

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: P321616

Luminaire Tested: **GAN-SA2D-740-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321616  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2D-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12210 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

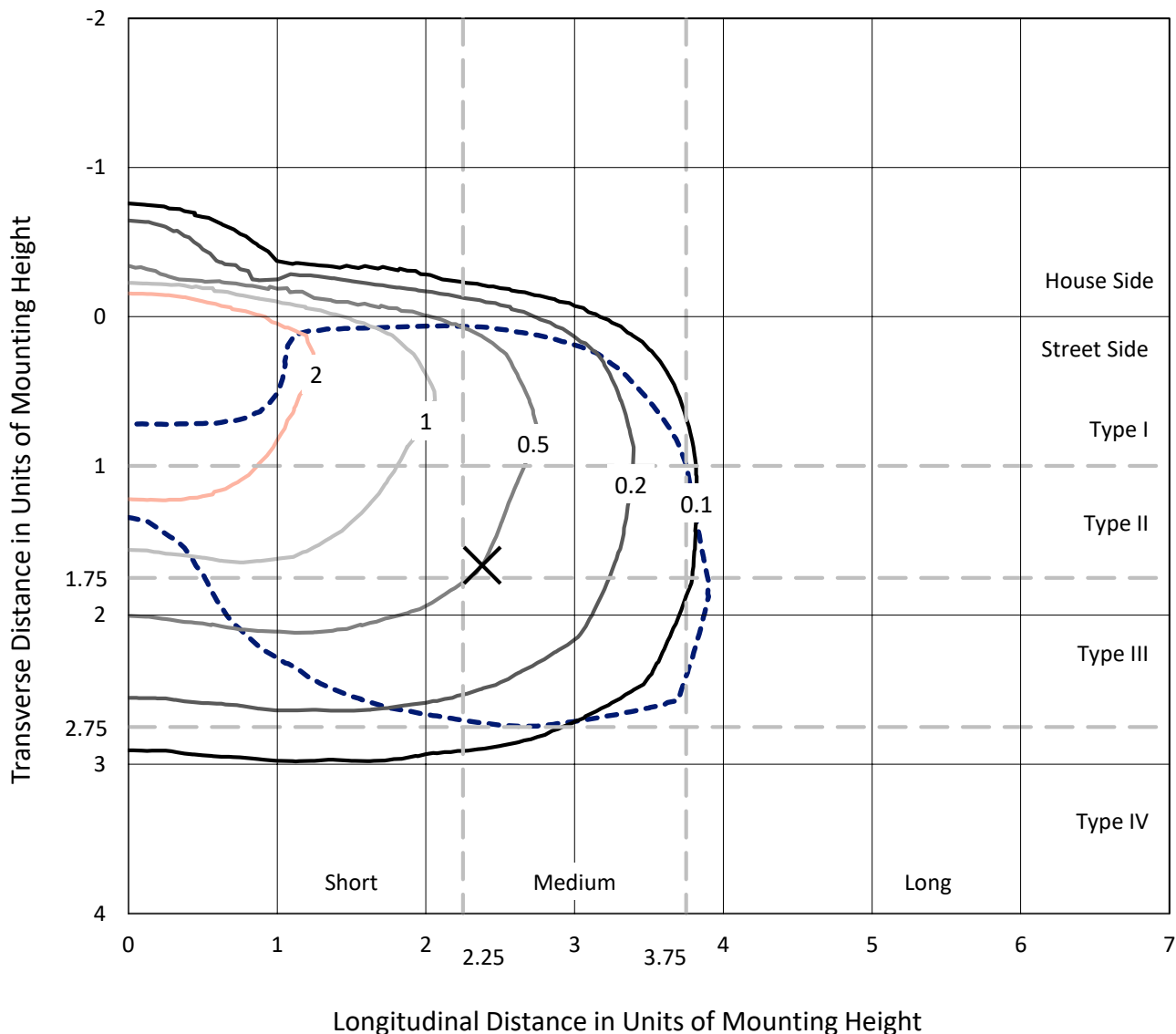
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

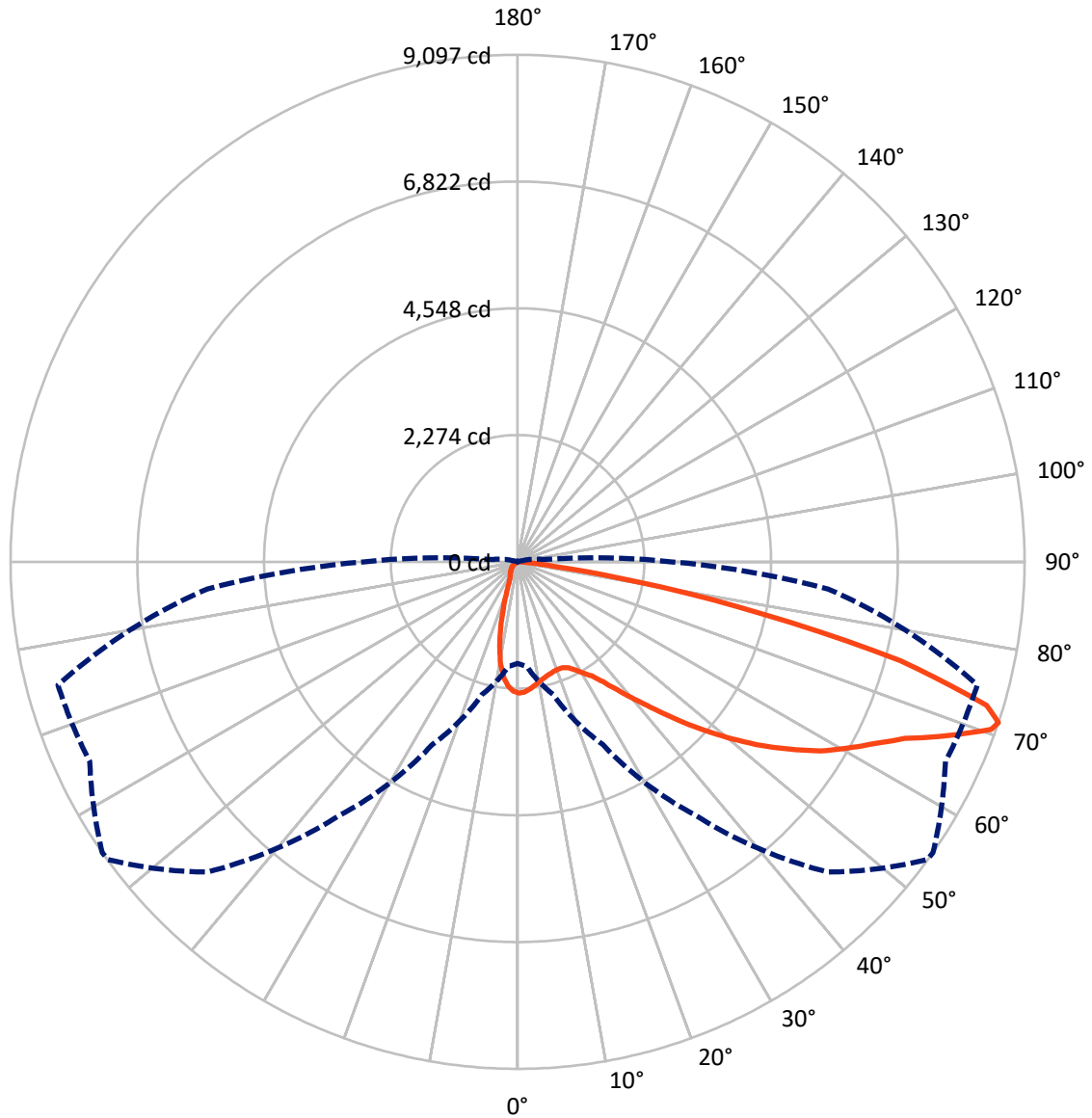
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	966.7	0.0	966.7
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	11243.3	0.0	11243.3
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	12210.0	0.0	12210.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.8	1.6
10°-20°	453.3	3.7
20°-30°	728.4	6.0
30°-40°	1237.6	10.1
40°-50°	1920.9	15.7
50°-60°	2582.6	21.2
60°-70°	3159.4	25.9
70°-80°	1847.2	15.1
80°-90°	79.8	0.7
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°	12210.0	100.0
0°-180°	12210.0	100.0

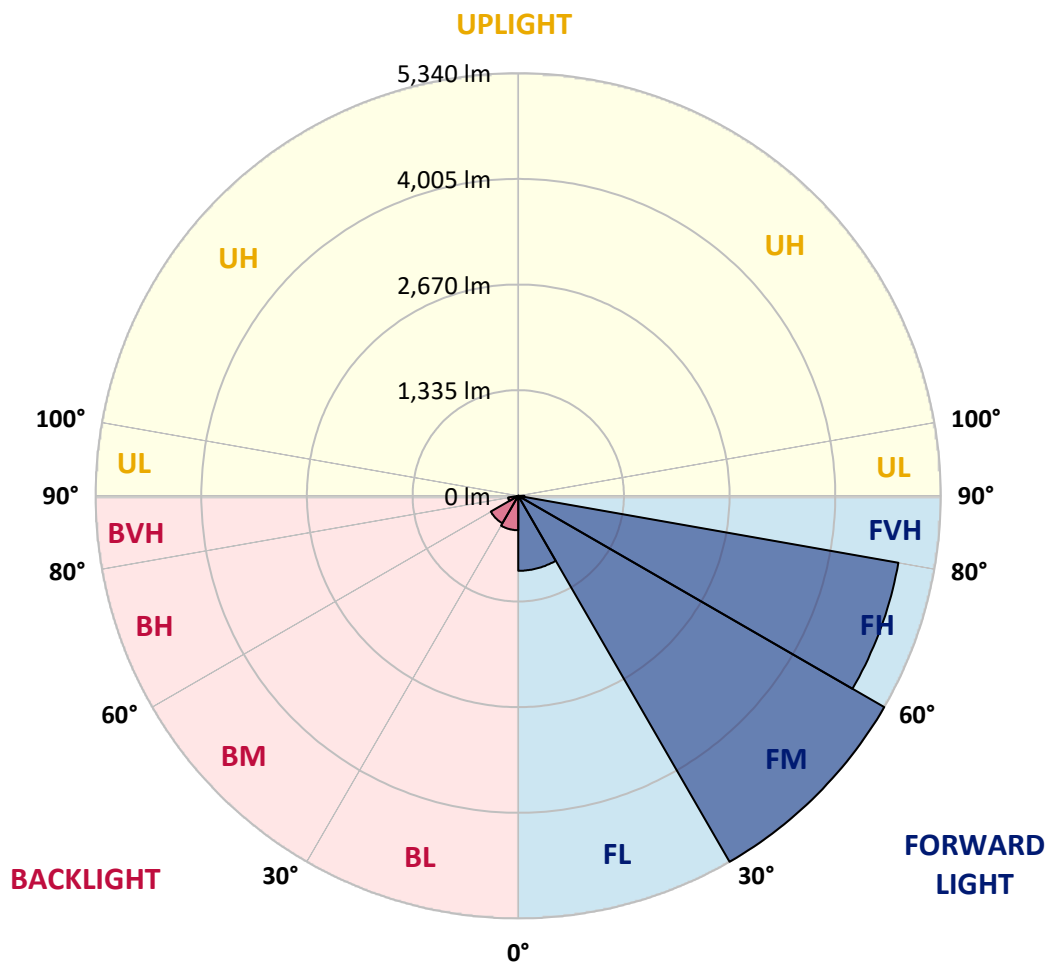


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	947.3	7.8			
FM (30°-60°)	5340.3	43.7			
FH (60°-80°)	4877.1	39.9			G2/5000
FVH (80°-90°)	78.6	0.6			G1/100
BL (0°-30°)	435.1	3.6	B1/500		
BM (30°-60°)	400.8	3.3	B1/1000		
BH (60°-80°)	129.5	1.1	B1/500		G1/500
BVH (80°-90°)	1.3	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2354.7	2354.7	2354.7	2354.7	2354.7	2354.7	2354.7	2354.7	2354.7	2354.7	2354.7
