

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: P268352

Luminaire Tested: **GAN-AF-03-LED-U-SL2-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-SL2-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA 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: 13077.2 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 166
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: 28.75 FT

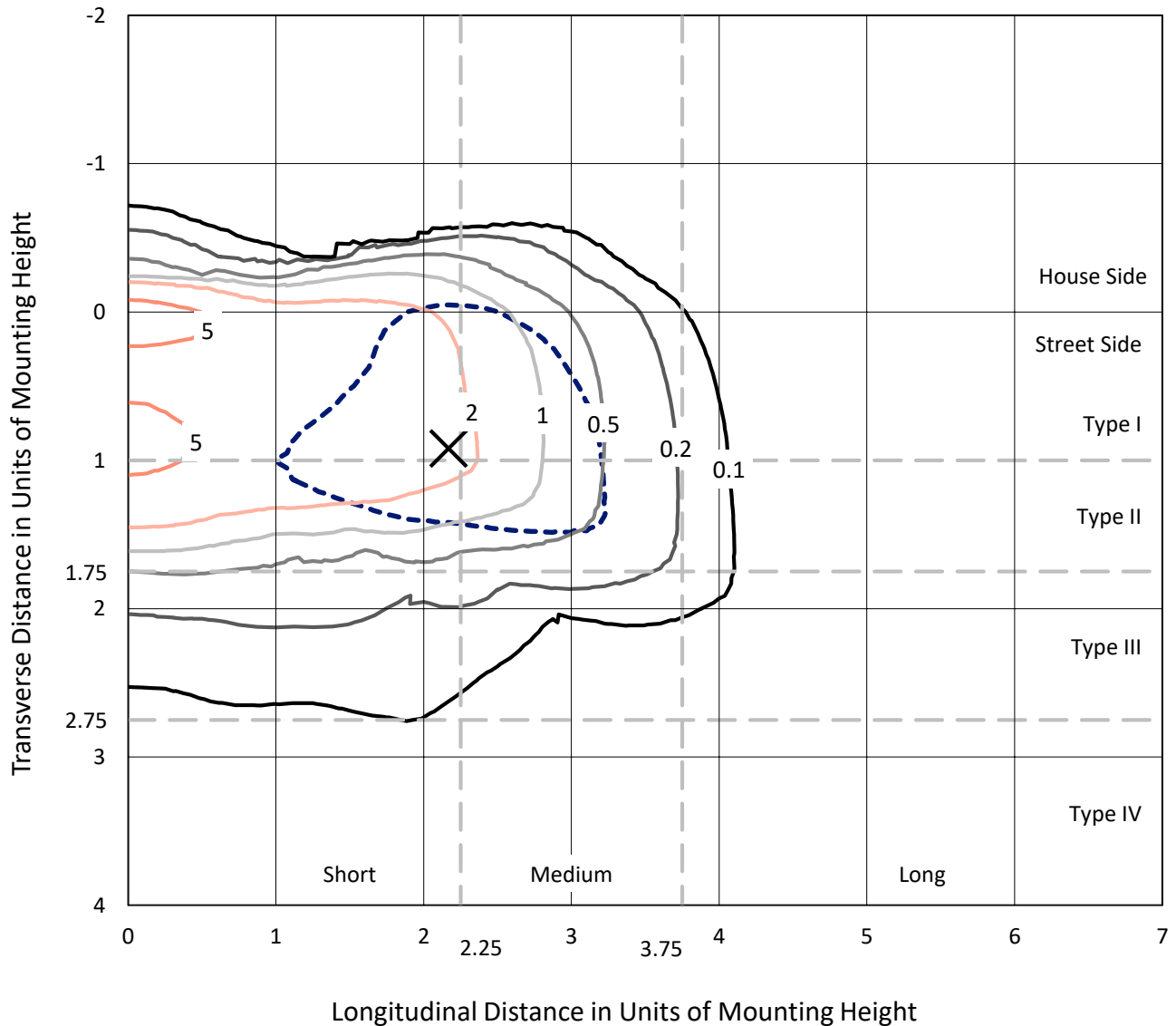


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Iso-Footcandle Lines of Horizontal Illumination

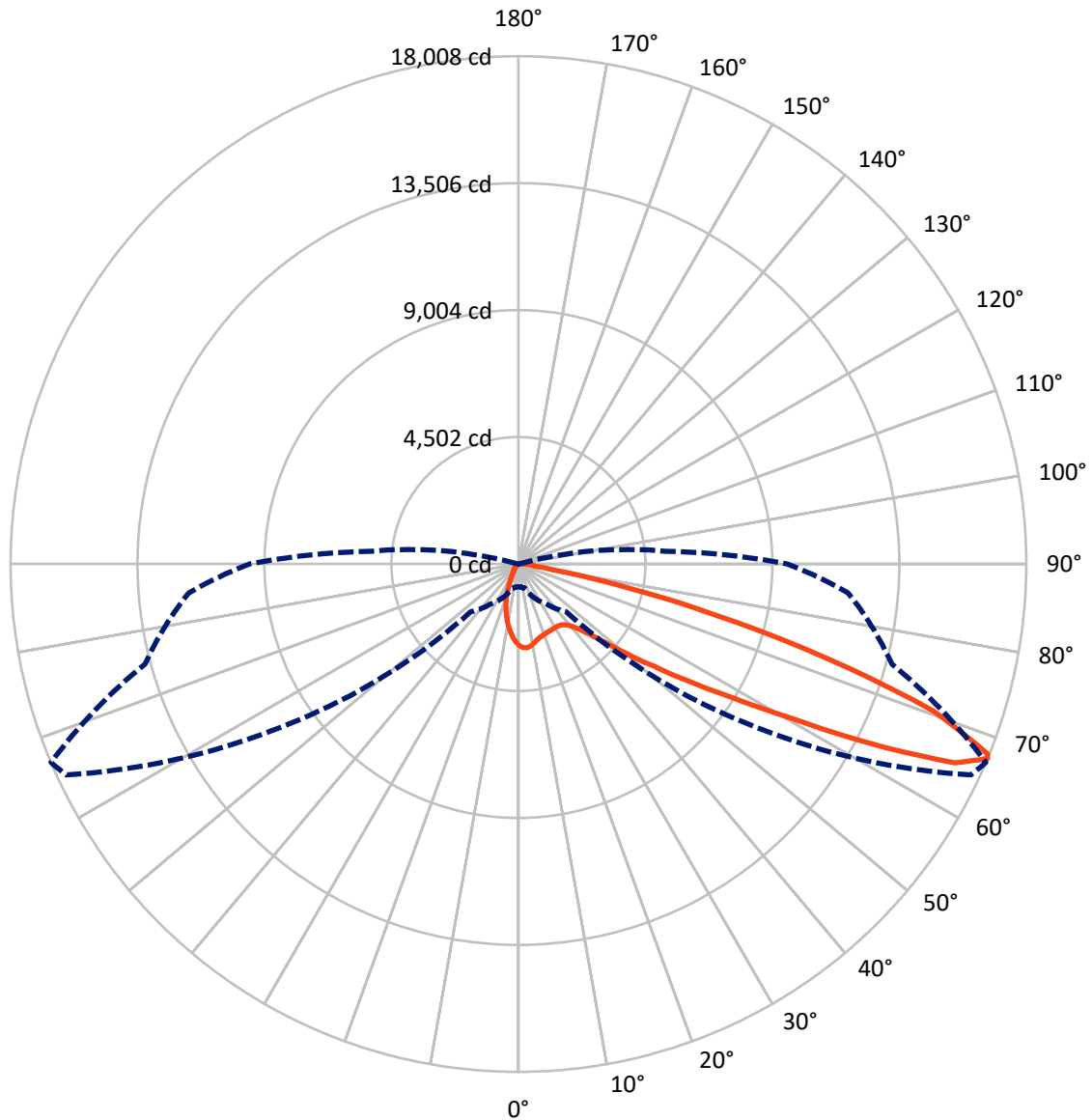
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1357.8	0.0	1357.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	11719.4	0.0	11719.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	13077.2	0.0	13077.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.7	1.8
10°-20°	499.5	3.8
20°-30°	726.2	5.6
30°-40°	1132.9	8.7
40°-50°	2006.8	15.3
50°-60°	3175.6	24.3
60°-70°	3637.2	27.8
70°-80°	1508.7	11.5
80°-90°	155.8	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°	13077.2	100.0
0°-180°	13077.2	100.0

Coefficient of Utilization



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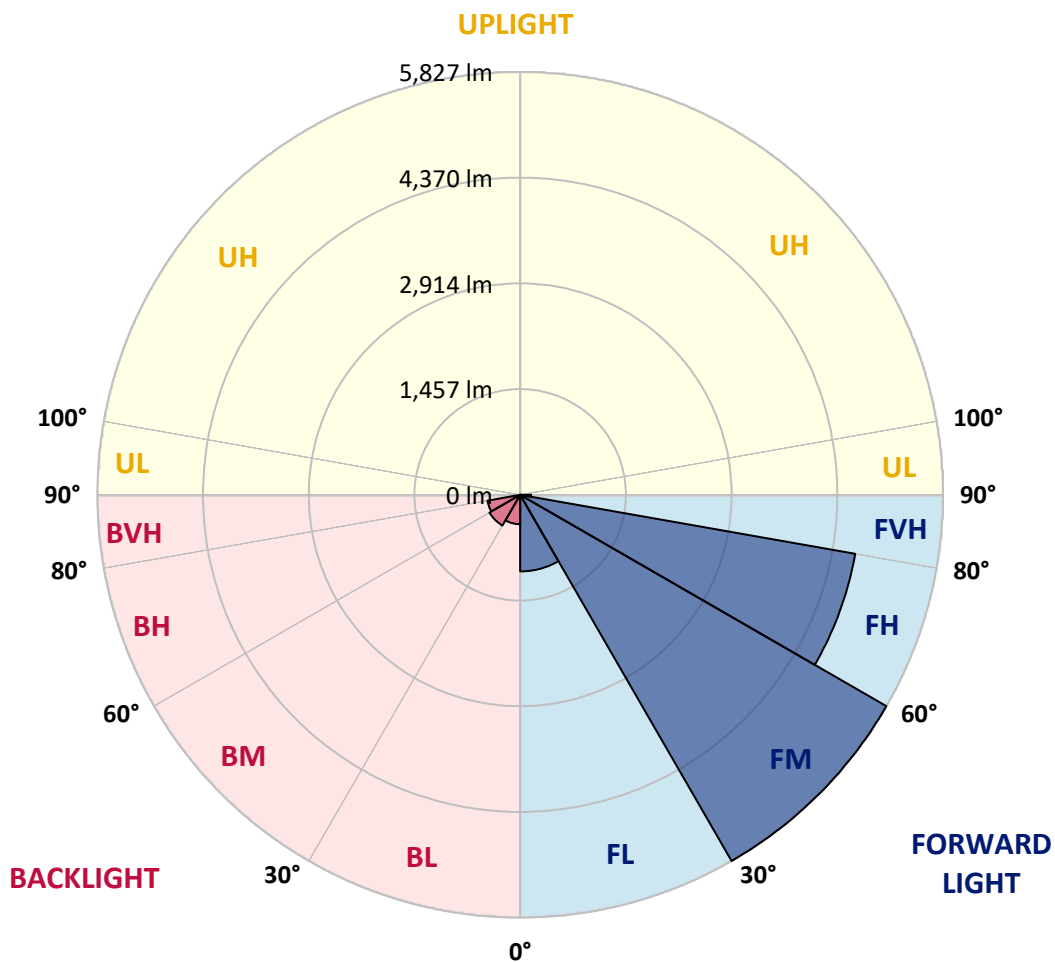
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1055.1	8.1			
FM	(30°-60°)	5827.2	44.6			
FH	(60°-80°)	4688.2	35.9			G2/5000
FVH	(80°-90°)	148.8	1.1			G2/225
BL	(0°-30°)	405.2	3.1	B1/500		
