

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: P300860

Luminaire Tested: **GAA-AF-04-LED-U-SL4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-04-LED-U-SL4-8030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18554.2 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

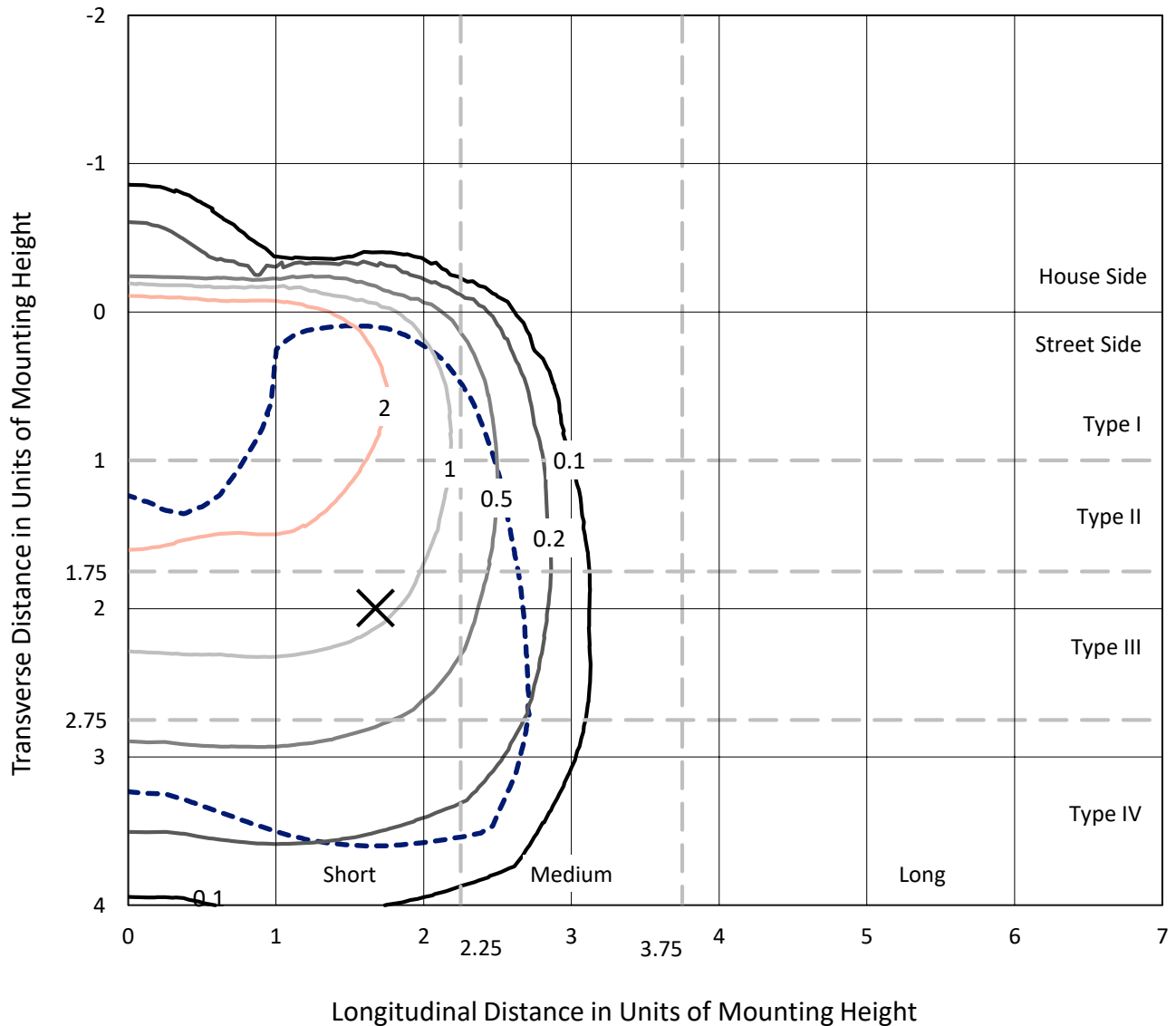
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P300860
 CATALOG NUMBER: GAA-AF-04-LED-U-SL4-8030

