

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: P299995

Luminaire Tested: **GAA-AF-05-LED-U-SL3-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194479)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-05-LED-U-SL3-8030-600-HSS
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(5) 80 CRI
3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III w/Spill
Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12411.7 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 162
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

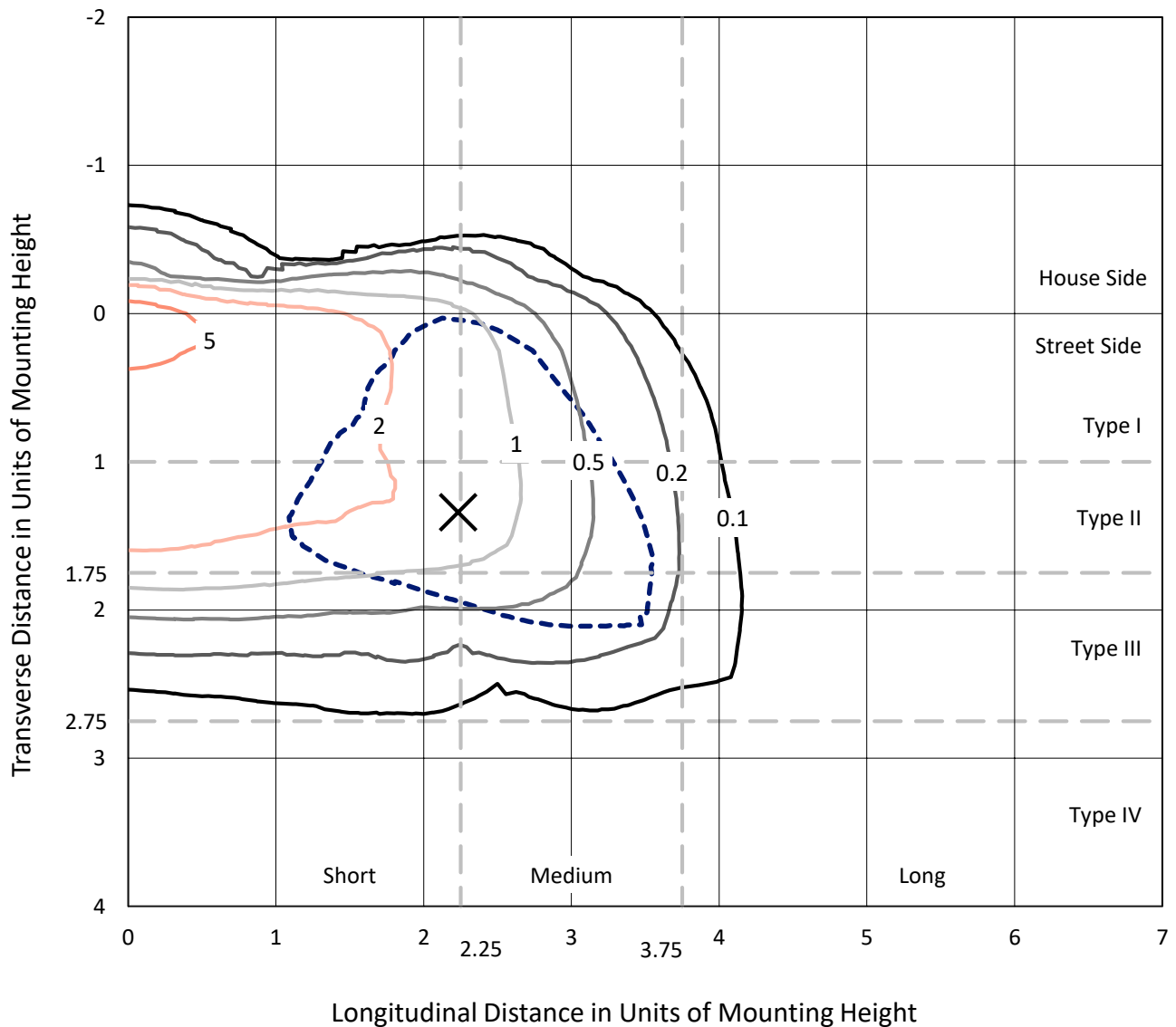


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

