

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: P301890

Luminaire Tested: **GAA-AF-06-LED-U-SL4-7027-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P301890  
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-06-LED-U-SL4-7027-800-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
w/Spill Control WITH HOUSESIDE SHEILD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18427.8 lumens  
Efficiency: N/A  
Efficacy: 74.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G4  
  
Input Watts (W): 249  
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

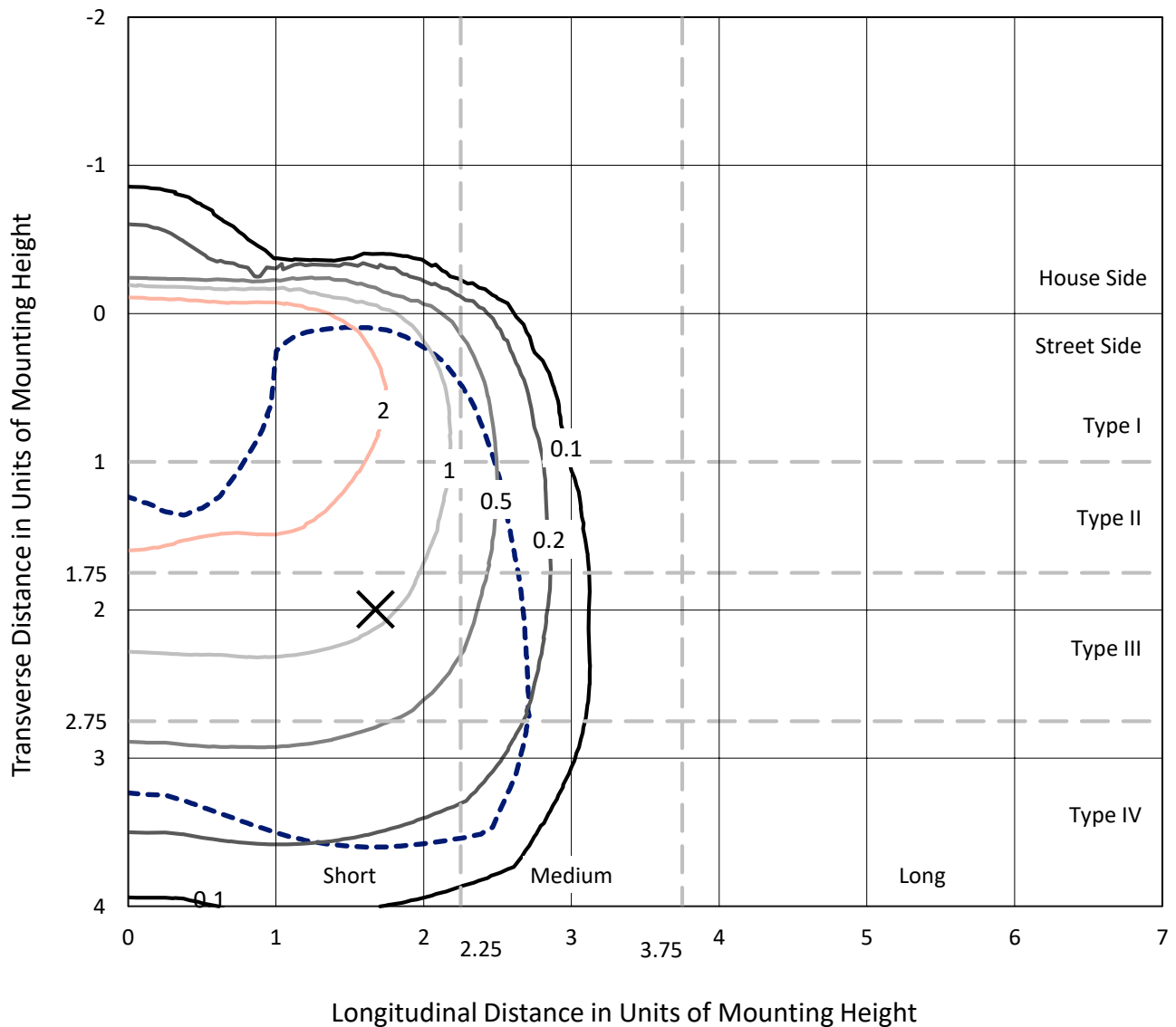


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

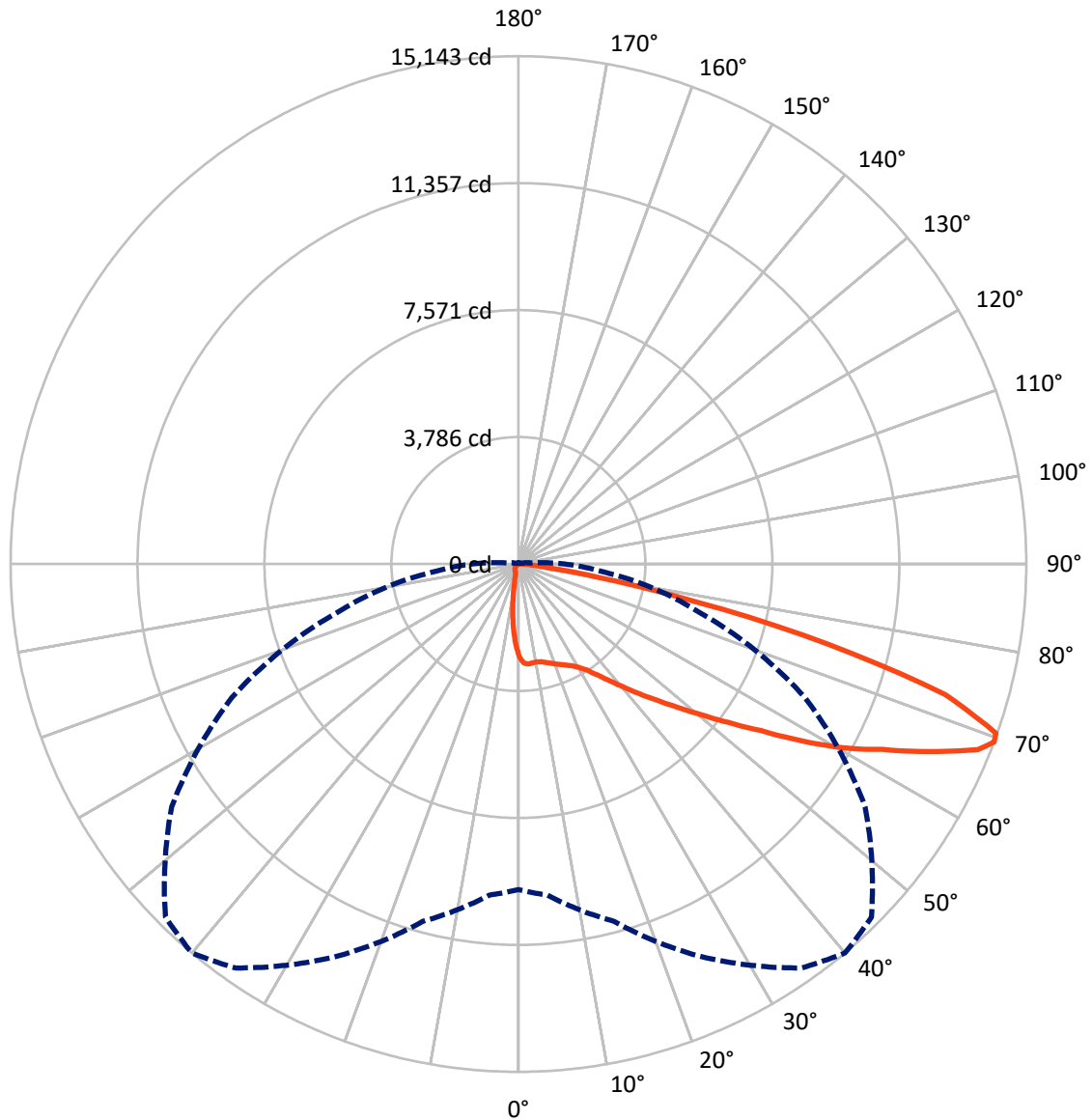


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type IV - Short - Semi-Cutoff

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### 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
<b>House Side</b>	Lumens	1078.1	0.0	1078.1
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	17349.6	0.0	17349.6
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	18427.8	0.0	18427.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.2	1.2
10°-20°	549.0	3.0
20°-30°	924.6	5.0
30°-40°	1513.7	8.2
40°-50°	2620.9	14.2
50°-60°	4128.1	22.4
60°-70°	5391.2	29.3
70°-80°	2776.7	15.1
80°-90°	300.4	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°	18427.8	100.0
0°-180°	18427.8	100.0