Iso-Footcandle Lines of Horizontal Illumination

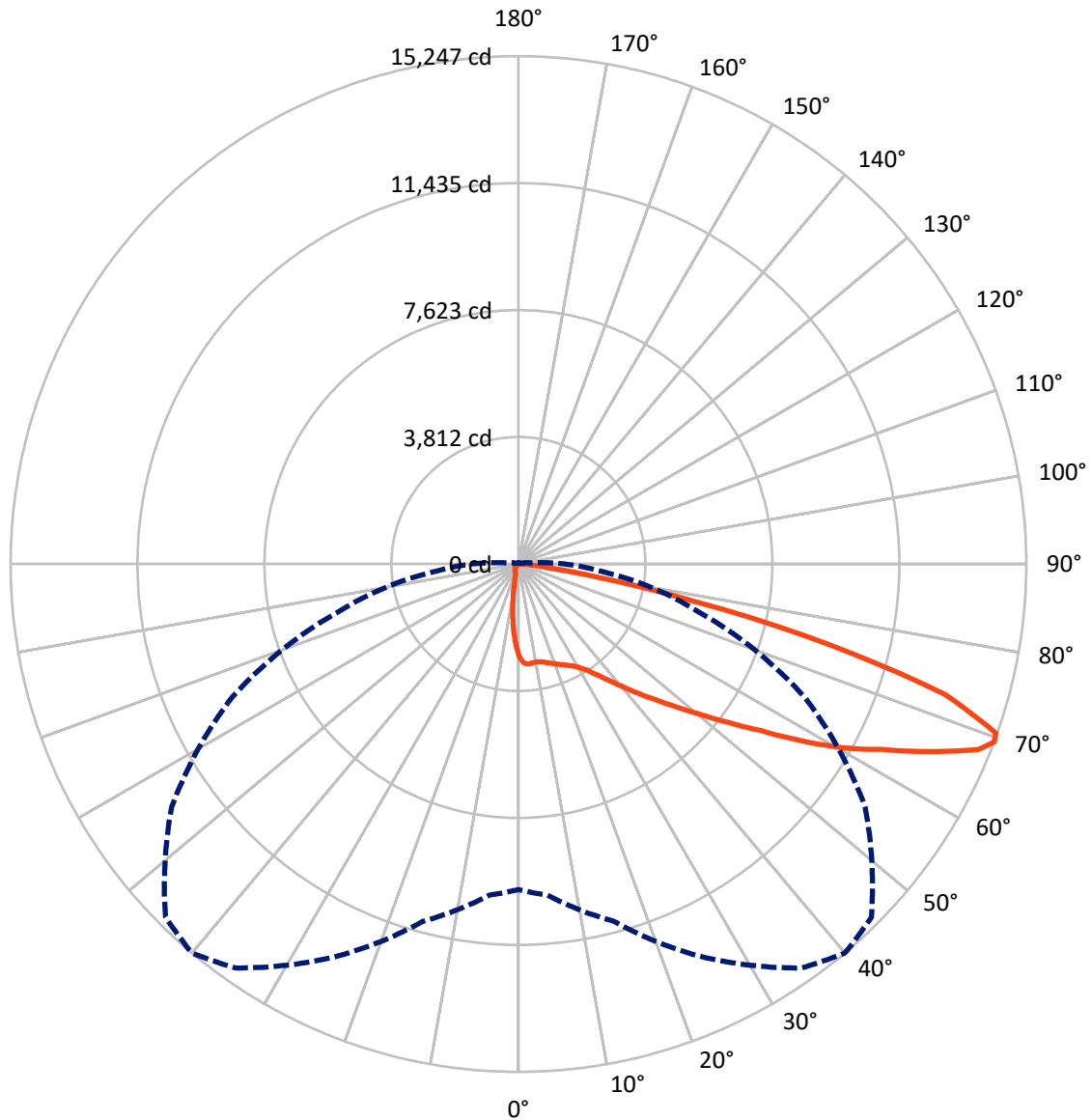
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P300860
CATALOG NUMBER: GAA-AF-04-LED-U-SL4-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1085.5	0.0	1085.5
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	17468.7	0.0	17468.7
	% Fixture	94.1	0.0	94.1
Total	Lumens	18554.2	0.0	18554.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	1.2
10°-20°	552.7	3.0
20°-30°	931.0	5.0
30°-40°	1524.1	8.2
40°-50°	2638.9	14.2
50°-60°	4156.5	22.4
60°-70°	5428.2	29.3
70°-80°	2795.8	15.1
80°-90°	302.4	1.6
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°	18554.2	100.0
0°-180°	18554.2	100.0