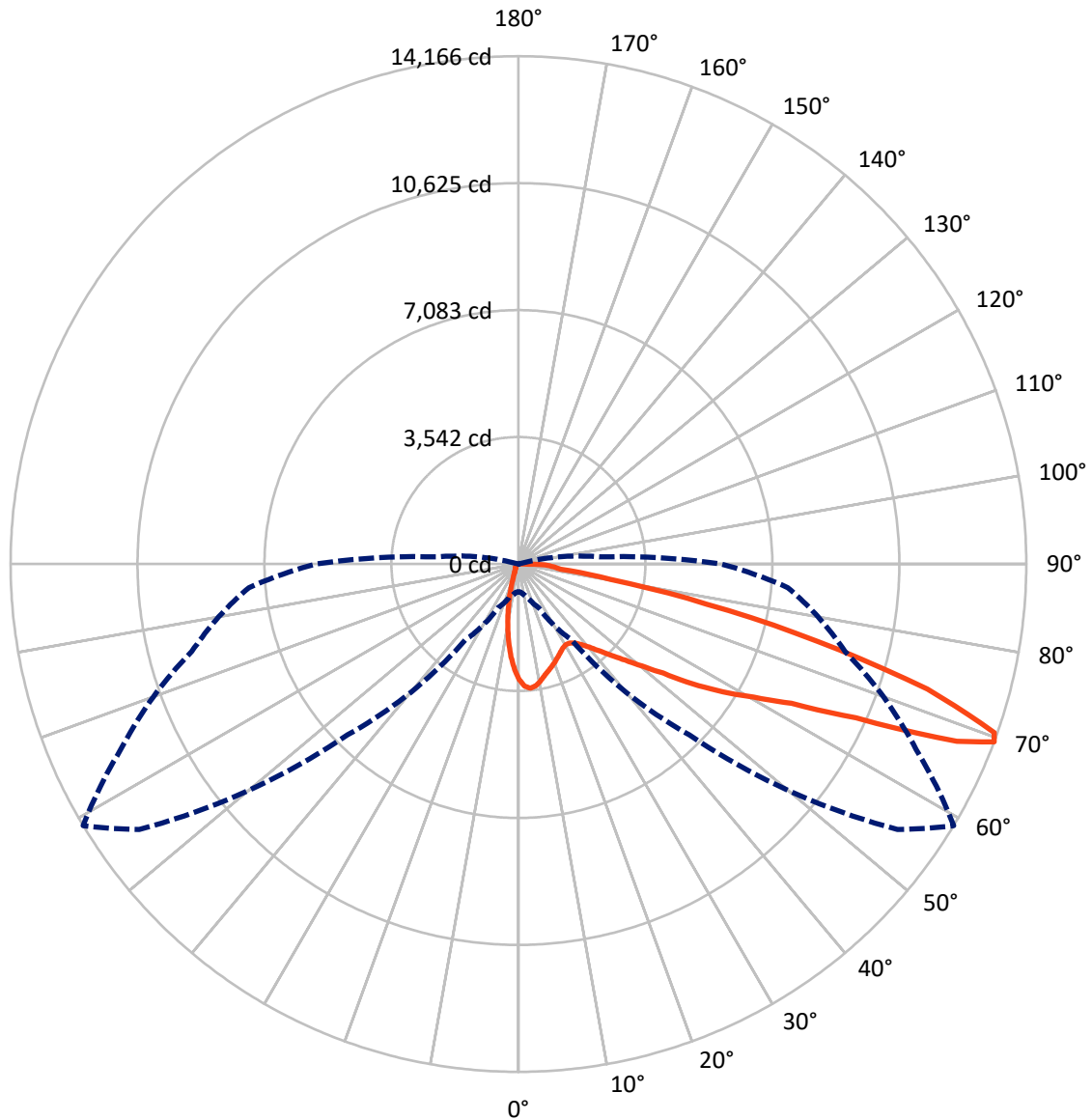


Based on 20 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - Non-Cutoff

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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	1010.7	0.0	1010.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	11401.0	0.0	11401.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	12411.7	0.0	12411.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.2	2.1
10°-20°	541.8	4.4
20°-30°	729.1	5.9
30°-40°	1058.6	8.5
40°-50°	1762.7	14.2
50°-60°	2749.8	22.2
60°-70°	3402.6	27.4
70°-80°	1724.4	13.9
80°-90°	180.4	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°	12411.7	100.0
0°-180°	12411.7	100.0

