

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: P192870

Luminaire Tested: **GAN-AF-02-LED-U-SL3-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-SL3-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 10063.9 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

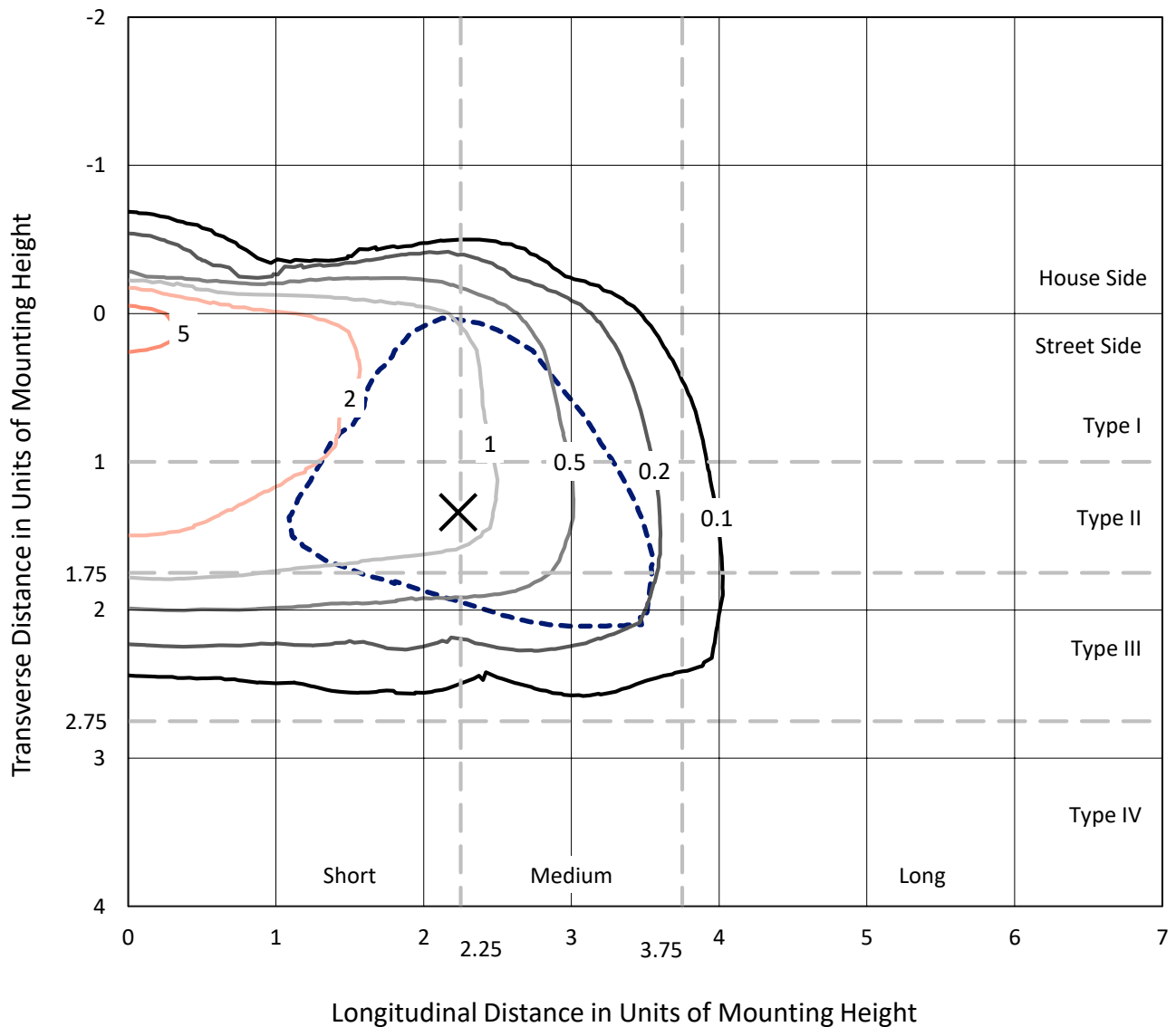
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

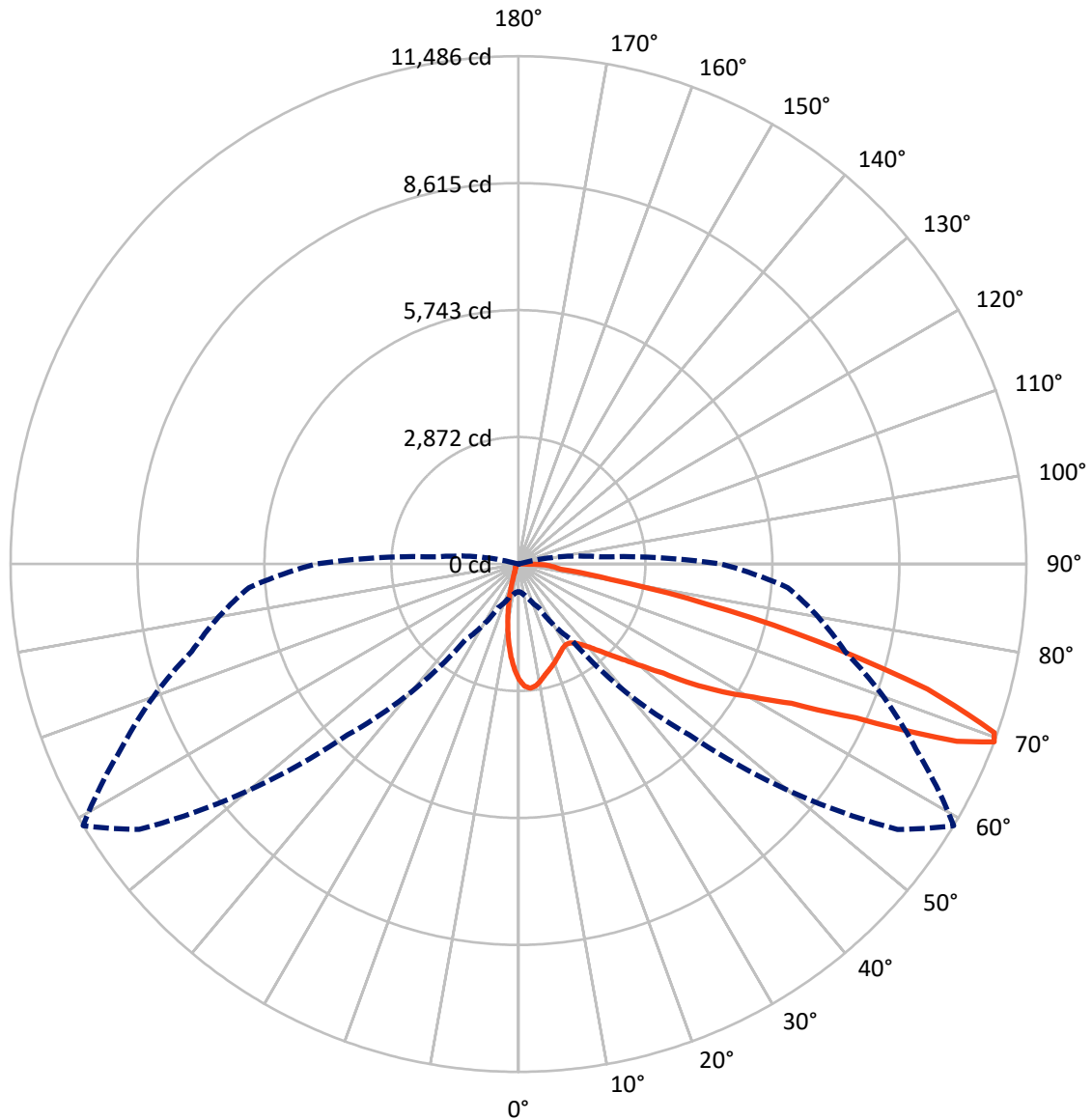
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	819.6	0.0	819.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	9244.3	0.0	9244.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	10063.9	0.0	10063.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.6	2.1
10°-20°	439.3	4.4
20°-30°	591.2	5.9
30°-40°	858.4	8.5
40°-50°	1429.3	14.2
50°-60°	2229.6	22.2
60°-70°	2759.0	27.4
70°-80°	1398.2	13.9
80°-90°	146.3	1.5
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°	10063.9	100.0
0°-180°	10063.9	100.0



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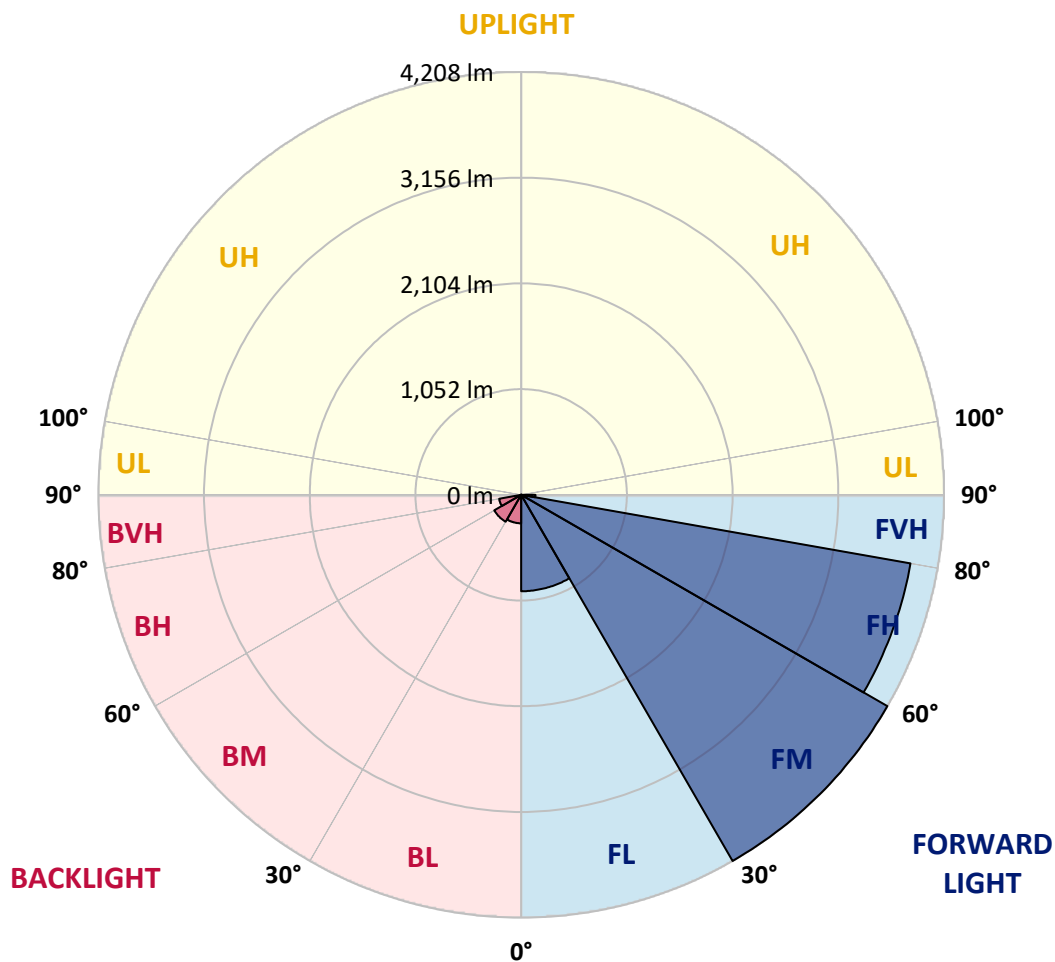
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	959.5	9.5			
FM	(30°-60°)	4208.4	41.8			
FH	(60°-80°)	3934.6	39.1			G2/5000
FVH	(80°-90°)	141.8	1.4			G2/225
BL	(0°-30°)	283.7	2.8	B1/500		
BM	(30°-60°)	308.8	3.1	B1/1000		
BH	(60°-80°)	222.6	2.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2619.5	2619.5	2619.5	2619.5	2619.5	2619.5	2619.5	2619.5	2619.5	2619.5	2619.5