REPORT NUMBER: P300860

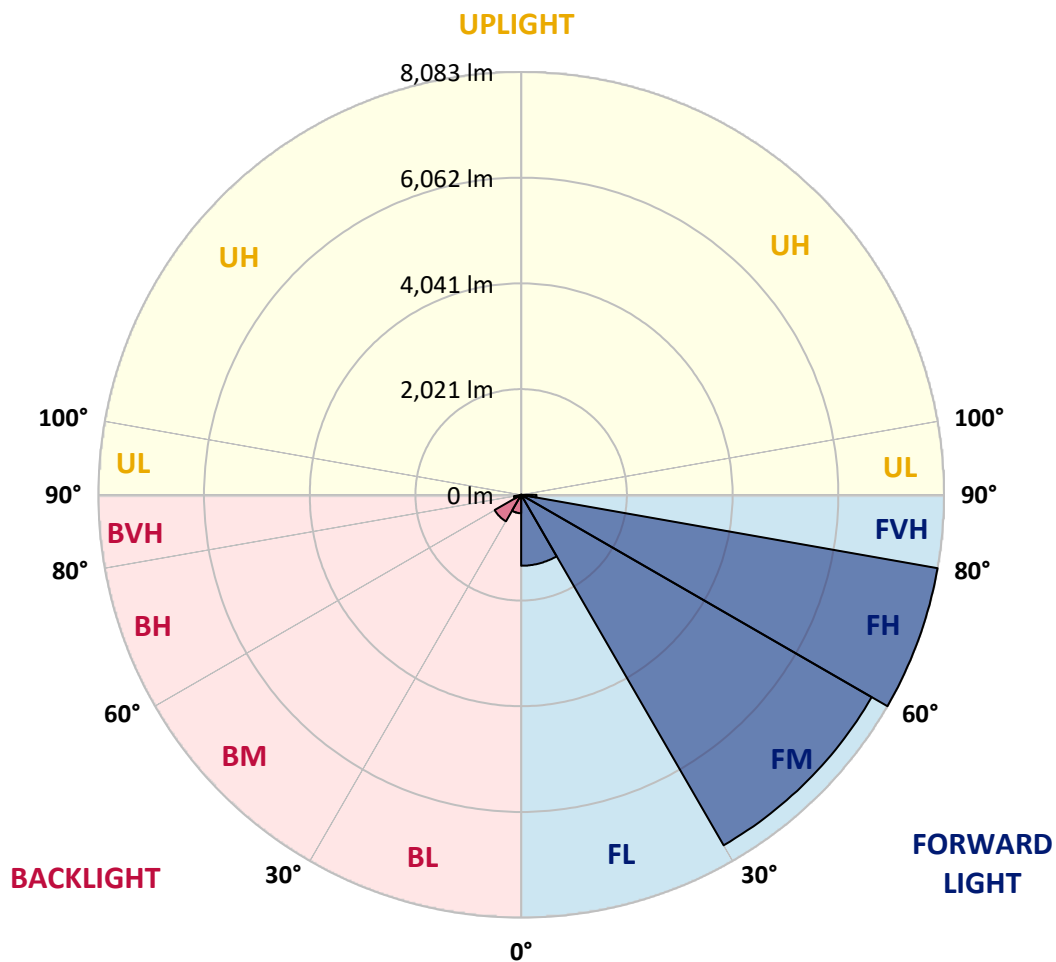
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1356.8	7.3			
FM	(30°-60°)	7735.9	41.7			
FH	(60°-80°)	8083.0	43.6			G4/12000
FVH	(80°-90°)	292.9	1.6			G3/500
BL	(0°-30°)	351.6	1.9	B1/500		
BM	(30°-60°)	583.4	3.1	B1/1000		
BH	(60°-80°)	141.0	0.8	B1/500		G1/500
BVH	(80°-90°)	9.5	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-G4

