

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: STREETWORKS

Report Number: P451590

Luminaire Tested: **GLAN-SA2C-727-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451590  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2C-727-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9781 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

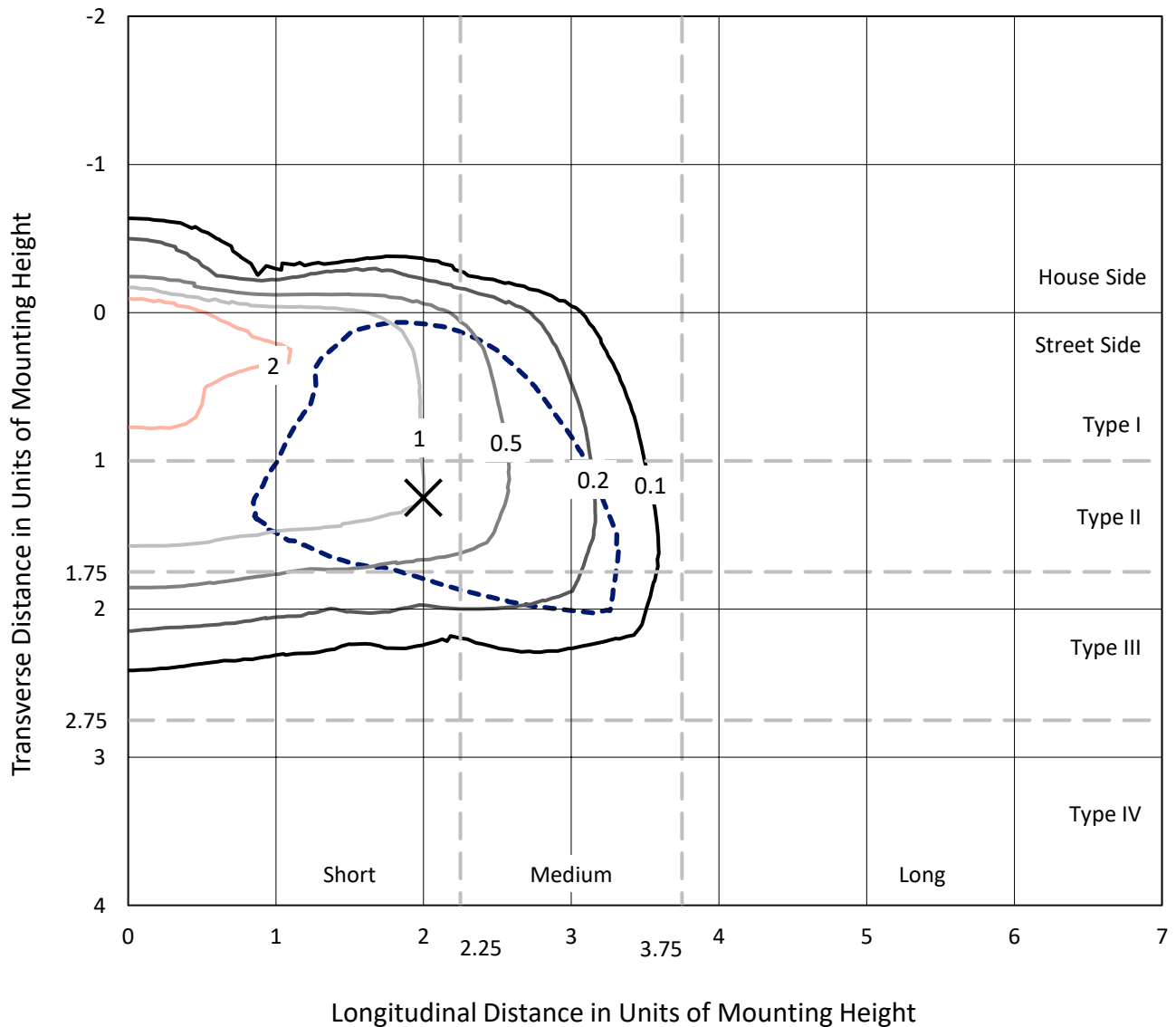
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

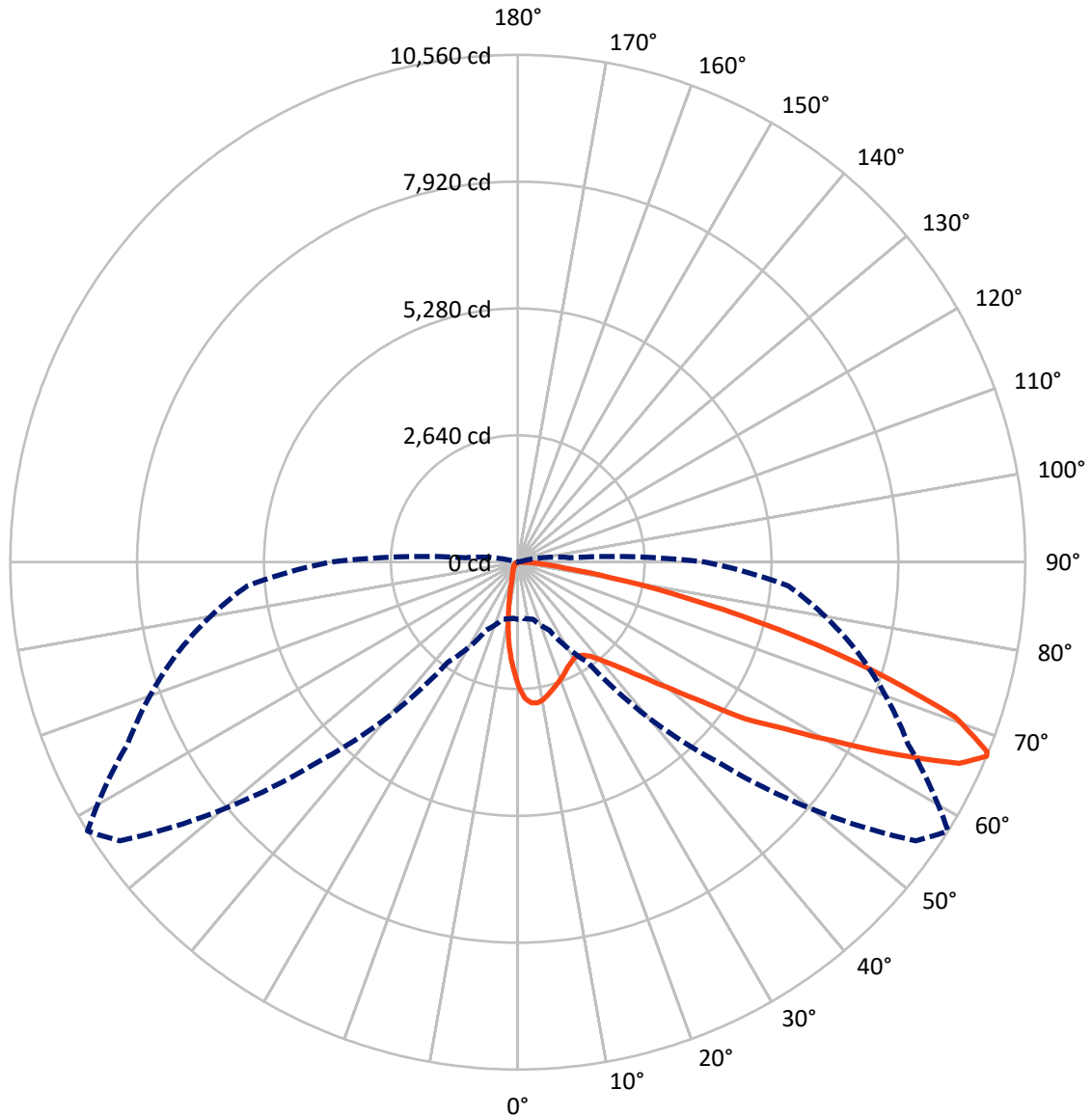
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	705.9	0.0	705.9
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	9075.1	0.0	9075.1
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	9781.0	0.0	9781.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.4	2.2
10°-20°	454.4	4.6
20°-30°	615.8	6.3
30°-40°	854.0	8.7
40°-50°	1362.1	13.9
50°-60°	2354.5	24.1
60°-70°	2689.6	27.5
70°-80°	1121.3	11.5
80°-90°	118.9	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°	9781.0	100.0
0°-180°	9781.0	100.0

**Coefficient of Utilization**



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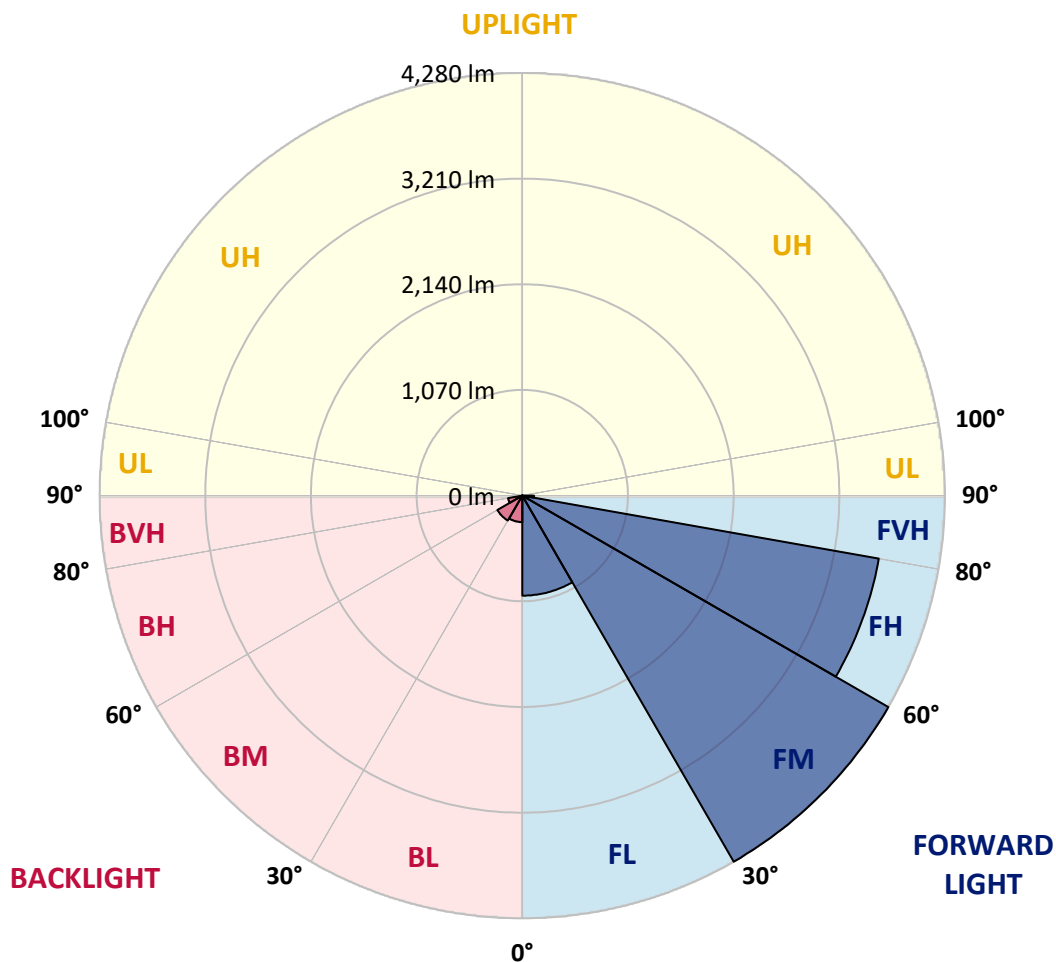
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1012.6	10.4			
FM (30°-60°)	4279.6	43.8			
FH (60°-80°)	3665.0	37.5			G2/5000
FVH (80°-90°)	118.0	1.2			G2/225
BL (0°-30°)	268.0	2.7	B1/500		
BM (30°-60°)	291.0	3.0	B1/1000		
