

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: P192781

Luminaire Tested: **GAN-AF-03-LED-U-SL2-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192781
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-SL2-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA 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: 11761.8 lumens
Efficiency: N/A
Efficacy: 94.9 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): 124
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

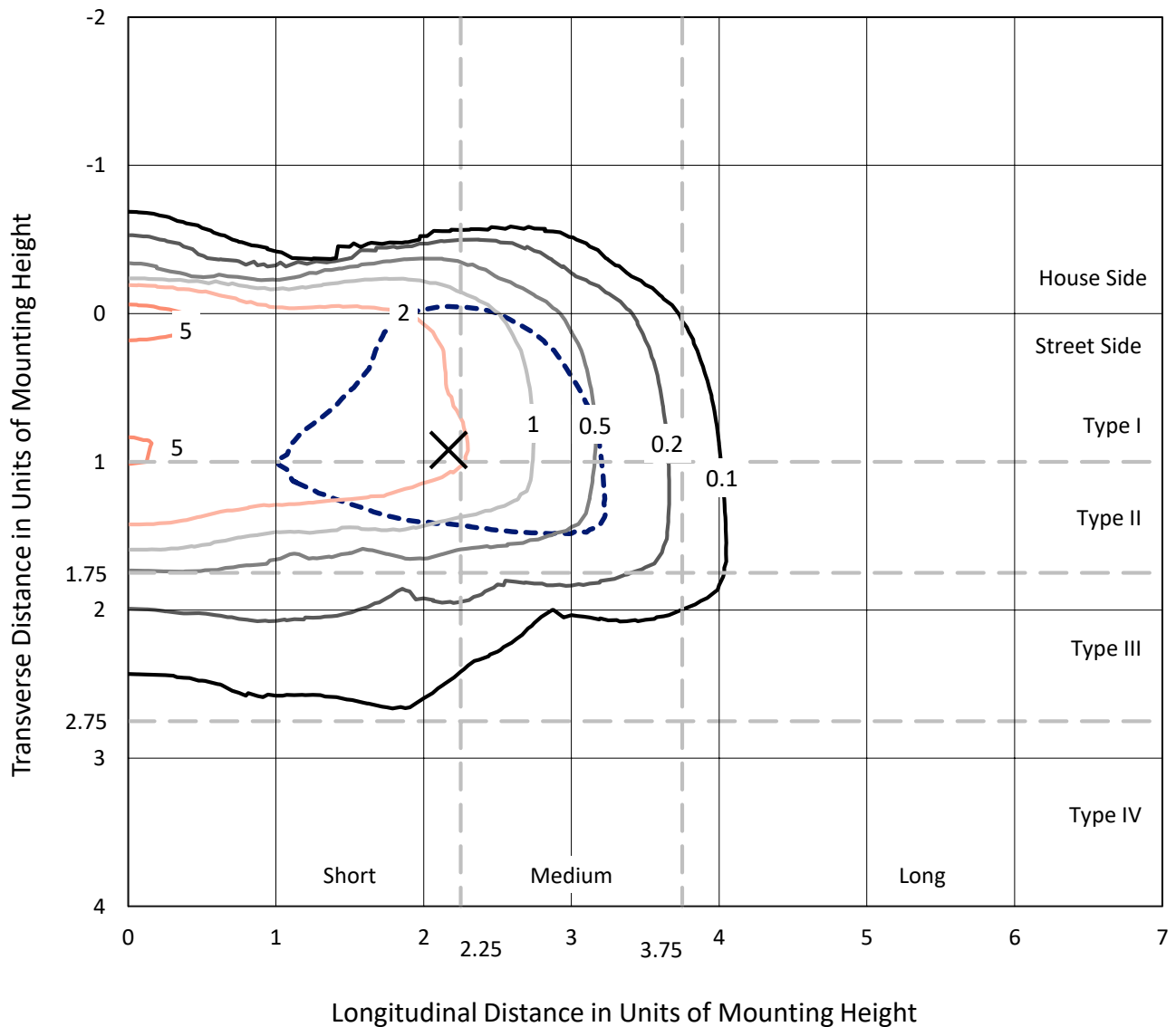


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

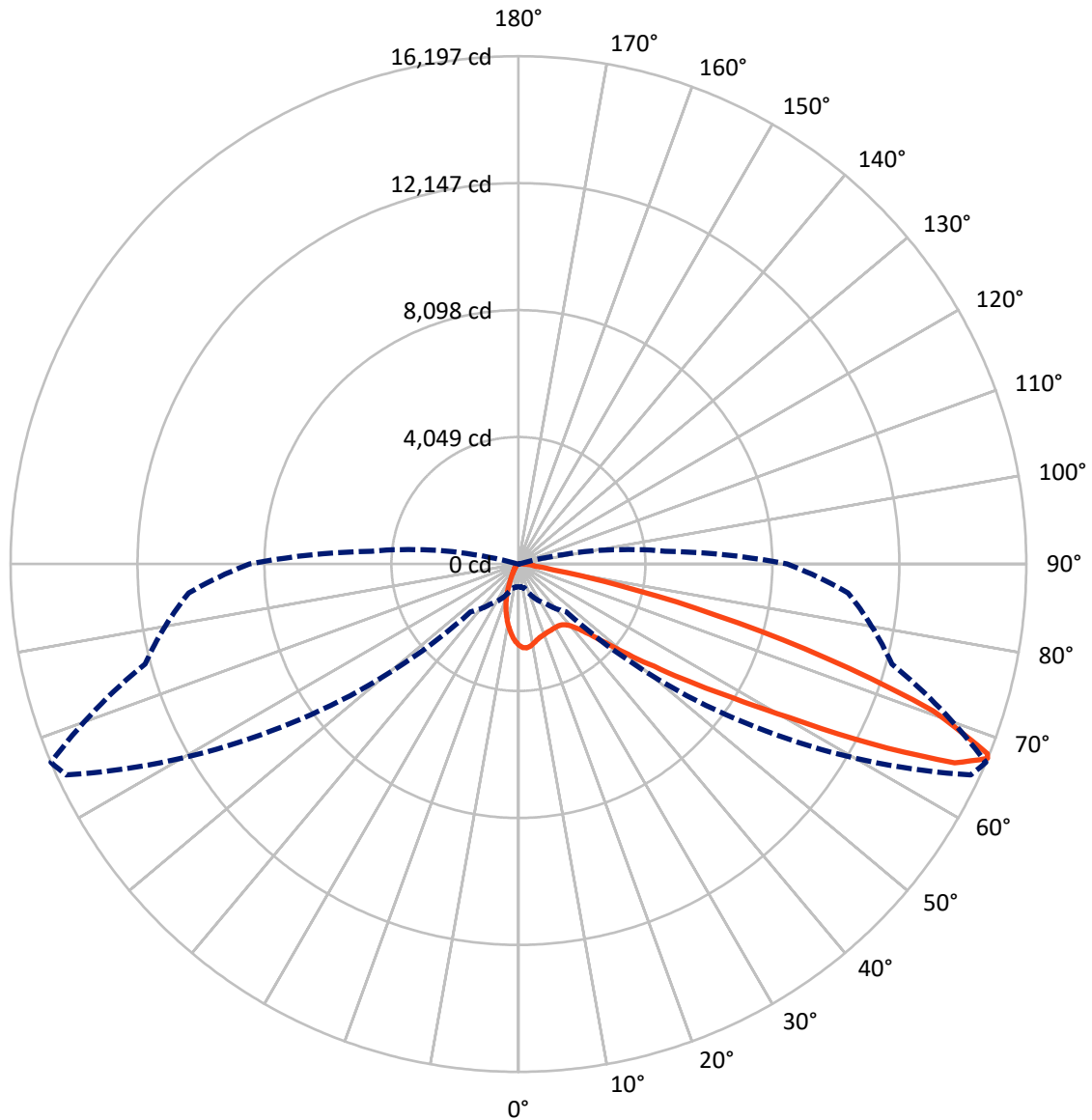


Based on 20 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - Semi-Cutoff

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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	1221.2	0.0	1221.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	10540.5	0.0	10540.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	11761.8	0.0	11761.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	1.8
10°-20°	449.2	3.8
20°-30°	653.1	5.6
30°-40°	1018.9	8.7
40°-50°	1804.9	15.3
50°-60°	2856.1	24.3
60°-70°	3271.3	27.8
70°-80°	1356.9	11.5
80°-90°	140.2	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°	11761.8	100.0
0°-180°	11761.8	100.0