Coefficient of Utilization



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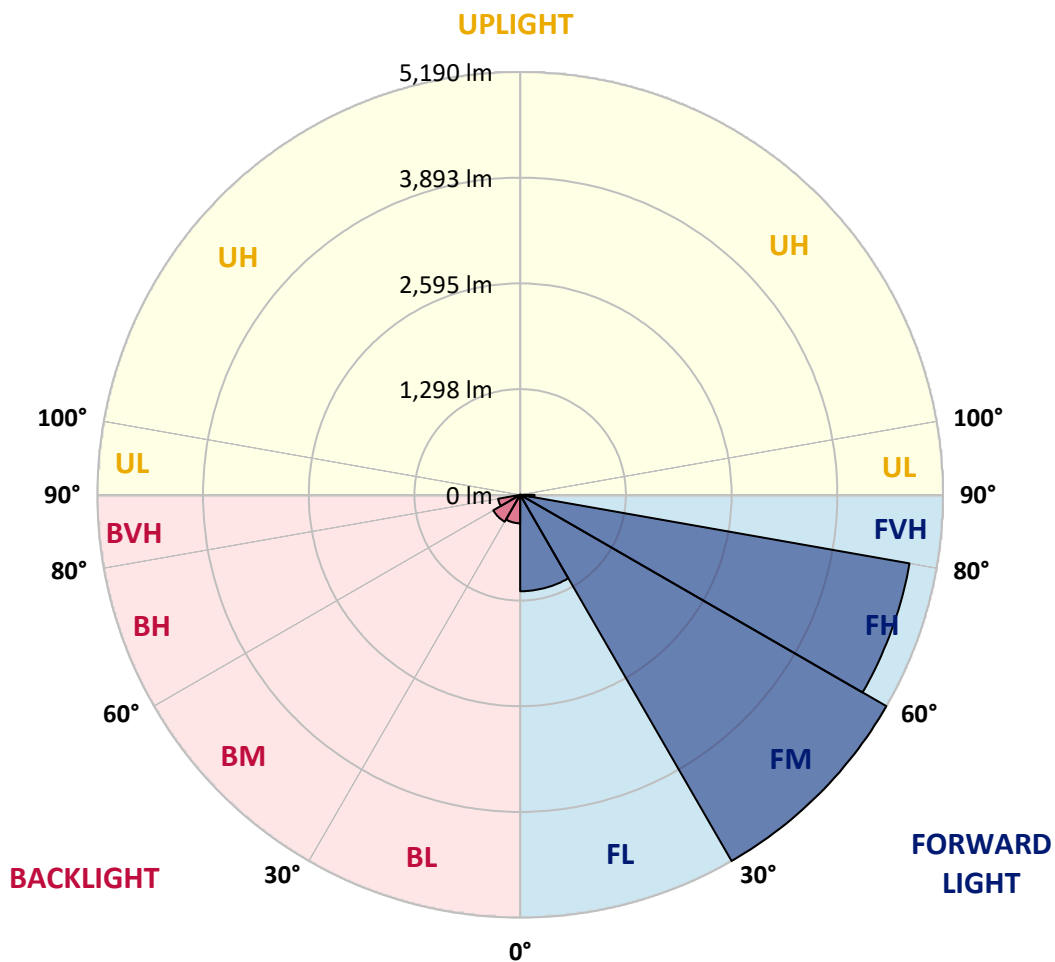
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1183.3	9.5			
FM	(30°-60°)	5190.2	41.8			
FH	(60°-80°)	4852.5	39.1			G2/5000
FVH	(80°-90°)	174.9	1.4			G2/225
BL	(0°-30°)	349.9	2.8	B1/500		
BM	(30°-60°)	380.8	3.1	B1/1000		
BH	(60°-80°)	274.5	2.2	B1/500		G1/500
BVH	(80°-90°)	5.5	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°	3230.5	3230.5	3230.5	3230.5	3230.5	3230.5	3230.5	3230.5	3230.5	3230.5	3230.5
2.5°	3540.8	3539.5	3524.0	3517.0	3504.2	3477.7	3436.2	3414.6	3379.5	3318.3	3236.3
5°	3508.5	3525.5	3534.4	3535.3	3544.4	3534.4	3497.2	3479.2	3430.7	3332.3	3185.1
7.5°	3289.6	3295.8	3321.9	3344.2	3387.8	3429.2	3442.6	3434.7	3406.1	3300.9	3105.0
10°	3055.2	3061.4	3092.4	3121.7	3180.8	3244.6	3311.9	3326.2	3338.1	3255.8	3027.8
12.5°	2852.9	2859.3	2891.0	2929.4	2998.3	3076.9	3181.5	3204.6	3257.3	3213.1	2966.0
15°	2678.9	2681.7	2712.7	2760.3	2842.5	2943.5	3062.2	3099.4	3180.2	3182.9	2912.0
17.5°	2530.8	2537.8	2556.9	2602.4	2692.3	2817.2	2955.6	3008.9	3103.5	3157.7	2859.3
20°	2440.3	2447.3	2446.6	2471.9	2552.7	2685.9	2848.9	2912.6	3027.8	3131.7	2812.4
22.5°	2422.9	2422.9	2404.6	2401.0	2448.8	2560.3	2738.0	2815.8	2959.6	3120.5	2779.4
25°	2485.3	2482.3	2436.9	2399.7	2401.8	2468.3	2630.5	2723.1	2902.2	3128.1	2761.8
27.5°	2617.3	2613.7	2556.1	2485.3	2428.4	2427.7	2549.1	2648.7	2856.5	3164.7	2768.8
30°	2799.6	2798.3	2735.9	2646.6	2543.5	2448.8	2521.0	2611.5	2827.0	3230.5	2784.9
32.5°	2998.9	2996.8	2949.8	2855.9	2725.2	2543.5	2550.6	2626.4	2835.5	3318.3	2824.3
35°	3210.4	3206.7	3186.3	3104.3	2960.5	2718.2	2647.5	2706.3	2888.8	3449.6	2901.4
37.5°	3439.0	3442.6	3457.3	3378.6	3227.8	2963.2	2809.6	2849.5	2996.2	3627.9	3027.0
40°	3776.6	3776.0	3780.9	3677.6	3532.5	3262.8	3036.1	3048.9	3175.9	3864.4	3218.0
42.5°	4389.3	4346.6	4216.7	4006.1	3860.2	3605.4	3321.9	3308.5	3395.6	4157.0	3485.3
45°	5212.7	5121.3	4784.5	4381.0	4194.2	3991.5	3673.4	3630.7	3686.1	4508.7	3815.3