BM	(30°-60°)	488.0	3.7	B1/1000		
BH	(60°-80°)	457.6	3.5	B1/500		G1/500
BVH	(80°-90°)	7.0	0.1			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°	65°	67°	75°	85°
0°	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0
2.5°	2981.7	2987.8	2987.0	2991.5	3002.2	3003.0	2992.3	2971.8	2967.1	2940.4	2893.9
5°	2749.8	2767.3	2778.0	2821.4	2870.3	2929.1	2973.3	2989.3	2987.0	2967.9	2897.8
7.5°	2485.2	2502.7	2514.8	2566.0	2630.7	2731.4	2846.6	2941.2	2949.7	2970.2	2894.7
10°	2309.0	2312.0	2328.8	2377.5	2445.5	2548.4	2685.8	2851.2	2876.5	2951.9	2887.1
12.5°	2163.9	2166.3	2188.5	2241.0	2313.4	2417.2	2561.3	2752.9	2791.8	2929.1	2885.5
15°	2061.0	2069.3	2089.2	2144.2	2221.1	2324.2	2472.1	2680.4	2726.8	2920.6	2899.3
17.5°	2026.7	2035.7	2041.9	2081.6	2151.8	2252.4	2404.3	2633.0	2685.8	2925.2	2926.0
20°	2062.5	2069.3	2055.6	2065.6	2109.0	2199.1	2347.0	2592.7	2655.2	2930.5	2960.3
22.5°	2195.9	2199.1	2161.7	2118.3	2110.6	2160.2	2302.0	2560.6	2627.7	2945.1	3000.7
25°	2424.9	2419.4	2358.5	2264.6	2176.1	2153.2	2275.3	2540.8	2614.0	2960.3	3042.6
27.5°	2700.9	2708.6	2624.7	2488.1	2319.6	2199.1	2271.5	2532.4	2607.9	2971.0	3079.3
30°	3036.6	3047.2	2951.1	2779.5	2537.7	2312.0	2306.6	2530.9	2604.0	2964.0	3082.4
32.5°	3379.1	3392.0	3316.5	3139.5	2829.1	2501.2	2385.9	2547.7	2611.7	2940.4	3064.7
35°	3737.6	3755.9	3705.5	3553.8	3224.1	2774.1	2525.6	2598.7	2647.6	2938.1	3047.2
37.5°	4232.5	4249.3	4154.8	3993.9	3702.5	3140.4	2749.8	2694.8	2732.3	2974.7	3051.8
