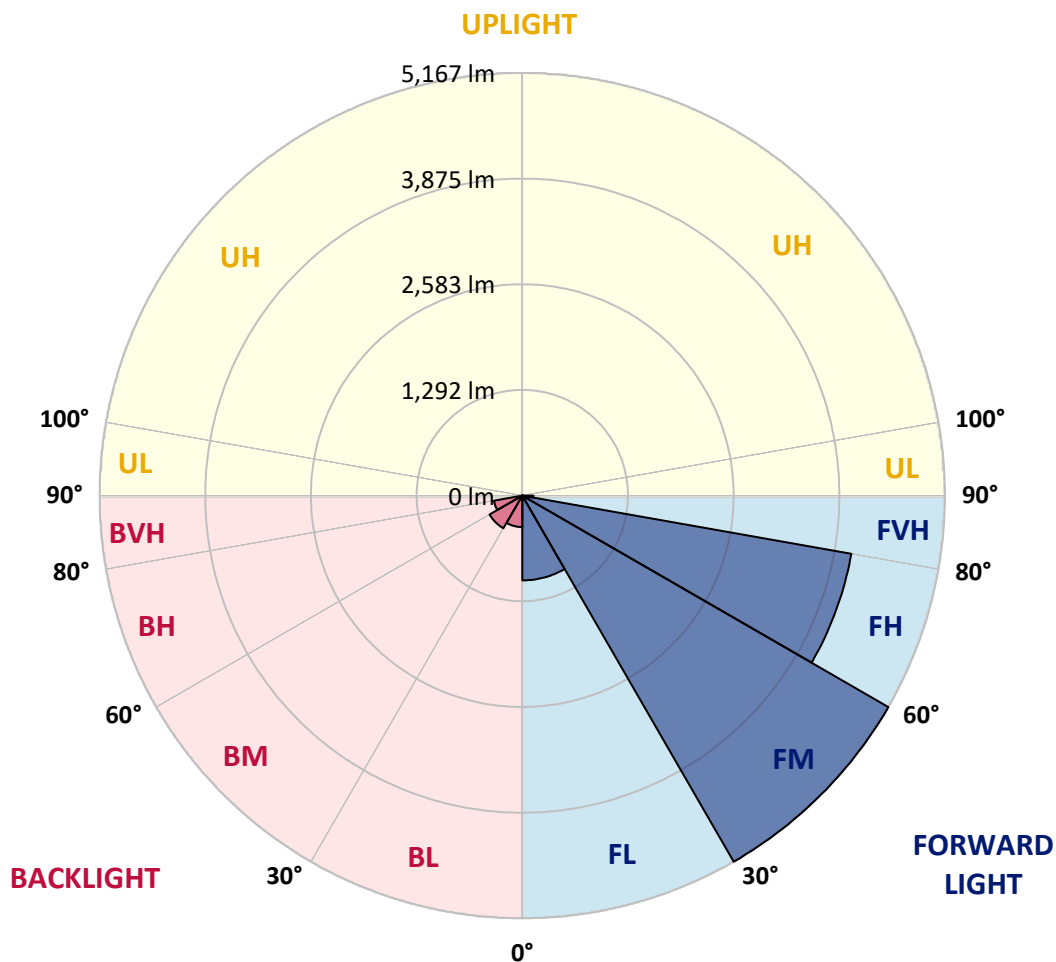
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1035.9	8.9			
FM (30°-60°)	5166.9	44.4			
FH (60°-80°)	4083.9	35.1			G2/5000
FVH (80°-90°)	137.0	1.2			G2/225
BL (0°-30°)	384.6	3.3	B1/500		
BM (30°-60°)	461.1	4.0	B1/1000		
BH (60°-80°)	352.1	3.0	B1/500		G1/500
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2757.0	2757.0	2757.0	2757.0	2757.0	2757.0	2757.0	2757.0	2757.0	2757.0	2757.0
2.5°	2905.4	2908.5	2912.4	2917.9	2921.9	2910.1	2893.6	2874.7	2870.8	2830.8	2782.1
5°	2749.9	2754.6	2789.1	2808.0	2850.4	2888.9	2913.2	2916.4	2914.8	2877.1	2799.4
7.5°	2528.5	2541.8	2575.6	2608.5	2687.9	2760.9	2847.3	2907.7	2911.6	2901.4	2804.9
10°	2348.6	2357.3	2374.5	2439.7	2505.7	2617.2	2738.1	2852.0	2861.4	2902.2	2800.1
12.5°	2208.1	2220.6	2241.8	2292.1	2371.4	2476.6	2614.0	2767.2	2786.8	2887.3	2786.8
15°	2109.9	2116.2	2137.4	2186.9	2263.8	2361.2	2500.2	2678.4	2695.7	2867.7	2784.4
17.5°	2063.6	2070.7	2085.6	2124.8	2188.4	2278.7	2414.6	2607.0	2629.0	2855.1	2793.1
20°	2076.2	2082.4	2083.2	2103.6	2146.8	2223.0	2351.8	2540.2	2568.5	2847.3	2807.2
22.5°	2147.6	2148.4	2139.0	2129.6	2144.5	2199.4	2313.3	2497.8	2526.9	2845.7	2823.7
25°	2254.4	2256.8	2241.1	2208.1	2178.2	2206.5	2304.7	2470.3	2496.3	2841.8	2833.9
27.5°	2402.0	2401.2	2396.5	2341.6	2256.8	2237.9	2311.7	2455.4	2477.4	2830.8	2837.8
30°	2608.5	2602.3	2592.1	2530.0	2400.5	2314.1	2341.6	2446.0	2466.4	2815.1	2827.6
32.5°	2811.9	2835.5	2833.9	2775.0	2613.3	2449.9	2403.6	2458.6	2473.5	2804.9	2812.7
35°	3049.1	3048.3	3108.7	3086.8	2897.5	2623.5	2509.6	2500.2	2512.0	2811.9	2805.6
37.5°	3268.9	3289.3	3383.6	3406.3	3233.6	2868.5	2659.6	2589.7	2593.6	2859.8	2822.9
40°	3543.0	3582.2	3722.8	3799.0	3646.6	3232.0	2881.0	2753.8	2754.6	2977.6	2888.1
42.5°	3896.3	3958.4	4089.5	4216.7	4135.0	3662.3	3213.2	3013.7	3012.2	3184.9	3037.3
45°	4325.8	4369.0	4518.2	4720.0	4668.2	4263.0	3696.9	3416.5	3396.1	3524.9	3301.9
47.5°	4696.5	4755.4	4906.9	5137.0	5372.6	4996.4	4274.8	3970.1	3956.8	4065.9	3755.8