**Coefficient of Utilization**



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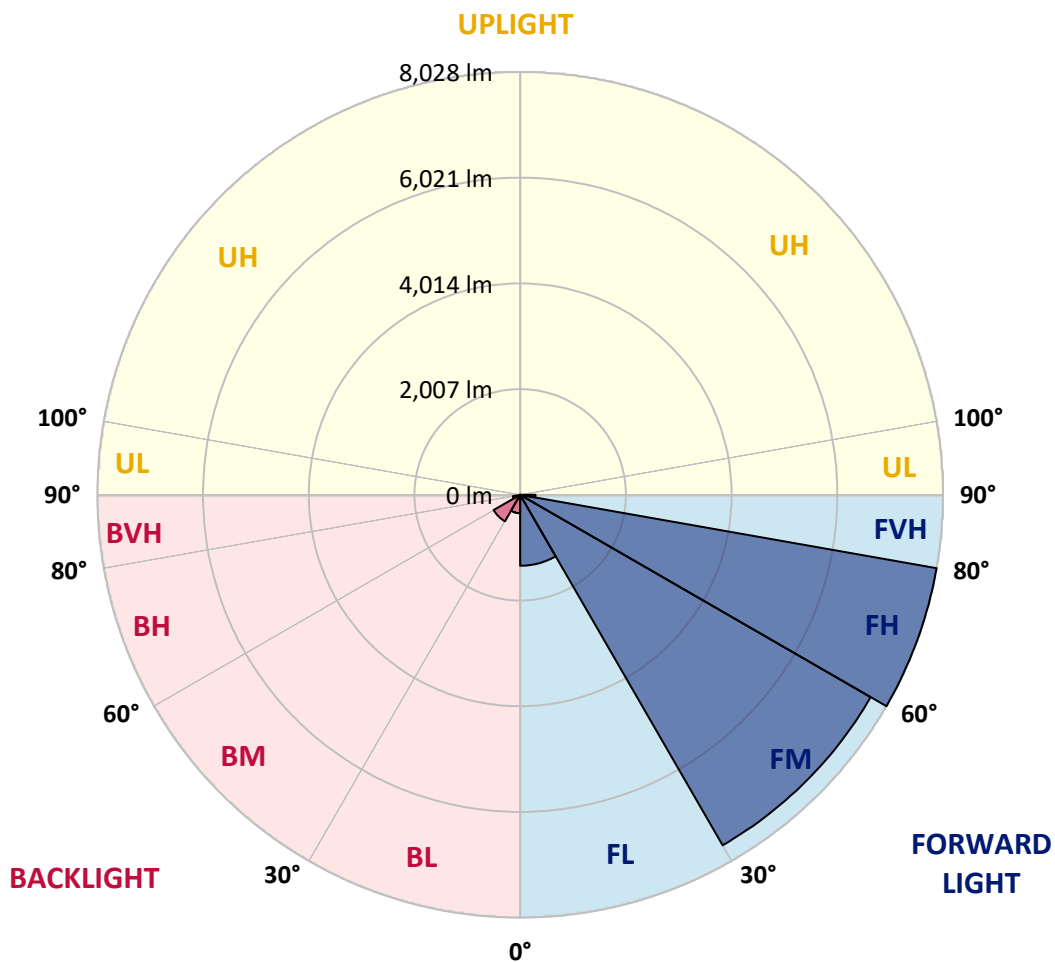
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1347.6	7.3			
FM	(30°-60°)	7683.2	41.7			
FH	(60°-80°)	8027.9	43.6			G4/12000
FVH	(80°-90°)	290.9	1.6			G3/500
BL	(0°-30°)	349.2	1.9	B1/500		
BM	(30°-60°)	579.5	3.1	B1/1000		
BH	(60°-80°)	140.0	0.8	B1/500		G1/500
BVH	(80°-90°)	9.4	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2753.2	2753.2	2753.2	2753.2	2753.2	2753.2	2753.2	2753.2	2753.2	2753.2	2753.2
2.5°	3023.0	3006.6	2996.7	2983.6	2967.1	2952.8	2947.4	2906.8	2868.4	2815.7	2755.4
5°	3079.0	3073.5	3055.9	3038.4	3018.7	2996.7	2984.6	2936.4	2881.5	2804.8	2699.5
7.5°	3084.5	3077.9	3055.9	3031.8	3004.4	2978.1	2957.2	2909.0	2858.5	2780.6	2652.3
10°	3075.7	3068.0	3051.6	3025.2	2991.2	2966.0	2945.2	2899.1	2856.3	2786.1	2643.5
12.5°	3065.8	3058.1	3050.5	3037.3	3007.7	2990.1	2972.6	2928.7	2890.3	2831.1	2675.3
15°	3075.7	3071.3	3080.1	3074.6	3058.1	3042.8	3025.2	2985.7	2950.6	2901.3	2733.5
17.5°	3117.4	3117.4	3144.8	3148.1	3132.7	3110.8	3085.6	3046.1	3016.5	2974.8	2802.6
20°	3215.0	3211.7	3246.8	3253.4	3216.1	3182.1	3144.8	3096.5	3073.5	3047.2	2870.6
22.5°	3382.8	3367.5	3388.3	3381.7	3308.2	3255.6	3209.5	3150.3	3138.2	3126.1	2946.3
25°	3601.1	3592.3	3606.6	3541.9	3412.4	3341.1	3286.3	3219.4	3219.4	3231.4	3031.8
27.5°	3918.1	3885.2	3836.9	3722.9	3528.7	3437.7	3378.4	3307.1	3325.8	3370.8	3144.8
30°	4242.8	4206.6	4095.8	3920.3	3670.2	3574.8	3505.7	3431.1	3475.0	3557.2	3296.2
32.5°	4563.1	4522.5	4365.6	4144.1	3873.1	3777.7	3710.8	3628.5	3702.0	3840.2	3517.7
35°	4873.5	4837.3	4656.3	4395.3	4143.0	4064.0	4002.6	3931.3	4025.6	4218.7	3830.4
37.5°	5222.3	5182.8	4962.3	4679.4	4470.9	4413.9	4368.9	4297.6	4462.2	4745.2	4265.8
40°	5651.2	5584.3	5287.0	5005.1	4850.5	4823.0	4792.3	4782.5	5038.0	5429.6	4846.1
42.5°	6142.6	6032.9	5627.1	5348.5	5267.3	5287.0	5279.4	5323.2	5758.7	6280.8	5552.5
45°	6634.0	6492.5	6005.5	5714.8	5725.8	5794.9	5837.7	6013.2	6661.4	7257.1	6312.6
47.5°	7050.8	6911.5	6368.6	6110.8	6242.4	6378.4	6494.7	6827.1	7589.4	8217.9	6903.9