2.5°	2871.0	2869.9	2857.3	2851.6	2841.4	2819.8	2786.2	2768.6	2740.1	2690.6	2624.1
5°	2844.9	2858.5	2865.9	2866.4	2873.8	2865.9	2835.8	2821.0	2781.6	2702.0	2582.5
7.5°	2667.2	2672.4	2693.5	2711.7	2747.0	2780.5	2791.3	2785.1	2761.7	2676.5	2517.7
10°	2477.2	2482.4	2507.4	2531.3	2579.1	2630.9	2685.5	2696.8	2706.6	2639.9	2455.0
12.5°	2313.3	2318.5	2344.0	2375.3	2431.1	2494.8	2579.6	2598.4	2641.2	2605.3	2404.9
15°	2172.2	2174.5	2199.5	2238.1	2304.9	2386.8	2482.9	2513.1	2578.5	2580.8	2361.1
17.5°	2052.1	2057.8	2073.2	2110.2	2183.0	2284.3	2396.4	2439.6	2516.5	2560.3	2318.5
20°	1978.6	1984.3	1983.8	2004.4	2069.7	2177.9	2310.0	2361.6	2455.0	2539.3	2280.3
22.5°	1964.5	1964.5	1949.6	1946.8	1985.6	2076.0	2220.0	2283.2	2399.8	2530.1	2253.6
25°	2015.1	2012.9	1975.9	1945.7	1947.4	2001.4	2133.0	2208.0	2353.1	2536.5	2239.4
27.5°	2122.2	2119.3	2072.6	2015.1	1969.1	1968.5	2066.8	2147.7	2316.2	2566.0	2245.1
30°	2270.1	2268.9	2218.3	2146.0	2062.4	1985.6	2044.1	2117.6	2292.3	2619.5	2258.2
32.5°	2431.7	2430.0	2391.9	2315.6	2209.8	2062.4	2068.1	2129.5	2299.2	2690.6	2290.0
35°	2603.0	2600.2	2583.7	2517.0	2400.4	2204.1	2146.6	2194.4	2342.3	2797.0	2352.6
37.5°	2788.6	2791.3	2803.3	2739.5	2617.2	2402.7	2278.0	2310.5	2429.4	2941.6	2454.4
40°	3062.2	3061.7	3065.6	2982.0	2864.2	2645.7	2461.8	2472.1	2575.1	3133.3	2609.2