Coefficient of Utilization



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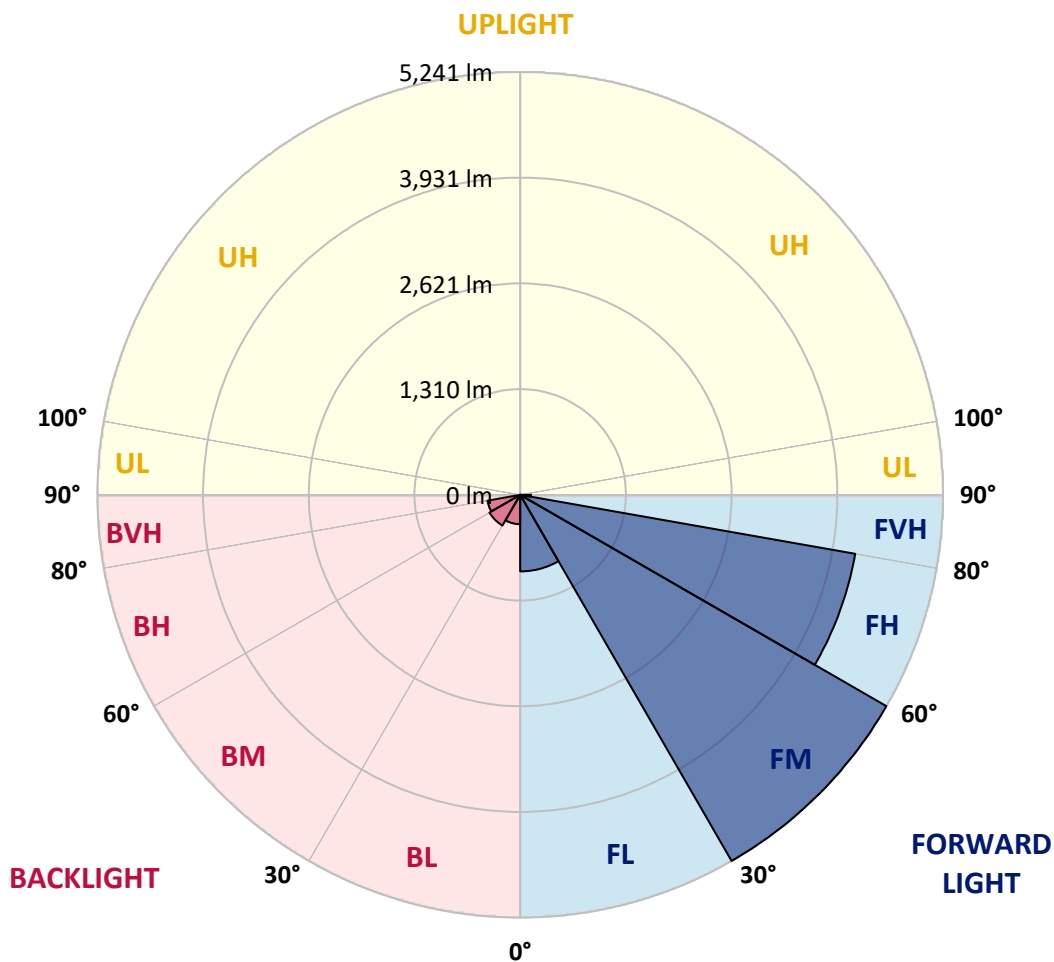
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	949.0	8.1			
FM (30°-60°)	5241.1	44.6			
FH (60°-80°)	4216.6	35.9			G2/5000
FVH (80°-90°)	133.8	1.1			G2/225
BL (0°-30°)	364.4	3.1	B1/500		
BM (30°-60°)	438.9	3.7	B1/1000		
BH (60°-80°)	411.6	3.5	B1/500		G1/500
BVH (80°-90°)	6.3	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°	2594.0	2594.0	2594.0	2594.0	2594.0	2594.0	2594.0	2594.0	2594.0	2594.0	2594.0
2.5°	2681.8	2687.2	2686.4	2690.6	2700.3	2700.9	2691.3	2672.8	2668.6	2644.6	2602.8
5°	2473.2	2488.9	2498.5	2537.6	2581.6	2634.3	2674.1	2688.6	2686.4	2669.3	2606.3
7.5°	2235.1	2250.8	2261.8	2307.8	2366.1	2456.7	2560.3	2645.3	2653.0	2671.4	2603.5
10°	2076.6	2079.4	2094.5	2138.4	2199.4	2292.0	2415.5	2564.5	2587.0	2655.0	2596.6
12.5°	1946.2	1948.3	1968.2	2015.7	2080.8	2174.0	2303.7	2476.0	2510.9	2634.3	2595.2
15°	1853.7	1861.2	1879.0	1928.4	1997.7	2090.3	2223.4	2410.7	2452.6	2626.8	2607.6
17.5°	1822.8	1831.0	1836.5	1872.1	1935.3	2025.8	2162.3	2368.2	2415.5	2631.0	2631.6
20°	1855.0	1861.2	1848.8	1857.7	1896.8	1977.8	2110.9	2331.8	2388.1	2635.8	2662.5
22.5°	1975.1	1977.8	1944.3	1905.2	1898.3	1942.8	2070.5	2303.0	2363.4	2648.8	2698.8
25°	2181.0	2176.1	2121.3	2036.8	1957.3	1936.7	2046.4	2285.1	2351.0	2662.5	2736.6
27.5°	2429.3	2436.2	2360.6	2237.8	2086.2	1977.8	2043.0	2277.6	2345.6	2672.2	2769.5
30°	2731.2	2740.8	2654.2	2500.0	2282.4	2079.4	2074.7	2276.3	2342.1	2665.9	2772.2
32.5°	3039.1	3050.8	2982.9	2823.7	2544.5	2249.5	2146.0	2291.3	2349.0	2644.6	2756.5
35°	3361.6	3378.1	3332.7	3196.3	2899.8	2495.2	2271.5	2337.3	2381.2	2642.7	2740.8
37.5°	3806.8	3821.9	3736.8	3592.1	3330.0	2824.5	2473.2	2423.8	2457.3	2675.5	2744.8
40°	4471.6	4469.6	4249.9	4028.4	3802.7	3243.0	2756.5	2580.1	2597.3	2774.9	2795.6
42.5°	5196.1	5192.6	4868.1	4531.3	4327.5	3758.1	3128.9	2850.5	2838.8	2958.2	2927.3
45°	5754.4	5753.8	5488.9	5109.6	4959.4	4349.5	3610.6	3226.4	3208.6	3255.9	3170.1