50°	7407.3	7275.7	6753.6	6546.3	6842.4	7061.8	7250.5	7743.0	8587.6	8949.6	7318.5
52.5°	7699.1	7611.3	7152.8	7045.4	7528.0	7849.4	8125.8	8715.9	9471.7	9544.1	7641.0
55°	7983.2	7920.7	7581.7	7638.8	8333.1	8770.8	9120.7	9748.1	10232.9	10039.9	7950.3
57.5°	8310.1	8253.0	8070.9	8391.2	9391.6	9942.2	10324.0	10662.9	10903.1	10546.6	8242.1
60°	8643.5	8610.6	8615.0	9227.1	10607.0	11135.7	11346.3	11434.0	11561.3	11023.8	8258.5
62.5°	8961.6	9024.1	9236.9	10157.2	11770.8	12176.6	12283.0	12369.7	12220.5	11099.5	7630.0
65°	9500.2	9602.2	10110.1	11402.2	13050.8	13485.2	13594.9	13297.6	12324.7	10121.0	6206.2
67.5°	9763.5	9949.9	10856.0	12562.7	14292.5	14775.2	14734.6	13358.0	11060.0	7717.7	3982.8
69°	9708.6	9907.1	11028.2	12918.1	14705.0	15142.6	14884.9	12619.8	9422.3	5590.9	2445.0
70°	9491.4	9692.2	10939.3	12905.0	14757.6	15104.2	14606.2	11708.2	7966.7	4088.1	1529.1
72.5°	7926.2	8099.5	9711.9	11664.4	13594.9	13313.0	12219.4	8111.5	3881.9	1113.3	344.4
75°	4879.0	4975.5	6968.6	8787.2	10268.0	9544.1	8141.1	4035.5	1157.2	314.8	190.9
77.5°	2577.7	2621.6	3815.0	5179.5	6509.0	5385.7	4172.6	1574.0	533.1	197.4	138.2
80°	1523.6	1556.5	2054.5	2368.2	2816.8	2352.8	1668.4	966.4	381.7	123.9	122.9
82.5°	872.0	892.9	1489.6	1316.3	1110.1	947.7	830.3	915.9	229.3	83.4	127.2
85°	320.3	324.7	838.0	1001.5	660.3	392.7	412.4	759.1	61.4	52.7	99.8
87.5°	149.2	145.9	431.1	613.2	386.1	249.0	321.4	166.7	24.1	34.0	27.4
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°	2753.2	2753.2	2753.2	2753.2	2753.2	2753.2	2753.2	2753.2	2753.2	2753.2	2753.2
2.5°	2720.3	2679.7	2606.2	2530.5	2453.8	2394.5	2336.4	2290.3	2275.0	2246.4	2248.6
5°	2636.9	2562.3	2408.8	2253.0	2090.7	1956.9	1830.7	1728.7	1679.3	1628.9	1628.9
7.5°	2564.5	2455.9	2215.7	1962.3	1700.2	1479.7	1281.2	1132.0	1049.7	983.9	982.8
10°	2537.1	2390.1	2054.5	1691.4	1326.1	1025.6	789.8	638.4	560.5	510.1	507.9
12.5°	2549.2	2367.1	1930.5	1441.3	982.8	659.2	457.4	359.8	326.9	311.5	311.5
15°	2584.3	2360.5	1806.6	1196.7	694.3	412.4	303.8	277.5	275.3	275.3	275.3