50°	4858.2	4910.1	5069.5	5392.2	5963.1	5959.1	5135.4	4778.1	4755.4	4814.3	4457.8
52.5°	4680.8	4729.5	4890.4	5292.5	6241.0	7132.3	6382.4	5791.9	5764.4	5689.0	5296.4
55°	4073.0	4113.1	4351.0	4812.7	6134.2	7914.4	8100.5	7044.3	6937.5	6644.6	6245.7
57.5°	3243.0	3222.6	3370.2	3906.5	5507.6	8176.6	9864.1	8604.6	8413.8	7470.7	7049.0
60°	2247.3	2310.2	2369.8	2723.2	4141.3	7722.0	10961.1	10566.1	10314.8	8283.4	7818.6
62.5°	1652.1	1693.7	1733.0	1896.3	2603.8	6165.7	11155.0	12581.0	12358.0	9146.4	8552.8
65°	1306.6	1309.8	1325.5	1486.4	1715.7	4009.4	10222.9	13717.2	13659.9	9977.2	8850.4
66°	1190.4	1191.2	1215.5	1388.3	1539.8	3265.0	9476.2	13803.6	13835.0	10176.6	8763.2
67.5°	1040.4	1037.3	1072.6	1247.7	1402.4	2354.1	8139.7	13453.4	13639.5	10329.7	8449.9
70°	806.4	802.5	845.7	1046.7	1291.7	1570.5	5410.3	11551.6	11851.5	10016.4	7476.2
72.5°	537.1	540.2	614.1	826.1	1232.8	1382.8	3254.8	8787.5	9211.6	8271.6	5881.4
75°	313.3	318.8	402.8	614.1	1070.3	1318.4	1842.2	6266.2	6537.1	5711.8	3663.9
77.5°	164.1	166.5	225.4	405.2	820.6	1224.2	1227.3	4003.1	4130.3	2775.8	1450.3
80°	87.2	84.8	120.9	244.2	564.6	1075.0	995.7	2119.3	2203.4	824.5	366.7
82.5°	33.0	36.1	64.4	160.2	333.7	771.9	857.5	936.8	907.7	181.4	153.9
85°	6.3	7.9	27.5	95.0	168.0	322.7	632.1	459.4	425.6	68.3	88.7
87.5°	0.8	1.6	7.9	22.8	24.3	109.1	186.9	127.2	109.9	25.1	36.9
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°	2757.0	2757.0	2757.0	2757.0	2757.0	2757.0	2757.0	2757.0	2757.0	2757.0	2757.0
2.5°	2758.5	2737.3	2666.7	2596.8	2525.3	2460.9	2416.9	2345.5	2327.4	2301.5	2286.6
5°	2753.0	2703.6	2567.7	2419.3	2281.1	2131.9	2018.0	1908.1	1849.2	1819.4	1808.4
7.5°	2737.3	2658.8	2446.8	2214.4	1992.9	1769.9	1576.0	1428.3	1333.3	1268.2	1224.2
10°	2705.9	2597.6	2306.2	1986.6	1652.1	1357.7	1111.9	925.0	780.5	735.0	736.5
12.5°	2673.7	2529.2	2149.2	1733.8	1319.2	947.8	687.1	539.5	470.4	447.6	442.9
15°	2643.9	2464.1	1995.3	1488.8	982.3	614.1	442.9	391.0	372.2	368.3	367.5