42.5°	3559.0	3524.3	3419.0	3248.3	3130.0	2923.3	2693.5	2682.7	2753.3	3370.6	2826.1
45°	4226.5	4152.6	3879.5	3552.2	3400.8	3236.4	2978.6	2943.9	2988.8	3655.9	3093.5
47.5°	4800.8	4724.0	4337.6	3868.7	3688.3	3533.5	3312.6	3250.0	3264.7	3975.1	3432.7
50°	4996.0	4958.4	4620.9	4144.1	3966.5	3907.3	3700.2	3623.9	3602.9	4344.3	3825.9
52.5°	4928.2	4925.4	4700.7	4322.8	4221.4	4294.3	4187.9	4099.6	4022.3	4733.6	4226.0
55°	4819.5	4833.7	4733.1	4479.3	4475.8	4647.7	4854.8	4781.4	4557.2	5156.5	4570.9
57.5°	4519.6	4580.5	4714.9	4775.1	4915.1	5091.1	5410.3	5453.5	5188.2	5480.2	4857.1
60°	3667.2	3800.9	4240.3	4817.9	5481.4	5919.5	6080.6	6117.7	5706.2	5749.4	5243.6
62.5°	2603.0	2739.5	3296.7	4273.7	5489.9	7008.2	7079.4	6934.2	6276.4	6148.3	5910.0
65°	1381.7	1487.0	1942.3	3085.1	4759.8	7261.0	8825.9	8393.4	7282.5	6933.1	6770.9
67.5°	706.8	738.7	919.6	1509.8	3272.2	6449.5	10391.4	10695.9	9016.5	7711.6	6729.4
69°	625.4	644.2	764.3	1091.5	2095.4	5462.6	10467.7	11486.3	9924.2	7646.7	6115.3
70°	605.6	622.0	731.3	987.9	1637.8	4581.1	10175.8	11416.9	10156.4	7399.8	5656.7
72.5°	513.8	528.2	651.0	873.0	1331.1	2274.0	8265.9	9674.4	9113.9	6164.3	4094.6
75°	343.7	390.4	624.9	818.4	1238.4	1291.8	5449.6	6991.2	6494.4	4157.8	2133.0
77.5°	82.5	88.8	176.5	651.0	1132.5	1137.1	2802.7	4346.2	3544.8	1481.9	504.2
80°	44.4	42.7	49.5	129.2	1054.5	1067.0	1261.6	2109.6	1265.7	245.9	166.2