BH (60°-80°)	145.9	1.5	B1/500		G1/500
BVH (80°-90°)	0.9	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9
2.5°	3009.2	3013.8	2996.8	2983.1	2947.8	2909.9	2859.5	2832.7	2787.0	2707.9	2620.3
5°	3079.8	3085.7	3083.1	3079.8	3066.1	3029.5	2965.4	2941.9	2874.6	2745.8	2587.6
7.5°	2922.9	2944.5	2947.1	2972.6	2996.8	3000.0	2975.9	2958.2	2896.1	2745.1	2529.5
10°	2715.1	2729.5	2750.4	2779.8	2838.0	2886.3	2909.9	2907.2	2871.3	2724.9	2461.5
12.5°	2505.3	2513.1	2545.1	2595.5	2666.7	2749.1	2811.8	2824.2	2824.9	2700.7	2404.6
15°	2324.9	2321.6	2346.4	2404.6	2504.6	2607.9	2720.3	2739.9	2771.3	2677.2	2351.7
17.5°	2170.6	2187.6	2191.5	2255.6	2347.8	2481.7	2624.9	2659.5	2722.3	2656.9	2307.9
20°	2075.2	2084.3	2092.8	2128.8	2211.8	2353.0	2535.3	2583.0	2676.5	2638.6	2258.9
22.5°	2047.1	2053.0	2045.8	2056.9	2115.7	2241.2	2437.9	2501.3	2632.7	2621.6	2219.0
25°	2068.7	2074.5	2057.6	2044.5	2064.7	2150.4	2343.8	2421.0	2597.4	2618.3	2188.9
27.5°	2121.0	2132.1	2108.5	2085.0	2073.2	2101.3	2270.0	2359.5	2573.2	2634.0	2175.2
30°	2202.7	2209.2	2191.5	2162.8	2136.0	2107.9	2231.4	2317.0	2566.7	2670.6	2173.9
32.5°	2291.5	2305.3	2295.5	2276.5	2241.9	2175.2	2242.5	2318.3	2582.4	2723.6	2190.2
35°	2401.3	2417.0	2426.2	2422.3	2377.8	2294.8	2313.1	2377.2	2624.2	2821.0	2234.7
37.5°	2509.2	2522.9	2574.6	2592.2	2553.0	2474.6	2450.4	2492.9	2716.4	2948.4	2315.1
40°	2632.7	2651.0	2723.6	2790.9	2771.9	2689.6	2645.1	2680.4	2857.6	3140.6	2467.4