Type IV Short





REPORT NUMBER: P300860

CATALOG NUMBER: GAA-AF-04-LED-U-SL4-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1
2.5°	3043.8	3027.2	3017.3	3004.0	2987.5	2973.1	2967.6	2926.7	2888.1	2835.0	2774.3
5°	3100.1	3094.6	3076.9	3059.2	3039.4	3017.3	3005.1	2956.5	2901.3	2824.0	2718.0
7.5°	3105.6	3099.0	3076.9	3052.6	3025.0	2998.5	2977.5	2928.9	2878.1	2799.7	2670.5
10°	3096.8	3089.1	3072.5	3046.0	3011.8	2986.4	2965.4	2919.0	2875.9	2805.2	2661.7
12.5°	3086.9	3079.1	3071.4	3058.1	3028.3	3010.6	2993.0	2948.8	2910.1	2850.5	2693.7
15°	3096.8	3092.4	3101.2	3095.7	3079.1	3063.7	3046.0	3006.2	2970.9	2921.2	2752.2
17.5°	3138.8	3138.8	3166.4	3169.7	3154.2	3132.1	3106.7	3067.0	3037.2	2995.2	2821.8
20°	3237.1	3233.7	3269.1	3275.7	3238.2	3203.9	3166.4	3117.8	3094.6	3068.1	2890.3
22.5°	3406.0	3390.6	3411.6	3404.9	3330.9	3277.9	3231.5	3171.9	3159.7	3147.6	2966.5
25°	3625.8	3617.0	3631.3	3566.2	3435.8	3364.1	3308.8	3241.5	3241.5	3253.6	3052.6
27.5°	3945.0	3911.9	3863.3	3748.4	3552.9	3461.3	3401.6	3329.8	3348.6	3393.9	3166.4
30°	4271.9	4235.4	4123.9	3947.2	3695.4	3599.3	3529.7	3454.6	3498.8	3581.6	3318.8
32.5°	4594.4	4553.5	4395.6	4172.5	3899.7	3803.6	3736.3	3653.4	3727.4	3866.6	3541.9
35°	4906.9	4870.5	4688.3	4425.4	4171.4	4091.9	4030.0	3958.2	4053.2	4247.6	3856.6
37.5°	5258.1	5218.4	4996.4	4711.5	4501.6	4444.2	4398.9	4327.1	4492.8	4777.7	4295.1
40°	5690.0	5622.6	5323.3	5039.5	4883.7	4856.1	4825.2	4815.3	5072.6	5466.9	4879.3
42.5°	6184.7	6074.3	5665.7	5385.1	5303.4	5323.3	5315.6	5359.7	5798.2	6323.9	5590.6
45°	6679.5	6537.1	6046.7	5754.0	5765.1	5834.6	5877.7	6054.4	6707.1	7306.8	6355.9
47.5°	7099.2	6958.9	6412.3	6152.7	6285.3	6422.2	6539.3	6873.9	7641.5	8274.3	6951.2
50°	7458.1	7325.6	6799.9	6591.2	6889.4	7110.3	7300.2	7796.1	8646.5	9011.0	7368.7
52.5°	7751.9	7663.6	7201.9	7093.7	7579.6	7903.2	8181.5	8775.7	9536.7	9609.6	7693.4
55°	8038.0	7975.0	7633.7	7691.2	8390.3	8830.9	9183.2	9815.0	10303.1	10108.8	8004.8
57.5°	8367.1	8309.7	8126.3	8448.8	9456.0	10010.5	10394.8	10736.1	10977.9	10619.0	8298.6
60°	8702.8	8669.7	8674.1	9290.4	10679.7	11212.1	11424.1	11512.5	11640.6	11099.4	8315.2
62.5°	9023.1	9086.1	9300.3	10226.9	11851.5	12260.2	12367.3	12454.5	12304.3	11175.6	7682.3
65°	9565.4	9668.1	10179.4	11480.4	13140.4	13577.7	13688.2	13388.9	12409.3	10190.5	6248.8
67.5°	9830.4	10018.2	10930.4	12648.9	14390.6	14876.5	14835.7	13449.6	11135.9	7770.7	4010.1
69°	9775.2	9975.1	11103.8	13006.7	14805.8	15246.5	14987.0	12706.3	9487.0	5629.2	2461.8
70°	9556.5	9758.7	11014.4	12993.5	14858.9	15207.9	14706.4	11788.6	8021.4	4116.2	1539.6
72.5°	7980.5	8155.0	9778.5	11744.4	13688.2	13404.3	12303.2	8167.2	3908.5	1121.0	346.8
75°	4912.5	5009.6	7016.4	8847.5	10338.5	9609.6	8197.0	4063.2	1165.2	317.0	192.2
77.5°	2595.4	2639.6	3841.2	5215.1	6553.6	5422.7	4201.2	1584.8	536.7	198.8	139.2
80°	1534.0	1567.2	2068.6	2384.4	2836.1	2369.0	1679.8	973.0	384.3	124.8	123.7
82.5°	878.0	899.0	1499.8	1325.3	1117.7	954.2	836.0	922.2	230.8	83.9	128.1
85°	322.5	326.9	843.8	1008.3	664.9	395.4	415.3	764.3	61.8	53.0	100.5
87.5°	150.2	146.9	434.0	617.4	388.8	250.7	323.6	167.9	24.3	34.2	27.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P300860