17.5°	2627.1	2362.7	1679.3	958.7	472.8	295.1	262.2	258.9	261.1	261.1	261.1
20°	2670.9	2363.8	1542.2	738.2	333.5	256.7	246.8	245.7	247.9	247.9	249.0
22.5°	2724.7	2369.3	1405.1	551.7	275.3	242.4	234.7	234.7	235.8	235.8	234.7
25°	2786.1	2380.3	1262.5	409.1	251.2	232.5	226.0	224.9	226.0	224.9	223.8
27.5°	2862.9	2395.6	1103.5	320.3	240.2	222.7	217.2	217.2	216.1	215.0	213.9
30°	2959.4	2413.2	924.7	272.0	229.3	213.9	208.4	207.3	206.2	204.0	204.0
32.5°	3106.4	2451.6	748.1	246.8	217.2	201.8	197.4	197.4	195.2	193.1	192.0
35°	3332.4	2527.2	590.1	231.4	204.0	188.7	183.2	183.2	181.0	179.9	178.8
37.5°	3645.0	2642.4	458.5	217.2	190.9	174.4	168.9	167.8	165.6	163.4	162.3
40°	4060.7	2785.0	360.9	204.0	177.7	160.1	155.8	153.6	149.2	145.9	145.9
42.5°	4582.8	2947.4	292.9	189.8	162.3	147.0	143.7	140.4	132.7	129.4	128.3
45°	5129.1	3093.2	247.9	173.3	147.0	133.8	131.6	126.1	116.3	113.0	113.0
47.5°	5522.9	3127.2	218.3	158.0	132.7	119.6	118.5	108.6	99.8	97.6	96.5
50°	5768.6	3060.3	194.2	142.6	119.6	106.4	103.1	91.0	85.6	83.4	82.3
52.5°	5934.2	2940.8	174.4	129.4	107.5	94.3	86.7	77.9	73.5	71.3	71.3
55°	6066.9	2771.9	154.7	117.4	97.6	84.5	73.5	66.9	62.5	60.3	60.3
57.5°	6104.2	2542.6	134.9	107.5	87.8	74.6	62.5	58.1	52.7	51.6	51.6
60°	5833.3	2129.1	119.6	95.4	79.0	64.7	54.8	49.4	43.9	42.8	41.7
62.5°	5119.2	1647.5	105.3	84.5	69.1	55.9	47.2	40.6	36.2	36.2	36.2
65°	3904.9	1104.6	92.1	73.5	60.3	47.2	40.6	32.9	30.7	30.7	31.8
67.5°	2337.5	601.1	79.0	62.5	51.6	39.5	34.0	28.5	27.4	28.5	28.5
69°	1370.0	353.2	71.3	55.9	45.0	35.1	29.6	25.2	27.4	28.5	28.5
70°	845.7	238.0	65.8	50.5	40.6	31.8	27.4	24.1	26.3	27.4	27.4
72.5°	235.8	122.9	52.7	39.5	32.9	26.3	21.9	21.9	25.2	26.3	26.3
75°	153.6	91.0	40.6	29.6	25.2	20.8	18.6	20.8	24.1	25.2	25.2
77.5°	127.2	74.6	32.9	24.1	20.8	19.7	17.6	18.6	21.9	23.0	23.0
80°	116.3	52.7	26.3	21.9	18.6	17.6	16.5	15.4	19.7	20.8	20.8
82.5°	110.8	41.7	23.0	19.7	17.6	15.4	14.3	15.4	17.6	18.6	19.7
85°	69.1	27.4	20.8	18.6	15.4	14.3	14.3	14.3	16.5	17.6	17.6
87.5°	25.2	21.9	18.6	15.4	13.2	13.2	13.2	13.2	14.3	16.5	16.5
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)