2.5°	2285.7	2288.4	2298.3	2302.7	2313.1	2330.6	2339.4	2339.9	2354.2	2359.7	2364.1
5°	2123.9	2140.4	2156.8	2174.4	2206.2	2248.4	2290.0	2293.9	2339.9	2373.9	2392.0
7.5°	1984.7	1999.5	2019.2	2047.2	2092.1	2158.5	2228.1	2236.3	2323.5	2400.8	2441.4
10°	1841.6	1853.6	1882.1	1923.3	1985.2	2074.0	2167.8	2181.5	2308.7	2437.0	2508.3
12.5°	1688.6	1695.7	1730.3	1789.5	1880.5	1993.4	2116.8	2134.9	2299.4	2478.6	2587.2
15°	1572.4	1575.7	1608.6	1670.0	1774.1	1921.1	2077.3	2099.3	2301.6	2528.5	2673.3
17.5°	1542.8	1544.4	1562.0	1604.2	1696.3	1856.4	2046.1	2072.9	2308.1	2577.3	2759.9
20°	1662.8	1651.3	1633.2	1626.7	1666.1	1817.5	2027.4	2057.6	2316.9	2620.6	2837.8
22.5°	1992.3	1958.4	1883.2	1782.9	1722.1	1820.2	2032.4	2062.5	2344.9	2673.8	2927.7
25°	2481.4	2434.2	2306.5	2109.1	1919.4	1899.1	2073.5	2104.2	2399.2	2737.4	3013.7
27.5°	3037.9	2991.3	2835.0	2553.2	2229.7	2055.4	2167.8	2196.3	2479.7	2793.9	3079.5
30°	3570.8	3557.6	3373.4	3053.2	2620.1	2308.7	2289.5	2313.6	2539.5	2827.9	3131.6
32.5°	4022.5	4001.7	3853.7	3542.3	3066.9	2613.0	2432.6	2439.7	2584.5	2871.7	3199.6
35°	4441.4	4415.6	4285.7	3991.3	3525.3	2984.7	2653.0	2642.6	2682.6	2960.0	3298.3
37.5°	4807.1	4830.6	4686.5	4406.3	3936.4	3371.2	2950.1	2918.9	2836.1	3103.7	3441.4
40°	5113.0	5113.0	5037.9	4804.3	4380.5	3770.9	3286.2	3245.1	3066.9	3325.1	3622.8