82.5°	31.2	29.6	31.9	54.1	331.8	972.0	912.9	954.9	524.7	94.5	74.6
85°	11.4	10.8	17.6	48.9	104.2	558.9	937.9	787.6	425.1	43.2	54.6
87.5°	4.0	3.4	6.9	26.8	31.9	237.8	578.7	595.3	167.2	26.2	25.5
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°	2619.5	2619.5	2619.5	2619.5	2619.5	2619.5	2619.5	2619.5	2619.5	2619.5	2619.5
2.5°	2596.1	2560.8	2496.0	2429.4	2367.9	2294.0	2257.0	2220.5	2205.2	2199.5	2172.7
5°	2521.0	2461.3	2323.6	2185.3	2057.8	1922.3	1833.1	1761.3	1719.2	1698.8	1666.3
7.5°	2424.9	2327.0	2118.1	1904.7	1706.1	1510.3	1365.2	1253.6	1176.8	1139.9	1106.2
10°	2331.5	2201.2	1904.2	1613.3	1343.6	1084.1	883.8	738.7	645.9	603.2	575.9
12.5°	2247.9	2078.8	1697.6	1329.3	990.8	686.9	483.2	367.6	310.2	290.2	280.6
15°	2173.2	1966.2	1502.5	1059.6	671.0	392.7	264.1	224.7	215.7	215.7	214.5
17.5°	2102.8	1855.8	1314.1	806.5	421.0	240.2	200.9	195.8	195.8	198.1	198.1
20°	2035.1	1750.6	1131.9	578.7	265.2	190.6	181.6	180.4	181.6	184.4	184.4
22.5°	1977.0	1654.8	961.7	397.2	196.8	171.9	167.2	165.6	166.2	167.9	169.1
25°	1933.8	1574.1	801.3	269.3	169.6	156.5	151.4	148.5	146.3	146.3	147.4
27.5°	1906.5	1505.8	645.9	195.8	152.5	142.2	134.3	129.8	124.7	121.9	122.9
30°	1886.5	1440.9	500.2	159.9	136.6	126.3	116.2	108.7	101.3	97.9	99.0
32.5°	1879.2	1388.5	373.8	141.2	122.4	111.0	98.5	88.8	80.9	78.0	78.5
35°	1899.0	1347.0	273.7	127.5	111.0	96.7	82.5	71.7	65.4	63.7	64.4
37.5°	1951.4	1324.9	204.9	116.2	100.7	84.7	68.9	58.6	54.6	54.6	55.1