47.5°	5920.7	5825.9	5349.5	4771.1	4548.6	4357.8	4085.4	4008.3	4026.5	4902.4	4233.5
50°	6161.5	6115.1	5699.1	5110.9	4891.8	4818.9	4563.5	4469.4	4443.5	5357.8	4718.4
52.5°	6077.9	6074.5	5797.2	5331.2	5206.3	5296.2	5164.9	5056.1	4960.7	5838.0	5211.8
55°	5943.9	5961.5	5837.2	5524.2	5519.9	5732.0	5987.4	5896.9	5620.5	6359.5	5637.2
57.5°	5574.1	5649.1	5814.9	5889.3	6061.8	6278.8	6672.5	6725.8	6398.8	6758.8	5990.2
60°	4522.7	4687.6	5229.5	5941.7	6760.3	7300.6	7499.3	7544.8	7037.4	7090.7	6466.8
62.5°	3210.4	3378.6	4065.8	5270.9	6770.7	8643.2	8730.9	8552.0	7740.7	7582.8	7288.7
65°	1704.0	1834.0	2395.4	3804.7	5870.3	8954.9	10885.0	10351.6	8981.5	8550.5	8350.6
67.5°	871.6	911.0	1134.3	1862.1	4035.7	7954.1	12815.7	13191.2	11120.0	9510.8	8299.4
69°	771.4	794.5	942.6	1346.1	2584.1	6737.1	12909.8	14166.1	12239.6	9430.7	7542.0
70°	746.7	767.1	901.8	1218.4	2020.0	5649.8	12549.6	14080.5	12525.9	9126.2	6976.4
72.5°	633.9	651.3	803.0	1076.7	1641.7	2804.5	10194.4	11931.5	11240.1	7602.4	5049.7
75°	423.9	481.5	770.7	1009.3	1527.2	1593.3	6721.0	8622.1	8009.5	5127.7	2630.5
77.5°	101.8	109.4	217.6	803.0	1396.7	1402.2	3456.6	5359.9	4371.8	1827.7	621.8
80°	54.8	52.7	61.0	159.4	1300.5	1316.0	1556.1	2601.8	1561.0	303.2	204.8
82.5°	38.7	36.5	39.3	66.7	409.3	1198.7	1125.8	1177.6	647.0	116.4	92.0
85°	14.0	13.4	21.7	60.3	128.3	689.1	1156.6	971.3	524.2	53.3	67.4
87.5°	4.9	4.2	8.5	32.9	39.3	293.5	713.8	734.2	206.3	32.3	31.7
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°	3230.5	3230.5	3230.5	3230.5	3230.5	3230.5	3230.5	3230.5	3230.5	3230.5	3230.5
2.5°	3201.9	3158.3	3078.4	2996.2	2920.3	2829.1	2783.5	2738.6	2719.7	2712.7	2679.8
5°	3109.2	3035.5	2865.7	2695.1	2537.8	2370.8	2260.7	2172.3	2120.3	2095.0	2055.0
7.5°	2990.6	2869.9	2612.2	2349.1	2104.1	1862.7	1683.8	1546.1	1451.3	1405.9	1364.4
10°	2875.5	2714.8	2348.5	1989.8	1657.0	1337.0	1089.9	911.0	796.6	743.9	710.4
12.5°	2772.4	2563.9	2093.7	1639.6	1221.8	847.2	595.8	453.5	382.5	357.8	345.9
15°	2680.4	2425.0	1852.9	1306.8	827.4	484.3	325.8	277.3	266.0	266.0	264.6