42.5°	2751.0	2783.7	2894.2	3013.1	3030.8	2938.6	2909.2	2921.0	3066.7	3417.0	2679.8
45°	2919.0	2949.7	3092.2	3253.6	3336.7	3264.8	3234.7	3232.7	3353.7	3805.9	3024.2
47.5°	3161.5	3188.9	3356.9	3516.4	3664.1	3673.9	3617.1	3636.7	3714.4	4260.9	3446.5
50°	3458.9	3523.6	3634.0	3800.1	3997.5	4156.9	4174.6	4148.4	4215.1	4787.7	3953.7
52.5°	3890.9	3915.8	4017.1	4153.7	4385.0	4655.6	4865.4	4829.5	4808.6	5289.6	4466.1
55°	4213.1	4246.5	4404.0	4591.6	4930.8	5287.7	5742.6	5755.0	5490.9	5772.0	4967.4
57.5°	4115.8	4166.7	4405.3	4782.4	5528.2	6180.5	6519.1	6527.6	6122.3	6240.6	5533.4
60°	3615.7	3639.9	3981.8	4485.0	5579.2	7147.8	7620.4	7551.8	6764.8	6764.8	6033.4
62.5°	2564.1	2602.0	2879.1	3619.7	5038.6	7483.8	8939.4	8797.5	7649.8	7266.1	6331.5
65°	1638.6	1602.0	1785.7	2285.0	3753.7	6987.7	10087.7	10096.2	8482.5	7466.8	6168.7
67°	1186.9	1172.6	1225.5	1562.1	2545.1	5874.0	10111.9	10559.7	8960.9	7340.0	5648.5
67.5°	1085.6	1096.8	1135.3	1409.2	2312.5	5345.2	10002.1	10532.2	9068.8	7263.5	5460.2
70°	822.9	803.9	845.8	996.7	1386.3	3372.0	8604.1	9659.6	8934.8	6504.7	4362.8
72.5°	605.2	603.3	661.4	815.0	1067.3	1796.1	6458.9	7745.2	7299.5	4953.0	2747.1
75°	408.5	426.8	519.6	681.1	967.3	1164.7	4403.3	5619.0	5067.4	2812.5	1122.9
77.5°	232.7	234.0	334.6	547.1	868.6	937.3	2609.2	3579.8	2682.4	935.3	333.3
80°	100.7	110.5	166.0	397.4	720.3	830.1	1496.1	1967.4	1085.0	198.0	107.8