40°	4971.7	4969.5	4725.4	4478.9	4228.1	3605.5	3064.7	2868.7	2887.8	3085.4	3108.2
42.5°	5777.2	5773.3	5412.6	5038.1	4811.5	4178.5	3479.0	3169.3	3156.4	3289.1	3254.6
45°	6398.1	6397.3	6102.8	5681.2	5514.1	4835.9	4014.4	3587.3	3567.4	3620.1	3524.7
47.5°	6662.8	6667.3	6519.4	6222.6	6292.8	5725.3	4689.5	4192.8	4163.1	4141.8	3996.9
50°	6456.7	6466.0	6478.1	6420.1	6864.0	6920.6	5595.0	5046.5	5031.9	4936.6	4710.2
52.5°	5784.0	5830.5	5974.0	6157.8	7062.5	8067.8	7014.3	6106.7	6029.0	5927.5	5678.0
55°	4650.5	4701.6	4973.9	5420.3	6767.2	8821.4	9003.7	7473.5	7344.0	7041.1	6681.1
57.5°	3077.8	3157.2	3552.2	4119.6	5909.9	8942.6	10988.3	9370.6	8919.0	8089.9	7684.1
60°	1695.6	1771.8	2200.6	2714.7	4268.4	8343.2	12323.3	11840.4	11042.5	9262.2	8902.3
62.5°	1044.2	1085.4	1402.0	1880.2	2559.8	6584.9	12599.4	14944.2	14020.3	10771.8	10373.5
65°	831.4	849.0	1003.8	1537.0	1835.1	3916.8	11707.7	17310.2	17002.0	12599.4	11690.9
67°	806.9	813.9	887.0	1319.6	1730.0	2401.2	9808.5	17695.4	18008.1	13705.4	11732.1
67.5°	812.3	820.0	889.4	1259.3	1726.9	2206.6	9154.0	17543.5	17938.8	13793.0	11549.8
70°	783.3	806.9	1018.3	1258.5	1642.2	1833.7	5481.9	15200.4	15611.6	12815.9	9800.0
72.5°	277.7	279.2	440.1	1018.3	1785.7	1853.6	2752.9	11143.2	11447.6	9803.8	7065.4
75°	164.7	140.3	146.5	289.9	1706.3	1800.2	1588.1	7120.4	7234.1	5617.8	3578.0
77.5°	113.6	99.2	102.1	128.2	649.8	1775.0	1261.6	3713.1	3591.9	1970.3	762.0