40°	2050.4	1324.2	164.4	108.1	91.7	73.4	57.0	49.5	47.2	48.4	48.9
42.5°	2194.9	1354.4	143.4	100.7	83.7	62.6	47.2	42.1	41.5	42.7	43.2
45°	2392.4	1409.7	131.9	94.5	75.2	52.3	39.9	36.4	36.4	38.1	38.7
47.5°	2634.2	1490.4	122.4	88.2	66.5	43.8	34.2	31.9	32.4	34.2	34.8
50°	2925.6	1592.4	112.6	81.4	60.3	36.4	29.6	27.9	28.4	30.7	31.2
52.5°	3257.4	1729.5	104.7	75.2	52.3	30.1	25.0	23.9	25.0	27.4	27.9
55°	3541.9	1852.4	95.0	70.0	42.1	25.0	20.5	20.5	21.7	24.5	25.0
57.5°	3815.7	1981.0	86.6	60.3	33.0	19.8	17.1	17.6	19.3	22.2	22.7
60°	4217.5	2199.0	76.3	50.7	25.0	16.0	14.2	14.7	17.1	19.8	20.5
62.5°	4899.8	2530.7	66.0	42.1	19.3	12.6	11.4	12.6	15.4	18.8	19.3
65°	5515.5	2665.6	54.1	35.3	14.7	9.8	9.8	11.4	14.7	18.2	18.8
67.5°	5172.5	2243.8	42.1	27.9	11.4	7.4	7.9	10.8	14.2	18.2	18.8
69°	4574.2	1834.7	35.8	22.2	9.8	6.9	7.4	10.8	14.2	17.6	18.2
70°	4108.2	1549.1	31.9	18.8	8.5	6.9	7.4	10.3	14.2	17.6	18.2
72.5°	2751.4	836.6	25.5	13.6	7.9	6.2	6.2	10.3	13.6	17.1	17.6
75°	1182.5	231.1	20.5	9.8	6.9	5.7	5.7	9.8	13.1	16.5	17.6
77.5°	216.3	58.6	16.5	8.5	6.9	5.7	5.1	9.1	12.6	16.0	16.5
80°	85.9	29.1	13.1	7.4	6.2	5.1	4.6	8.5	11.9	15.4	16.0
82.5°	51.8	16.5	10.8	6.9	6.2	4.6	4.0	7.4	11.4	14.7	15.4
85°	42.1	11.4	8.5	6.9	5.7	4.6	3.4	6.9	10.3	14.2	14.7
87.5°	20.5	7.9	7.9	6.2	5.7	4.6	3.4	6.2	9.8	13.6	14.2
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)