42.5°	5223.2	5246.8	5274.7	5142.6	4778.0	4186.5	3660.7	3617.9	3392.0	3639.3	3852.0
45°	5229.8	5267.1	5410.2	5409.6	5137.1	4599.3	4082.8	4062.5	3808.7	4042.8	4136.0
47.5°	5137.1	5183.7	5419.5	5553.2	5421.7	4983.6	4544.5	4519.2	4298.3	4537.3	4433.2
50°	4994.0	5045.6	5319.7	5609.7	5615.2	5318.0	5030.8	4992.9	4837.2	5102.6	4740.2
52.5°	4738.0	4837.8	5230.3	5622.9	5742.4	5607.0	5493.5	5477.0	5440.3	5647.0	4984.7
55°	4190.3	4301.0	5006.1	5627.3	5860.3	5863.0	5927.2	5931.5	6005.6	6155.8	5166.7
57.5°	3931.5	3994.0	4614.6	5648.1	6035.2	6153.6	6369.0	6403.0	6517.6	6638.8	5374.5
60°	3768.7	3842.7	4421.7	5619.6	6309.8	6534.6	6778.6	6790.1	6912.9	7137.1	5655.8
62.5°	3638.7	3711.7	4299.9	5509.9	6618.5	6993.0	7178.8	7179.9	7272.0	7730.9	5975.4
65°	3318.0	3379.4	4053.8	5386.6	6822.4	7446.4	7643.7	7636.6	7711.7	8357.0	6346.6
67.5°	2854.2	2901.3	3551.0	4918.9	6745.7	7858.6	8345.5	8321.9	8230.9	8898.1	6492.4
70°	2206.7	2223.7	2798.8	4099.3	6026.4	8017.1	9023.7	9011.6	8549.4	8801.1	5957.9
71°	1824.0	1880.0	2466.6	3617.9	5544.5	7870.7	9089.5	9096.6	8469.4	8536.8	5590.0
72.5°	1059.2	1106.9	1787.8	2778.5	4707.3	7260.0	8748.5	8800.0	8095.5	7764.9	4774.7
75°	227.0	242.9	662.8	1344.9	2589.4	5088.3	6905.2	7088.9	6598.2	5282.4	2877.8
77.5°	157.9	170.5	284.0	610.2	855.8	2514.3	4289.5	4496.8	3941.9	1985.2	921.1
80°	125.0	139.3	221.5	301.5	231.4	810.9	2009.3	2136.0	1314.7	443.0	155.2