47.5°	5992.6	5996.7	5863.5	5596.7	5659.8	5149.4	4217.7	3771.2	3744.5	3725.2	3594.8
50°	5807.3	5815.6	5826.5	5774.4	6173.5	6224.4	5032.1	4538.8	4525.7	4440.1	4236.3
52.5°	5202.2	5244.0	5373.1	5538.4	6352.0	7256.2	6308.7	5492.4	5422.4	5331.2	5106.9
55°	4182.8	4228.8	4473.6	4874.9	6086.5	7934.0	8098.0	6721.7	6605.2	6332.7	6009.0
57.5°	2768.2	2839.5	3194.8	3705.3	5315.4	8043.1	9883.0	8427.9	8021.9	7276.1	6911.0
60°	1525.0	1593.6	1979.2	2441.6	3839.1	7503.8	11083.6	10649.4	9931.7	8330.6	8006.7
62.5°	939.2	976.2	1261.0	1691.2	2302.3	5922.5	11332.0	13440.8	12610.0	9688.2	9330.0
65°	747.8	763.5	902.8	1382.3	1650.6	3522.8	10530.0	15568.9	15291.7	11332.0	10514.9
67°	725.8	732.0	797.8	1186.9	1556.0	2159.6	8821.7	15915.4	16196.6	12326.7	10551.9
67.5°	730.6	737.5	799.9	1132.7	1553.2	1984.7	8233.1	15778.7	16134.2	12405.7	10388.0
70°	704.6	725.8	915.8	1131.9	1477.0	1649.3	4930.6	13671.3	14041.1	11526.8	8814.2
72.5°	249.7	251.1	395.8	915.8	1606.0	1667.1	2476.0	10022.4	10296.0	8817.7	6354.7
75°	148.1	126.2	131.7	260.7	1534.6	1619.0	1428.3	6404.1	6506.4	5052.7	3218.2
77.5°	102.2	89.1	91.9	115.3	584.5	1596.4	1134.6	3339.6	3230.6	1772.0	685.4
80°	58.4	51.5	54.8	100.8	212.6	1489.4	1070.2	1354.3	1154.7	300.5	189.3
82.5°	30.9	26.1	31.5	83.0	148.1	928.1	1072.3	654.5	518.7	101.5	128.9
85°	10.9	9.0	15.1	57.0	98.8	284.7	994.0	550.2	432.2	49.3	98.2
87.5°	2.0	2.0	6.2	23.3	39.8	87.1	588.0	326.5	218.8	29.5	67.2
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°	2594.0	2594.0	2594.0	2594.0	2594.0	2594.0	2594.0	2594.0	2594.0	2594.0	2594.0
2.5°	2585.6	2556.1	2516.3	2467.6	2410.0	2359.2	2321.5	2282.4	2274.2	2260.5	2258.4
5°	2568.4	2517.8	2419.0	2305.8	2185.0	2075.9	1987.4	1908.5	1873.6	1843.4	1839.9
7.5°	2543.1	2467.0	2299.0	2116.5	1927.8	1756.3	1610.8	1507.9	1413.3	1367.9	1361.1
10°	2513.6	2404.6	2163.8	1910.6	1650.0	1407.7	1191.7	1010.5	900.8	835.7	827.3
12.5°	2486.2	2343.5	2025.8	1697.3	1350.8	1027.0	749.2	576.3	461.0	414.4	408.8
15°	2473.2	2294.1	1896.8	1479.1	1038.0	653.8	409.6	317.0	279.2	268.2	267.5
