

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: P322858

Luminaire Tested: **GAN-SA4D-730-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322858  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4D-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20659 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

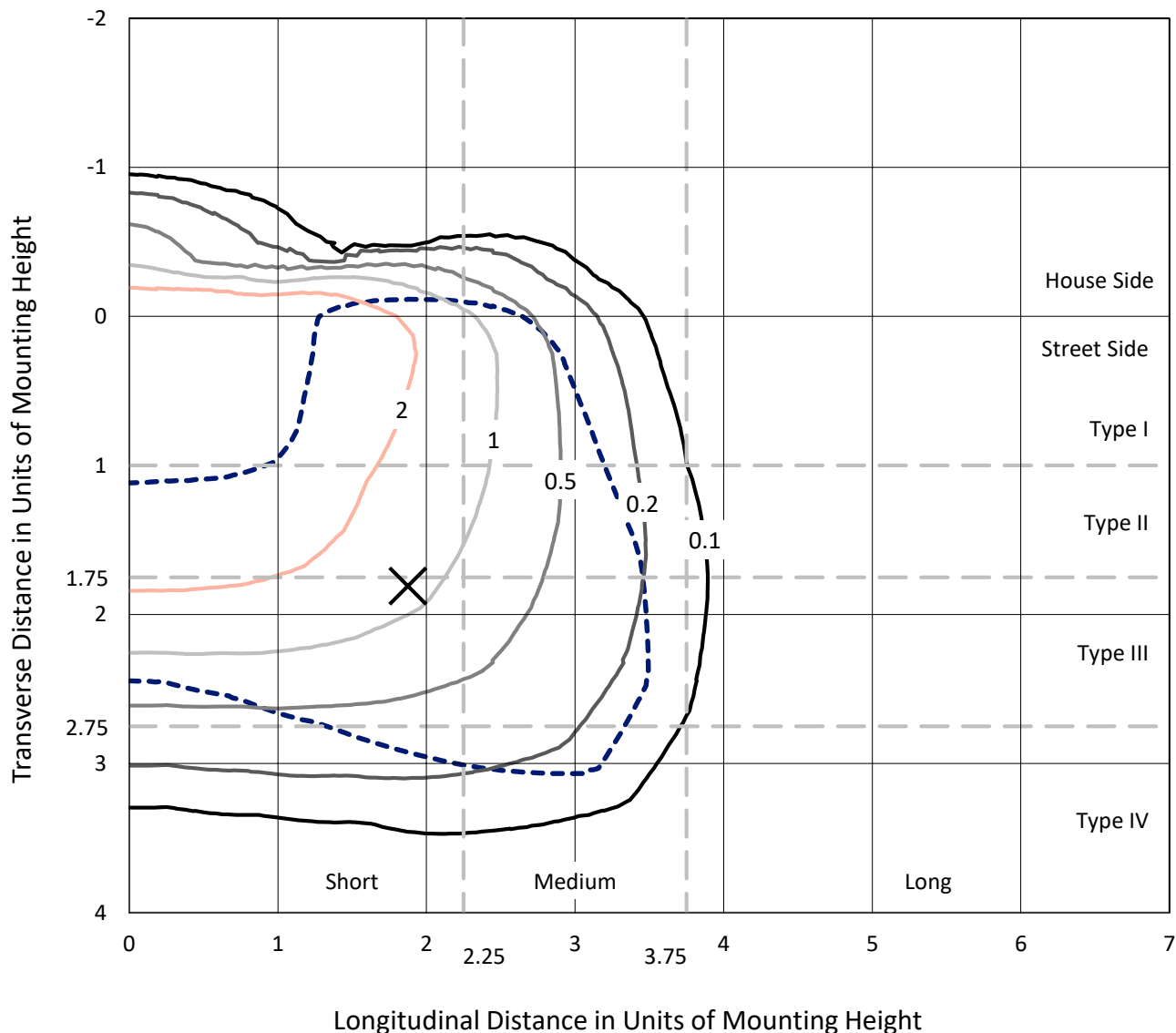
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

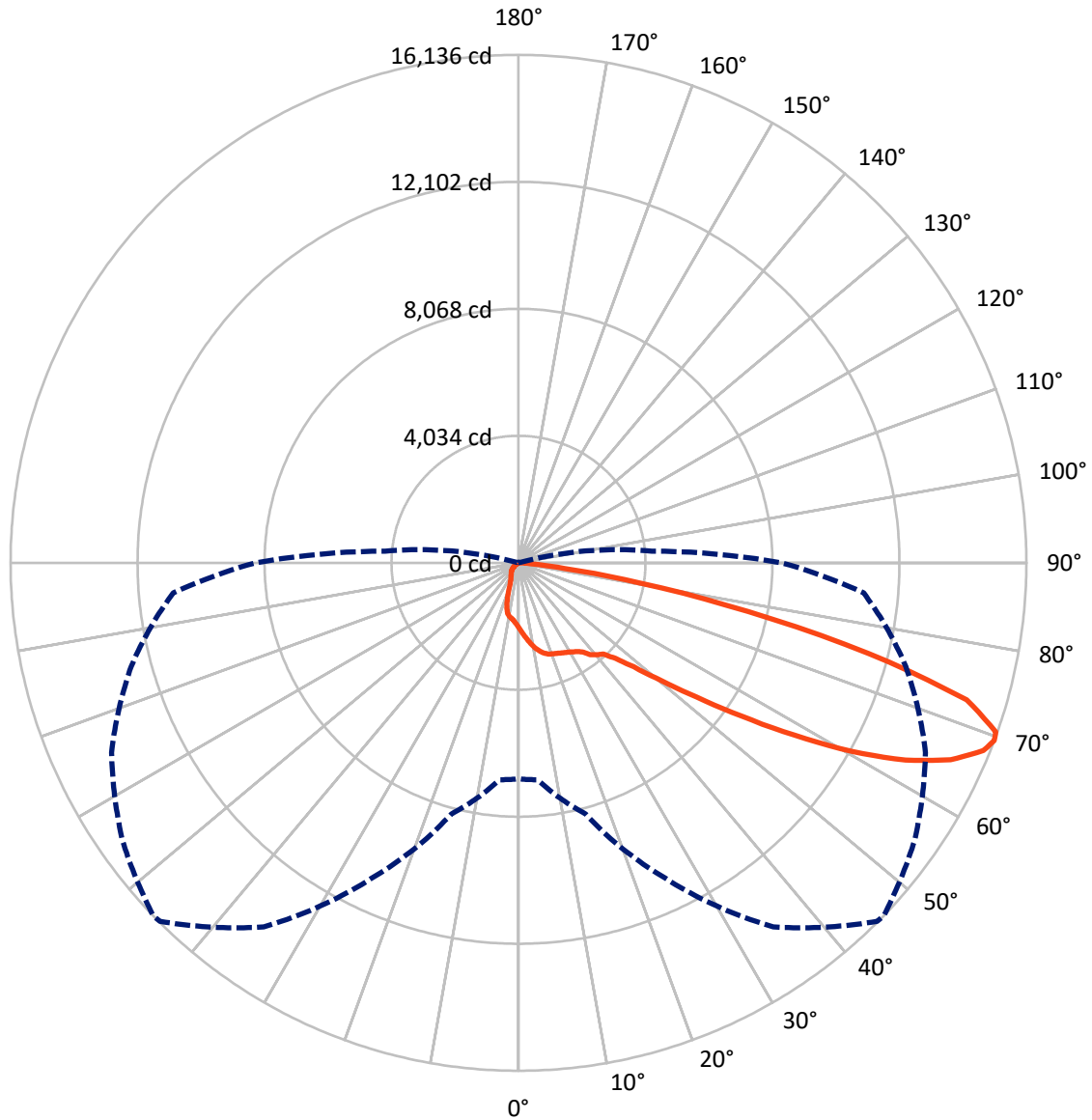
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2120.2	0.0	2120.2
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	18538.8	0.0	18538.8
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	20659.0	0.0	20659.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.0	1.0
10°-20°	625.0	3.0
20°-30°	983.0	4.8
30°-40°	1409.6	6.8
40°-50°	2436.4	11.8
50°-60°	4813.3	23.3
60°-70°	6727.0	32.6
70°-80°	3249.8	15.7
80°-90°	208.9	1.0
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°	20659.0	100.0
0°-180°	20659.0	100.0

**Coefficient of Utilization**

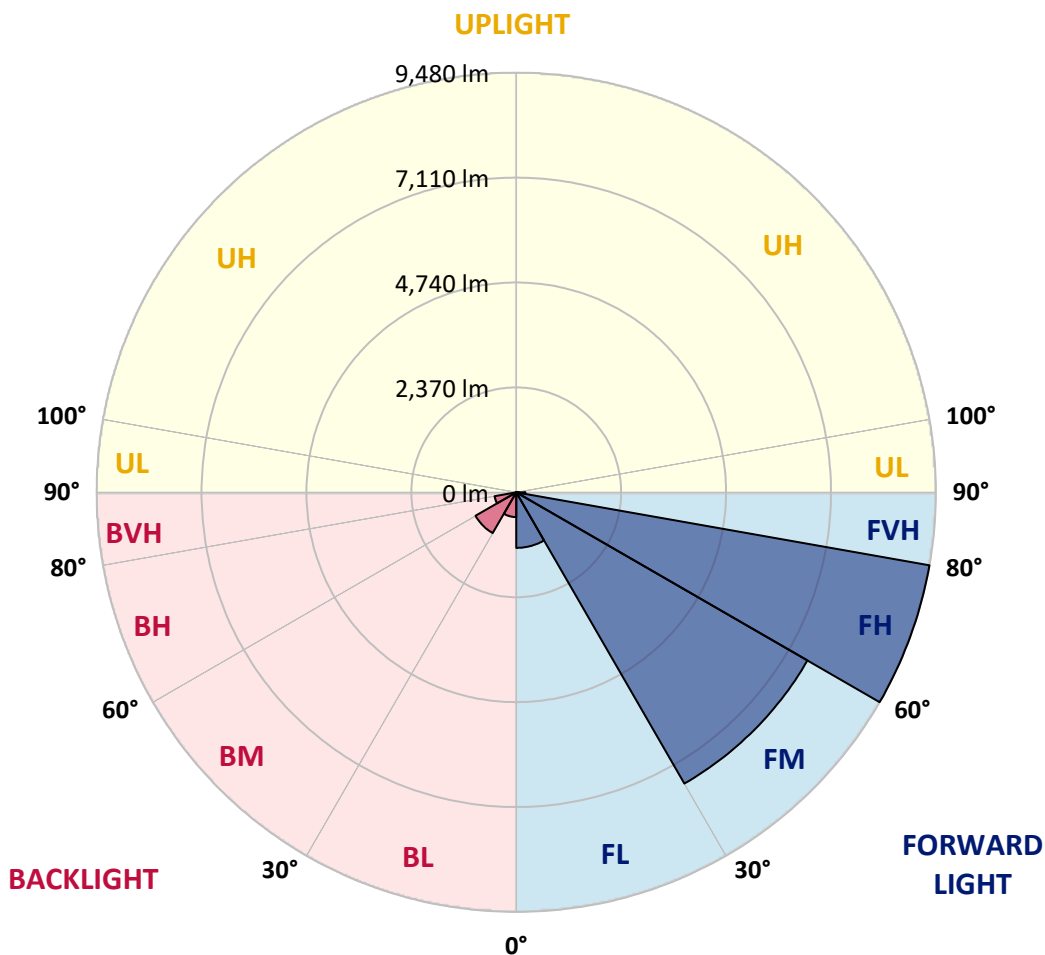


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1255.3	6.1			
FM (30°-60°)	7596.8	36.8			
FH (60°-80°)	9479.7	45.9			G4/12000
FVH (80°-90°)	207.1	1.0			G2/225
BL (0°-30°)	558.8	2.7	B2/1000		
BM (30°-60°)	1062.5	5.1	B2/2500		
BH (60°-80°)	497.1	2.4	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2070.0	2070.0	2070.0	2070.0	2070.0	2070.0	2070.0	2070.0	2070.0	2070.0	2070.0