80°	64.9	57.2	61.1	112.1	236.4	1655.9	1190.0	1505.6	1283.8	334.1	210.6
82.5°	34.3	28.9	35.0	92.3	164.7	1032.1	1192.2	727.6	576.6	112.8	143.4
85°	12.1	9.9	16.8	63.3	109.9	316.6	1105.3	611.7	480.6	54.9	109.1
87.5°	2.2	2.2	6.8	26.0	44.2	96.8	653.6	363.1	243.4	32.8	74.7
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°	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0
2.5°	2874.8	2842.1	2797.9	2743.7	2679.6	2623.1	2581.2	2537.7	2528.5	2513.3	2511.0
5°	2855.8	2799.4	2689.5	2563.7	2429.3	2308.1	2209.7	2122.1	2083.1	2049.6	2045.7
7.5°	2827.5	2743.0	2556.0	2353.1	2143.4	1952.6	1791.0	1676.5	1571.2	1521.0	1513.4
10°	2794.7	2673.4	2405.8	2124.3	1834.5	1565.1	1324.9	1123.6	1001.5	929.0	920.0
12.5°	2764.3	2605.7	2252.4	1887.1	1501.8	1141.8	833.0	640.8	512.7	460.7	454.6
15°	2749.8	2550.6	2109.0	1644.5	1154.1	726.9	455.4	352.3	310.5	298.2	297.5
17.5°	2748.3	2504.1	1968.6	1393.6	808.6	422.6	296.7	270.7	262.3	259.3	259.3
20°	2747.5	2459.9	1828.3	1133.5	513.3	281.4	247.2	241.0	234.9	231.1	231.1
22.5°	2755.9	2420.3	1681.8	868.0	323.4	228.1	217.4	211.3	203.6	198.3	197.5
25°	2764.3	2389.8	1532.4	617.9	234.2	198.3	187.7	179.2	168.6	161.8	160.9
27.5°	2765.8	2351.7	1372.3	413.4	196.0	173.2	159.4	146.5	134.2	127.4	126.7
30°	2743.0	2287.5	1194.4	279.2	173.2	150.2	132.0	118.2	106.8	101.5	101.5
32.5°	2697.9	2208.3	999.3	210.6	154.1	128.8	109.1	96.1	88.6	86.1	85.3
35°	2657.5	2122.8	798.7	178.6	138.1	109.1	89.2	80.8	76.3	75.5	74.7