82.5°	37.3	43.8	73.2	244.4	525.5	683.7	903.9	939.2	368.0	69.9	67.3
85°	0.0	1.3	26.8	114.4	273.9	305.2	603.9	556.9	162.7	33.3	43.8
87.5°	0.0	0.0	0.0	11.8	35.9	113.7	187.6	209.2	39.2	11.8	10.5
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°	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9	2592.9
2.5°	2573.2	2530.8	2424.2	2317.7	2238.6	2172.6	2073.2	2019.0	1990.2	1947.7	1950.4
5°	2508.5	2422.3	2234.7	2040.6	1883.7	1730.7	1547.7	1473.9	1411.8	1376.5	1353.0
7.5°	2412.5	2285.0	2007.2	1748.4	1507.2	1239.9	1039.2	905.2	815.0	781.7	749.7
10°	2307.2	2137.9	1776.5	1417.7	1083.0	807.2	637.3	514.4	470.6	430.1	434.0
12.5°	2209.8	2004.0	1564.7	1119.0	758.8	513.1	400.0	349.7	335.3	330.7	330.7
15°	2130.1	1875.8	1337.3	841.2	520.3	368.6	320.3	306.5	301.3	300.0	300.0
17.5°	2045.1	1754.3	1132.0	621.6	378.4	308.5	292.2	283.0	281.1	279.7	279.7
20°	1969.3	1632.1	937.3	462.8	305.9	277.8	267.3	261.4	259.5	258.2	258.8
22.5°	1897.4	1523.6	754.3	349.7	269.3	252.9	242.5	236.6	232.7	229.4	230.1
25°	1833.4	1419.0	606.5	286.3	242.5	228.1	217.7	209.2	200.7	196.7	196.1
27.5°	1788.3	1327.5	472.6	245.1	218.3	202.6	189.5	179.1	168.0	162.1	160.8
30°	1751.0	1234.7	373.9	216.3	194.1	179.1	162.7	147.7	135.9	130.1	127.5
32.5°	1726.8	1146.4	294.8	192.8	173.9	155.6	137.3	122.2	109.2	103.3	102.0
35°	1722.9	1072.6	241.2	173.2	155.6	135.9	117.0	100.7	89.5	83.7	82.4