2.5°	2299.5	2296.6	2283.1	2277.2	2244.3	2224.9	2217.2	2193.0	2158.1	2123.2	2084.5
5°	2561.0	2560.1	2534.9	2510.7	2448.7	2390.6	2379.9	2323.7	2245.3	2171.7	2098.0
7.5°	2828.4	2815.8	2790.6	2744.1	2654.0	2561.0	2552.3	2472.9	2361.5	2255.0	2149.4
10°	3055.0	3047.3	3014.4	2943.7	2838.1	2732.5	2721.8	2624.0	2498.1	2367.3	2232.7
12.5°	3231.3	3225.5	3181.9	3093.8	2981.4	2872.0	2857.4	2770.3	2635.6	2489.4	2330.5
15°	3338.9	3335.9	3282.7	3188.7	3078.3	2983.4	2970.8	2894.3	2769.3	2616.3	2437.1
17.5°	3364.0	3365.0	3309.8	3214.9	3123.8	3056.0	3046.3	2988.2	2883.6	2731.5	2543.6
20°	3307.9	3319.5	3270.1	3187.7	3131.6	3095.7	3088.0	3053.1	2965.0	2821.6	2628.9
22.5°	3228.4	3234.2	3200.3	3145.1	3121.9	3128.7	3124.8	3105.4	3030.8	2899.1	2713.1
25°	3180.0	3180.0	3159.7	3113.2	3128.7	3170.3	3171.3	3167.4	3108.3	2994.0	2815.8
27.5°	3178.1	3172.3	3149.0	3114.1	3156.8	3220.7	3224.6	3250.7	3213.9	3109.3	2943.7
30°	3255.6	3248.8	3199.4	3153.8	3208.1	3276.9	3286.5	3343.7	3325.3	3234.2	3086.0
32.5°	3436.7	3412.5	3303.0	3228.4	3269.1	3351.4	3364.0	3455.1	3484.1	3388.3	3223.6
35°	3684.7	3608.1	3450.2	3369.9	3373.7	3459.9	3471.6	3605.2	3691.4	3529.7	3330.1
37.5°	4026.6	3988.8	3732.1	3517.1	3534.5	3665.3	3699.2	3844.5	3820.3	3607.2	3451.2
40°	4776.3	4717.2	4444.1	3929.7	3688.5	3831.9	3842.5	3920.0	3922.0	3782.5	3703.1
42.5°	5797.2	5773.0	5485.3	4678.5	3991.7	3943.3	3962.7	4093.4	4239.7	4152.5	4148.6