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1	2772.1
2.5°	2739.0	2698.1	2624.1	2547.9	2470.6	2410.9	2352.4	2306.0	2290.6	2261.9	2264.1
5°	2655.0	2579.9	2425.3	2268.5	2105.0	1970.3	1843.3	1740.6	1690.9	1640.1	1640.1
7.5°	2582.1	2472.8	2230.9	1975.8	1711.9	1489.9	1290.0	1139.8	1056.9	990.7	989.6
10°	2554.5	2406.5	2068.6	1703.0	1335.2	1032.6	795.2	642.8	564.4	513.6	511.3
12.5°	2566.7	2383.3	1943.8	1451.2	989.6	663.8	460.5	362.2	329.1	313.7	313.7
15°	2602.0	2376.7	1819.0	1204.9	699.1	415.3	305.9	279.4	277.2	277.2	277.2
17.5°	2645.1	2378.9	1690.9	965.3	476.0	297.1	264.0	260.6	262.9	262.9	262.9
20°	2689.3	2380.0	1552.8	743.3	335.7	258.4	248.5	247.4	249.6	249.6	250.7
22.5°	2743.4	2385.5	1414.8	555.5	277.2	244.1	236.3	236.3	237.5	237.5	236.3
25°	2805.2	2396.6	1271.2	411.9	252.9	234.1	227.5	226.4	227.5	226.4	225.3
27.5°	2882.5	2412.1	1111.0	322.5	241.9	224.2	218.7	218.7	217.6	216.5	215.4
30°	2979.7	2429.7	931.0	273.9	230.8	215.4	209.8	208.7	207.6	205.4	205.4
32.5°	3127.7	2468.4	753.2	248.5	218.7	203.2	198.8	198.8	196.6	194.4	193.3
35°	3355.2	2544.6	594.2	233.0	205.4	190.0	184.4	184.4	182.2	181.1	180.0
37.5°	3670.0	2660.5	461.6	218.7	192.2	175.6	170.1	169.0	166.8	164.6	163.5
40°	4088.6	2804.1	363.4	205.4	178.9	161.2	156.8	154.6	150.2	146.9	146.9
42.5°	4614.3	2967.6	294.9	191.1	163.5	148.0	144.7	141.4	133.6	130.3	129.2
45°	5164.3	3114.5	249.6	174.5	148.0	134.7	132.5	127.0	117.1	113.8	113.8
47.5°	5560.8	3148.7	219.8	159.0	133.6	120.4	119.3	109.3	100.5	98.3	97.2
50°	5808.1	3081.3	195.5	143.6	120.4	107.1	103.8	91.7	86.1	83.9	82.8
52.5°	5974.9	2960.9	175.6	130.3	108.2	95.0	87.2	78.4	74.0	71.8	71.8
55°	6108.5	2790.9	155.7	118.2	98.3	85.0	74.0	67.4	63.0	60.7	60.7
57.5°	6146.1	2560.0	135.8	108.2	88.4	75.1	63.0	58.5	53.0	51.9	51.9
60°	5873.3	2143.7	120.4	96.1	79.5	65.2	55.2	49.7	44.2	43.1	42.0
62.5°	5154.3	1658.8	106.0	85.0	69.6	56.3	47.5	40.9	36.4	36.4	36.4
65°	3931.7	1112.2	92.8	74.0	60.7	47.5	40.9	33.1	30.9	30.9	32.0
67.5°	2353.5	605.2	79.5	63.0	51.9	39.8	34.2	28.7	27.6	28.7	28.7
69°	1379.4	355.6	71.8	56.3	45.3	35.3	29.8	25.4	27.6	28.7	28.7
70°	851.5	239.7	66.3	50.8	40.9	32.0	27.6	24.3	26.5	27.6	27.6
72.5°	237.5	123.7	53.0	39.8	33.1	26.5	22.1	22.1	25.4	26.5	26.5
75°	154.6	91.7	40.9	29.8	25.4	21.0	18.8	21.0	24.3	25.4	25.4
77.5°	128.1	75.1	33.1	24.3	21.0	19.9	17.7	18.8	22.1	23.2	23.2
80°	117.1	53.0	26.5	22.1	18.8	17.7	16.6	15.5	19.9	21.0	21.0
82.5°	111.5	42.0	23.2	19.9	17.7	15.5	14.4	15.5	17.7	18.8	19.9
85°	69.6	27.6	21.0	18.8	15.5	14.4	14.4	14.4	16.6	17.7	17.7
87.5°	25.4	22.1	18.8	15.5	13.3	13.3	13.3	13.3	14.4	16.6	16.6
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)