17.5°	2628.2	2403.6	1831.2	1208.5	685.5	417.0	354.9	340.8	335.3	331.4	329.8
20°	2614.8	2351.0	1674.1	946.2	468.8	341.6	318.0	304.7	295.2	291.3	289.0
22.5°	2605.4	2296.8	1511.6	732.6	358.9	303.1	281.9	264.6	251.3	246.6	243.4
25°	2591.3	2237.1	1347.5	535.5	302.3	269.3	245.0	224.6	207.3	198.7	197.1
27.5°	2570.9	2169.6	1167.6	396.5	270.1	239.5	209.7	184.5	167.3	157.8	158.6
30°	2537.9	2098.9	987.8	314.9	244.2	208.9	176.7	152.3	135.8	128.8	128.0
32.5°	2498.6	2013.3	822.9	270.1	220.7	181.4	147.6	126.4	113.9	108.4	107.6
35°	2461.7	1927.0	654.9	242.6	196.3	156.3	124.1	106.0	96.6	91.9	92.7
37.5°	2441.3	1850.0	510.4	220.7	176.7	134.3	106.8	91.1	82.4	78.5	77.7
40°	2454.6	1787.2	406.0	201.0	154.7	115.4	91.9	78.5	69.9	64.4	64.4
42.5°	2517.5	1759.7	327.4	182.2	134.3	99.7	80.1	67.5	58.1	52.6	53.4
45°	2709.1	1788.8	274.0	164.9	115.4	86.4	69.1	55.8	47.1	43.2	42.4
47.5°	3027.1	1897.9	237.1	146.8	98.9	73.8	58.1	46.3	37.7	34.6	33.8
50°	3583.0	2123.3	209.7	128.8	84.0	62.8	47.9	36.9	29.8	26.7	26.7
52.5°	4347.8	2614.8	190.0	108.4	70.7	53.4	39.3	29.8	23.6	21.2	20.4
55°	5147.2	3133.1	179.8	91.1	58.9	44.0	31.4	23.6	18.1	15.7	14.9
57.5°	5915.9	3539.8	168.0	73.8	47.1	33.8	24.3	18.1	12.6	11.0	10.2
60°	6653.3	3868.8	142.9	58.9	36.9	24.3	18.1	12.6	8.6	7.1	7.1
62.5°	7312.9	4060.4	112.3	47.1	28.3	17.3	11.8	9.4	6.3	4.7	4.7
65°	7389.8	3811.5	84.8	36.1	20.4	11.0	7.1	7.1	4.7	3.1	3.1
66°	7235.1	3600.3	74.6	33.0	18.1	9.4	6.3	5.5	3.9	2.4	2.4
67.5°	6889.6	3239.9	64.4	28.3	14.9	7.1	4.7	4.7	3.1	1.6	1.6
70°	5952.9	2646.2	51.0	21.2	11.0	5.5	3.1	3.1	2.4	1.6	1.6
72.5°	4537.1	1975.6	41.6	15.7	7.9	3.9	2.4	2.4	2.4	1.6	1.6
75°	2736.5	1064.0	32.2	11.8	7.1	3.1	1.6	2.4	3.1	2.4	1.6
77.5°	1008.2	362.0	25.1	9.4	5.5	3.1	1.6	1.6	3.1	2.4	2.4
80°	247.3	94.2	18.1	7.9	5.5	3.1	1.6	1.6	3.1	3.1	3.1
82.5°	114.6	40.0	12.6	7.1	5.5	3.1	1.6	1.6	2.4	3.1	3.1
85°	66.0	18.8	10.2	7.9	5.5	3.1	1.6	1.6	2.4	3.1	3.1
87.5°	26.7	9.4	9.4	7.9	6.3	3.9	1.6	1.6	1.6	2.4	2.4
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)