45°	6927.6	6915.0	6609.9	5672.3	4604.8	4308.5	4332.7	4508.0	4787.9	4807.3	4930.3
47.5°	7837.2	7831.3	7656.0	6781.4	5543.4	4927.4	4935.2	5121.1	5613.2	5856.3	6052.9
50°	8666.3	8694.4	8555.9	7981.5	6822.0	5897.0	5878.6	6002.6	6793.0	7191.1	7435.2
52.5°	9819.0	9858.7	9470.3	9101.2	8163.6	7100.0	7085.5	7215.3	8211.0	8509.4	8553.0
55°	10837.0	10769.2	10462.1	10355.6	9799.6	8585.9	8582.0	8696.3	9582.6	9709.5	9789.9
57.5°	11286.4	11260.3	11408.5	11652.6	11513.1	10342.0	10333.3	10246.1	10809.9	10823.4	11070.4
60°	11570.2	11602.2	12056.5	12809.1	13156.9	12231.8	12175.6	11643.9	11981.9	11951.9	12216.3
62.5°	11357.1	11420.1	12237.6	13492.0	14387.0	13881.4	13802.0	12924.4	12983.5	12879.8	13125.9
65°	10225.8	10323.6	11663.2	13363.2	14997.2	15170.6	15090.2	14054.8	13778.7	13608.2	13471.7
67.5°	8303.1	8361.2	9759.9	12242.5	14722.2	15939.7	15923.2	15045.7	14379.3	13485.2	12425.5
69°	6861.7	6918.9	8265.3	11062.7	14116.8	16104.4	16136.3	15363.4	14265.0	12737.4	11009.4
70°	5811.8	5872.8	7127.2	10051.4	13414.5	16027.9	16085.0	15333.4	13937.6	11871.5	9766.7
72.5°	3048.3	3100.6	4387.9	6924.7	10935.8	14717.3	14890.7	14037.3	11814.3	8621.7	5775.0
75°	958.0	988.0	1713.5	3619.8	7487.5	11443.4	11483.1	11011.3	8389.3	4742.4	2405.1
77.5°	365.2	356.5	570.5	1333.8	3785.4	7205.6	7448.7	6881.1	4402.4	1676.7	555.0
80°	196.6	197.6	296.4	552.1	1619.5	3703.1	3908.4	3335.0	1564.3	523.1	127.9