17.5°	2593.3	2288.8	1620.5	994.5	519.3	296.2	247.8	241.4	241.4	244.2	244.2
20°	2509.8	2158.9	1395.9	713.8	327.0	235.0	224.0	222.5	224.0	227.4	227.4
22.5°	2438.1	2041.0	1186.1	489.8	242.9	211.9	206.3	204.2	204.8	207.0	208.5
25°	2384.8	1941.3	988.3	331.9	209.1	192.9	186.8	183.2	180.4	180.4	181.7
27.5°	2351.2	1857.2	796.6	241.4	188.1	175.5	165.5	160.0	153.6	150.2	151.5
30°	2326.6	1777.1	616.9	197.2	168.5	155.8	143.2	134.1	124.9	120.7	122.2
32.5°	2317.5	1712.5	461.1	174.0	150.9	136.8	121.3	109.4	99.7	96.0	96.9
35°	2342.1	1661.3	337.7	157.2	136.8	119.2	101.8	88.4	80.7	78.6	79.3
37.5°	2406.7	1633.9	252.7	143.2	124.3	104.5	85.0	72.2	67.4	67.4	68.0
40°	2528.7	1633.2	202.9	133.4	113.0	90.5	70.1	61.0	58.2	59.7	60.3
42.5°	2707.0	1670.4	176.8	124.3	103.3	77.1	58.2	51.8	51.2	52.7	53.3
45°	2950.5	1738.4	162.8	116.4	92.6	64.6	49.1	44.8	44.8	47.0	47.8
47.5°	3248.8	1838.1	150.9	108.8	82.0	54.0	42.1	39.3	39.9	42.1	42.7
50°	3608.1	1963.9	139.0	100.3	74.4	44.8	36.5	34.4	35.1	37.8	38.7
52.5°	4017.4	2133.0	129.2	92.6	64.6	37.2	30.8	29.5	30.8	33.8	34.4
55°	4368.2	2284.5	117.3	86.3	51.8	30.8	25.3	25.3	26.8	30.2	30.8
57.5°	4705.9	2443.0	106.7	74.4	40.8	24.6	21.0	21.7	23.8	27.4	28.0
60°	5201.4	2711.8	94.1	62.5	30.8	19.5	17.6	18.3	21.0	24.6	25.3
62.5°	6042.9	3121.1	81.4	51.8	23.8	15.5	14.0	15.5	18.9	23.2	23.8
65°	6802.3	3287.5	66.7	43.6	18.3	11.9	11.9	14.0	18.3	22.5	23.2
67.5°	6379.1	2767.3	51.8	34.4	14.0	9.1	9.8	13.4	17.6	22.5	23.2
69°	5641.5	2262.8	44.2	27.4	11.9	8.5	9.1	13.4	17.6	21.7	22.5
70°	5066.7	1910.5	39.3	23.2	10.6	8.5	9.1	12.5	17.6	21.7	22.5
72.5°	3393.5	1031.7	31.7	16.8	9.8	7.6	7.6	12.5	16.8	21.0	21.7
75°	1458.3	285.0	25.3	11.9	8.5	7.0	7.0	11.9	16.1	20.4	21.7
77.5°	266.7	72.2	20.4	10.6	8.5	7.0	6.4	11.3	15.5	19.5	20.4
80°	106.0	35.7	16.1	9.1	7.6	6.4	5.5	10.6	14.7	18.9	19.5
82.5°	64.0	20.4	13.4	8.5	7.6	5.5	4.9	9.1	14.0	18.3	18.9
85°	51.8	14.0	10.6	8.5	7.0	5.5	4.2	8.5	12.5	17.6	18.3
87.5°	25.3	9.8	9.8	7.6	7.0	5.5	4.2	7.6	11.9	16.8	17.6
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)