82.5°	69.6	82.8	172.7	162.8	88.8	154.1	562.5	636.0	263.2	89.4	36.7
85°	20.3	24.7	111.3	118.4	37.8	29.6	95.9	119.0	49.9	23.6	16.4
87.5°	0.0	0.0	53.7	45.5	11.0	4.4	8.8	9.9	9.9	9.9	11.0
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°	2354.7	2354.7	2354.7	2354.7	2354.7	2354.7	2354.7	2354.7	2354.7	2354.7	2354.7
2.5°	2364.1	2367.9	2354.2	2336.1	2316.9	2293.3	2268.7	2249.5	2248.9	2239.6	2230.3
5°	2393.1	2390.9	2353.1	2295.5	2227.5	2156.8	2089.4	2013.2	1988.0	1956.7	1946.3
7.5°	2446.8	2431.5	2351.5	2225.4	2076.2	1928.2	1775.2	1621.2	1555.4	1496.2	1485.8
10°	2514.3	2485.2	2341.0	2120.1	1846.5	1573.5	1342.7	1133.2	1041.1	970.4	967.1
12.5°	2584.5	2540.1	2312.0	1961.1	1545.5	1161.7	895.8	689.7	612.9	563.6	568.0
15°	2657.9	2591.6	2249.5	1746.7	1202.9	788.4	550.4	429.3	398.6	386.0	389.3
17.5°	2733.0	2627.2	2162.3	1488.5	864.6	508.8	381.0	347.0	347.0	349.8	350.9
20°	2798.3	2646.4	2034.0	1199.0	586.1	370.6	333.3	328.4	331.1	335.5	336.1
22.5°	2863.0	2647.5	1866.8	905.7	410.1	324.6	317.4	315.2	316.9	321.8	322.4
25°	2915.6	2634.4	1657.4	644.2	327.3	305.9	302.6	301.5	302.6	308.7	308.7
27.5°	2937.0	2586.7	1401.9	452.9	293.3	285.1	284.0	285.1	286.7	291.1	291.7
30°	2939.2	2503.3	1123.4	327.9	265.9	257.1	259.3	263.2	261.5	260.4	261.5
32.5°	2944.7	2406.8	852.0	269.7	242.9	229.2	226.4	226.4	219.8	216.0	213.8
35°	2962.8	2293.3	617.9	242.3	219.3	203.4	193.0	180.9	168.3	161.7	160.1