82.5°	85.2	89.1	166.6	292.5	743.9	1365.8	1468.4	1222.4	597.6	351.6	47.5
85°	18.4	20.3	80.4	158.9	303.2	383.6	402.0	396.2	380.7	273.2	18.4
87.5°	0.0	0.0	35.8	57.1	76.5	87.2	76.5	99.8	210.2	184.0	9.7
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°	2070.0	2070.0	2070.0	2070.0	2070.0	2070.0	2070.0	2070.0	2070.0	2070.0	2070.0
2.5°	2071.9	2054.5	2024.4	1991.5	1968.2	1944.0	1924.7	1915.9	1906.3	1899.5	1908.2
5°	2068.0	2034.1	1976.0	1919.8	1879.1	1846.2	1819.1	1808.4	1797.8	1790.0	1789.1
7.5°	2101.9	2054.5	1965.3	1883.0	1820.0	1775.5	1738.7	1723.2	1710.6	1704.8	1699.9
10°	2166.8	2105.8	1986.7	1879.1	1797.8	1722.2	1642.8	1581.8	1542.1	1523.6	1516.9
12.5°	2251.1	2174.6	2027.3	1899.5	1781.3	1636.0	1467.5	1322.2	1228.2	1197.2	1178.8
15°	2349.9	2255.0	2080.6	1925.6	1721.2	1455.8	1170.1	980.2	893.1	875.6	856.3
17.5°	2444.8	2340.2	2144.5	1930.5	1589.5	1163.3	857.2	728.4	694.5	706.1	709.0
20°	2528.1	2424.5	2207.5	1887.9	1350.3	872.7	663.5	631.5	644.1	666.4	670.3
22.5°	2612.4	2505.8	2265.6	1775.5	1044.2	662.5	597.6	605.4	618.0	640.3	644.1
25°	2715.1	2604.6	2319.9	1569.2	783.6	563.7	567.6	579.2	591.8	612.2	614.1
27.5°	2833.2	2729.6	2355.7	1300.9	581.2	518.2	530.8	548.2	560.8	580.2	584.1
30°	2990.1	2894.3	2367.3	1022.9	487.2	477.5	483.3	504.7	523.1	540.5	543.4
32.5°	3137.4	3057.0	2328.6	772.0	451.4	439.8	439.8	452.3	473.7	490.1	494.0
35°	3273.0	3220.7	2204.6	564.7	424.3	404.9	395.2	395.2	408.8	422.3	426.2