17.5°	2471.8	2252.3	1770.6	1253.4	727.2	380.1	266.9	243.5	236.0	233.3	233.3
20°	2471.1	2212.5	1644.5	1019.5	461.7	253.2	222.3	216.8	211.3	207.9	207.9
22.5°	2478.6	2176.8	1512.7	780.6	290.8	205.1	195.6	190.0	183.1	178.4	177.6
25°	2486.2	2149.3	1378.2	555.7	210.7	178.4	168.8	161.2	151.7	145.5	144.8
27.5°	2487.7	2115.0	1234.2	371.8	176.4	155.7	143.3	131.7	120.7	114.6	113.8
30°	2467.0	2057.5	1074.3	251.1	155.7	135.2	118.6	106.3	96.0	91.2	91.2
32.5°	2426.5	1986.2	898.6	189.3	138.5	116.0	98.2	86.5	79.5	77.6	76.8
35°	2390.1	1909.2	718.3	160.5	124.1	98.2	80.3	72.7	68.7	68.0	67.2
37.5°	2368.8	1847.5	548.8	145.5	110.5	82.3	68.0	62.4	60.4	59.0	59.6
40°	2385.3	1796.0	405.5	133.1	96.7	68.7	57.6	54.8	52.8	52.1	52.1
42.5°	2457.3	1787.2	301.1	122.2	83.7	57.0	50.0	48.1	46.7	46.0	46.7
45°	2646.7	1842.0	234.0	111.8	70.7	48.1	42.5	41.8	41.2	41.2	41.2
47.5°	2931.4	1955.2	194.8	100.2	59.0	41.2	37.0	36.4	35.7	36.4	36.4
50°	3413.7	2162.3	174.3	88.5	48.7	35.0	31.5	31.5	31.5	31.5	32.2
52.5°	4147.1	2569.9	160.5	76.8	39.8	29.5	26.8	26.8	27.5	27.5	28.1
55°	4964.2	3110.5	148.1	65.2	33.7	24.7	22.0	22.6	23.3	24.0	24.0
57.5°	5850.5	3709.4	137.8	53.5	28.9	19.8	18.6	19.2	19.8	21.3	21.3
60°	6920.1	4357.7	122.8	41.8	24.0	15.8	14.4	15.8	17.8	19.2	19.8
62.5°	8094.6	4984.7	103.6	32.9	19.8	12.3	11.7	14.4	17.2	18.6	19.2
65°	8897.2	5181.6	79.5	26.8	15.1	9.0	9.7	13.0	16.5	18.6	18.6
67°	8572.1	4697.9	65.2	22.6	12.3	6.9	9.0	13.0	16.5	17.8	18.6
67.5°	8346.4	4508.6	62.4	22.0	11.7	6.9	9.0	13.0	16.5	18.6	18.6
70°	6791.1	3386.9	52.1	16.5	9.7	6.2	7.5	12.3	15.8	17.8	17.8
72.5°	4718.6	2088.3	46.7	11.7	8.2	5.5	6.9	11.7	15.1	17.2	17.8
75°	2243.3	756.0	39.8	9.0	7.5	4.8	6.2	11.7	15.1	17.2	17.2
77.5°	457.6	175.6	32.2	7.5	6.2	4.8	5.5	10.9	14.4	16.5	16.5
80°	150.2	68.0	24.0	6.9	6.2	4.8	5.5	10.3	14.4	15.8	16.5
82.5°	108.3	34.3	15.8	6.9	6.2	4.8	4.8	10.3	13.7	15.8	15.8
85°	83.0	24.0	10.3	6.9	6.2	4.8	4.8	9.7	13.0	15.1	15.1
87.5°	54.8	9.7	8.2	6.9	6.2	4.8	4.8	9.7	12.3	14.4	15.1
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)