37.5°	2991.3	2174.4	442.4	224.2	198.5	180.4	160.6	139.3	121.2	116.2	116.2
40°	3043.3	2051.6	327.3	210.0	182.0	159.5	129.9	102.0	85.5	82.8	82.8
42.5°	3125.6	1922.2	261.0	197.4	167.8	138.2	99.2	74.0	62.0	60.3	59.8
45°	3211.1	1779.6	228.1	185.3	152.4	113.5	73.5	54.8	47.7	46.1	46.1
47.5°	3296.6	1627.8	212.2	173.8	137.6	88.3	54.8	43.3	40.0	40.0	40.6
50°	3369.0	1469.3	200.7	161.2	118.4	66.9	43.3	36.7	35.6	37.8	38.4
52.5°	3387.1	1313.6	186.4	145.3	94.8	51.0	35.6	32.3	32.3	32.3	32.3
55°	3376.1	1193.0	167.8	125.5	70.2	40.6	30.7	28.5	28.0	28.0	28.0
57.5°	3413.4	1121.7	134.3	97.6	50.4	32.9	26.9	25.2	24.1	23.6	23.6
60°	3488.5	1075.1	95.9	70.2	37.8	27.4	23.0	21.4	19.7	18.6	18.6
62.5°	3588.3	1034.6	71.3	52.1	29.1	21.9	19.2	17.5	15.4	14.3	14.3
65°	3665.1	962.2	54.3	38.9	21.9	17.5	14.8	14.3	11.0	9.9	9.3
67.5°	3547.7	803.2	43.9	28.5	16.4	13.7	11.5	11.0	6.6	5.5	5.5
70°	3042.8	559.2	35.1	20.8	12.1	11.0	9.3	7.1	4.9	4.4	4.4
71°	2759.4	467.1	31.8	17.5	10.4	10.4	8.8	6.0	4.4	3.8	3.8
72.5°	2292.2	331.7	26.9	13.7	9.3	11.0	9.3	5.5	4.4	3.8	3.3
75°	1330.6	138.7	18.6	9.3	7.1	13.2	12.1	4.9	3.3	2.7	2.7
77.5°	400.2	51.0	10.4	6.0	5.5	11.5	13.7	4.4	1.6	0.5	0.5
80°	72.9	21.9	6.6	3.8	3.8	7.1	10.4	2.2	0.0	0.0	0.0
82.5°	25.8	11.0	3.8	2.2	1.6	3.3	4.9	0.0	0.0	0.0	0.0
85°	14.8	7.7	2.2	1.1	0.0	0.5	1.1	0.0	0.0	0.0	0.0
87.5°	9.9	2.2	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)