37.5°	3452.2	3450.2	2004.1	450.4	398.1	375.8	355.5	340.0	335.1	338.1	340.0
40°	3759.2	3762.1	1742.6	403.9	375.8	345.8	314.8	286.7	260.6	251.8	250.9
42.5°	4238.7	4195.1	1468.4	381.6	356.5	314.8	268.3	230.5	189.9	177.3	176.3
45°	5000.0	4741.4	1177.8	361.3	336.1	279.9	221.8	170.5	137.5	127.9	127.9
47.5°	6109.1	5459.2	912.4	339.0	309.0	240.2	167.6	123.0	100.7	95.9	96.9
50°	7256.0	6162.4	699.3	310.9	276.1	198.6	124.0	89.1	76.5	76.5	77.5
52.5°	8273.0	6677.7	545.3	280.9	235.4	155.9	94.0	69.7	63.9	63.0	63.9
55°	9225.2	7009.9	417.5	246.0	186.9	116.2	71.7	57.1	53.3	51.3	50.4
57.5°	10143.5	7174.6	312.9	198.6	135.6	84.3	57.1	48.4	44.6	41.7	40.7
60°	10754.7	7040.9	215.0	146.3	94.0	61.0	47.5	41.7	36.8	33.9	32.9
62.5°	11099.5	6675.8	138.5	105.6	66.8	45.5	37.8	34.9	28.1	25.2	25.2
65°	10960.0	6073.3	96.9	75.6	48.4	33.9	28.1	28.1	20.3	16.5	15.5
67.5°	9712.4	5130.8	73.6	56.2	34.9	25.2	21.3	24.2	12.6	7.7	7.7
69°	8356.3	4252.3	63.0	46.5	29.1	20.3	18.4	22.3	8.7	5.8	4.8
70°	7262.8	3668.2	57.1	40.7	24.2	17.4	16.5	21.3	8.7	4.8	3.9
72.5°	4345.3	2045.7	43.6	29.1	15.5	13.6	13.6	24.2	8.7	4.8	3.9
75°	1756.1	720.7	32.0	20.3	11.6	11.6	16.5	31.0	7.7	3.9	2.9
77.5°	398.1	157.9	18.4	12.6	7.7	11.6	19.4	24.2	4.8	1.9	0.0
80°	96.9	38.7	11.6	7.7	4.8	8.7	14.5	13.6	1.0	0.0	0.0
82.5°	32.0	13.6	4.8	3.9	1.0	2.9	6.8	3.9	0.0	0.0	0.0
85°	13.6	7.7	1.9	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
87.5°	8.7	2.9	0.0	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)