37.5°	2633.8	2054.2	610.2	161.8	122.8	91.5	75.5	69.3	67.2	65.5	66.4
40°	2652.2	1996.9	450.8	148.0	107.5	76.3	64.0	61.1	58.7	58.0	58.0
42.5°	2732.3	1987.1	334.9	135.7	93.1	63.3	55.7	53.4	51.8	51.2	51.8
45°	2942.8	2048.0	260.1	124.3	78.5	53.4	47.3	46.5	45.8	45.8	45.8
47.5°	3259.3	2173.9	216.6	111.4	65.5	45.8	41.2	40.5	39.6	40.5	40.5
50°	3795.5	2404.3	193.8	98.5	54.2	38.8	35.0	35.0	35.0	35.0	35.8
52.5°	4610.9	2857.2	178.6	85.3	44.2	32.8	29.7	29.7	30.5	30.5	31.4
55°	5519.4	3458.4	164.7	72.5	37.4	27.5	24.4	25.2	26.0	26.7	26.7
57.5°	6504.8	4124.3	153.3	59.5	32.0	22.1	20.7	21.4	22.1	23.6	23.6
60°	7694.1	4845.1	136.5	46.5	26.7	17.5	16.0	17.5	19.9	21.4	22.1
62.5°	8999.8	5542.3	115.3	36.7	22.1	13.7	12.9	16.0	19.0	20.7	21.4
65°	9892.3	5761.2	88.6	29.7	16.8	9.9	10.7	14.6	18.3	20.7	20.7
67°	9530.7	5223.5	72.5	25.2	13.7	7.6	9.9	14.6	18.3	19.9	20.7
67.5°	9279.9	5012.9	69.3	24.4	12.9	7.6	9.9	14.6	18.3	20.7	20.7
70°	7550.7	3765.8	58.0	18.3	10.7	6.8	8.4	13.7	17.5	19.9	19.9
72.5°	5246.3	2321.8	51.8	12.9	9.2	6.1	7.6	12.9	16.8	19.0	19.9
75°	2494.2	840.5	44.2	9.9	8.4	5.3	6.8	12.9	16.8	19.0	19.0
77.5°	508.8	195.3	35.8	8.4	6.8	5.3	6.1	12.1	16.0	18.3	18.3
80°	167.1	75.5	26.7	7.6	6.8	5.3	6.1	11.5	16.0	17.5	18.3
82.5°	120.6	38.2	17.5	7.6	6.8	5.3	5.3	11.5	15.2	17.5	17.5
85°	92.3	26.7	11.5	7.6	6.8	5.3	5.3	10.7	14.6	16.8	16.8
87.5°	61.1	10.7	9.2	7.6	6.8	5.3	5.3	10.7	13.7	16.0	16.8
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)