37.5°	1751.0	1015.7	202.0	157.5	140.5	119.0	98.0	83.0	73.2	68.6	68.0
40°	1826.2	979.8	175.2	144.4	126.8	103.3	83.7	70.6	60.8	56.2	56.2
42.5°	1969.3	981.1	157.5	132.0	113.1	88.2	71.2	58.8	50.3	46.4	45.1
45°	2192.8	1025.5	142.5	119.6	100.0	76.5	60.8	48.4	39.9	36.6	36.6
47.5°	2492.2	1113.7	129.4	107.2	88.2	65.4	51.6	39.2	32.0	28.8	28.8
50°	2883.7	1255.6	118.3	96.7	78.4	56.2	41.8	32.0	24.8	22.2	21.6
52.5°	3292.9	1430.7	105.2	87.6	67.3	47.7	34.0	24.8	19.0	17.0	16.3
55°	3744.5	1602.0	92.8	78.4	54.9	39.9	26.8	19.6	13.7	11.8	11.8
57.5°	4200.1	1770.0	77.8	65.4	43.1	29.4	20.9	14.4	9.2	7.2	7.2
60°	4585.7	1824.2	66.0	52.9	32.7	20.9	15.0	9.2	5.2	3.3	3.3
62.5°	4638.6	1641.2	55.6	40.5	23.5	14.4	7.8	5.2	2.0	1.3	1.3
65°	4351.1	1333.4	46.4	30.7	15.7	7.2	3.3	2.0	0.7	0.0	0.0
67°	3898.8	1081.1	37.9	22.9	11.1	4.6	2.0	0.7	0.0	0.0	0.0
67.5°	3783.1	1030.7	36.6	21.6	9.8	3.9	1.3	0.7	0.0	0.0	0.0
70°	2968.7	771.9	26.1	13.1	5.9	2.6	0.0	0.0	0.0	0.0	0.0
72.5°	1845.1	436.6	19.0	7.8	3.9	1.3	0.0	0.0	0.0	0.0	0.0
75°	697.4	152.9	13.1	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	217.0	58.2	7.8	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	73.2	22.2	5.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.1	9.2	3.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.1	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	1.3	0.7	0.0	0.0	0.0	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)