

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: P322874

Luminaire Tested: **GAN-SA0A-740-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33432 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

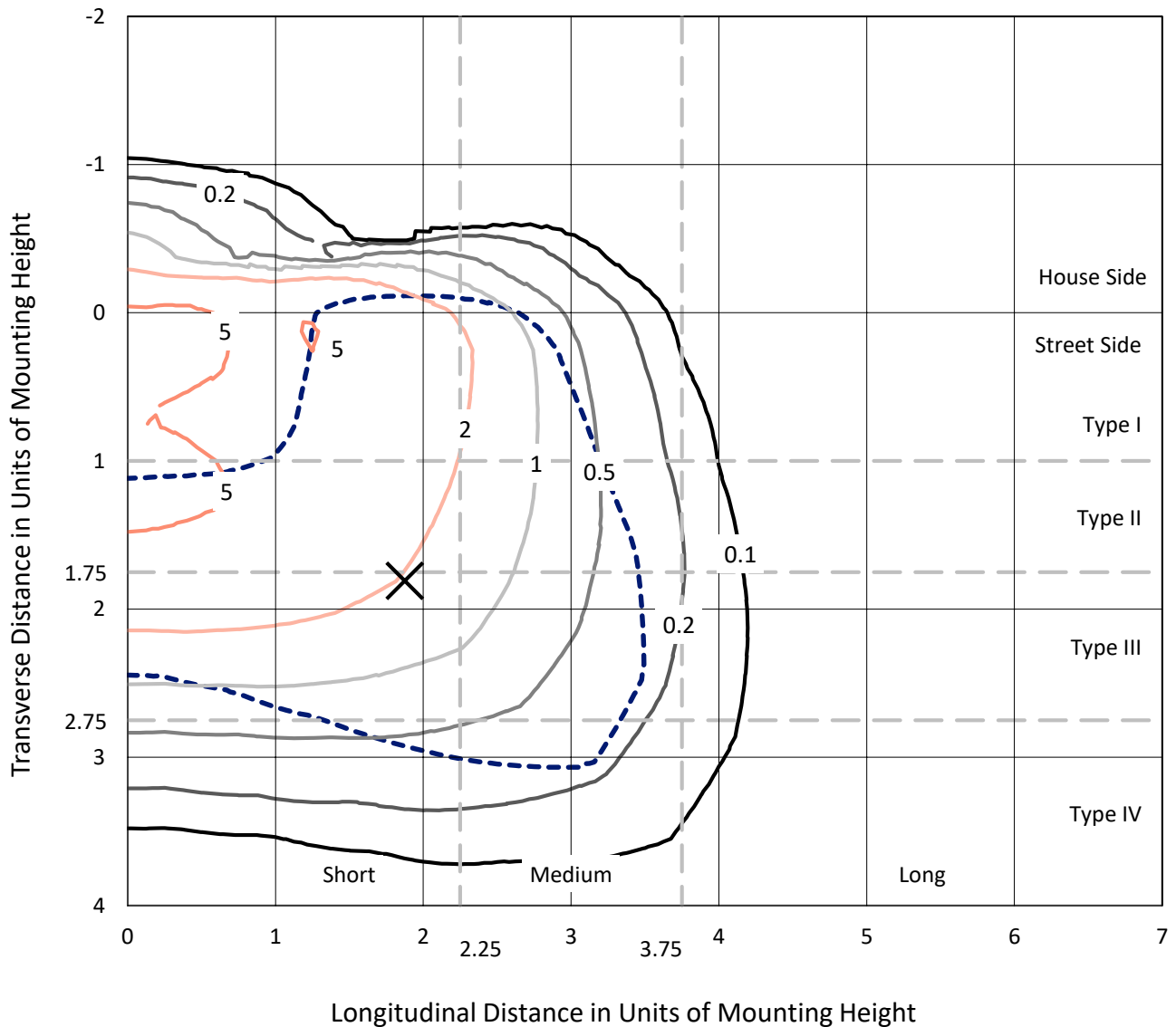
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

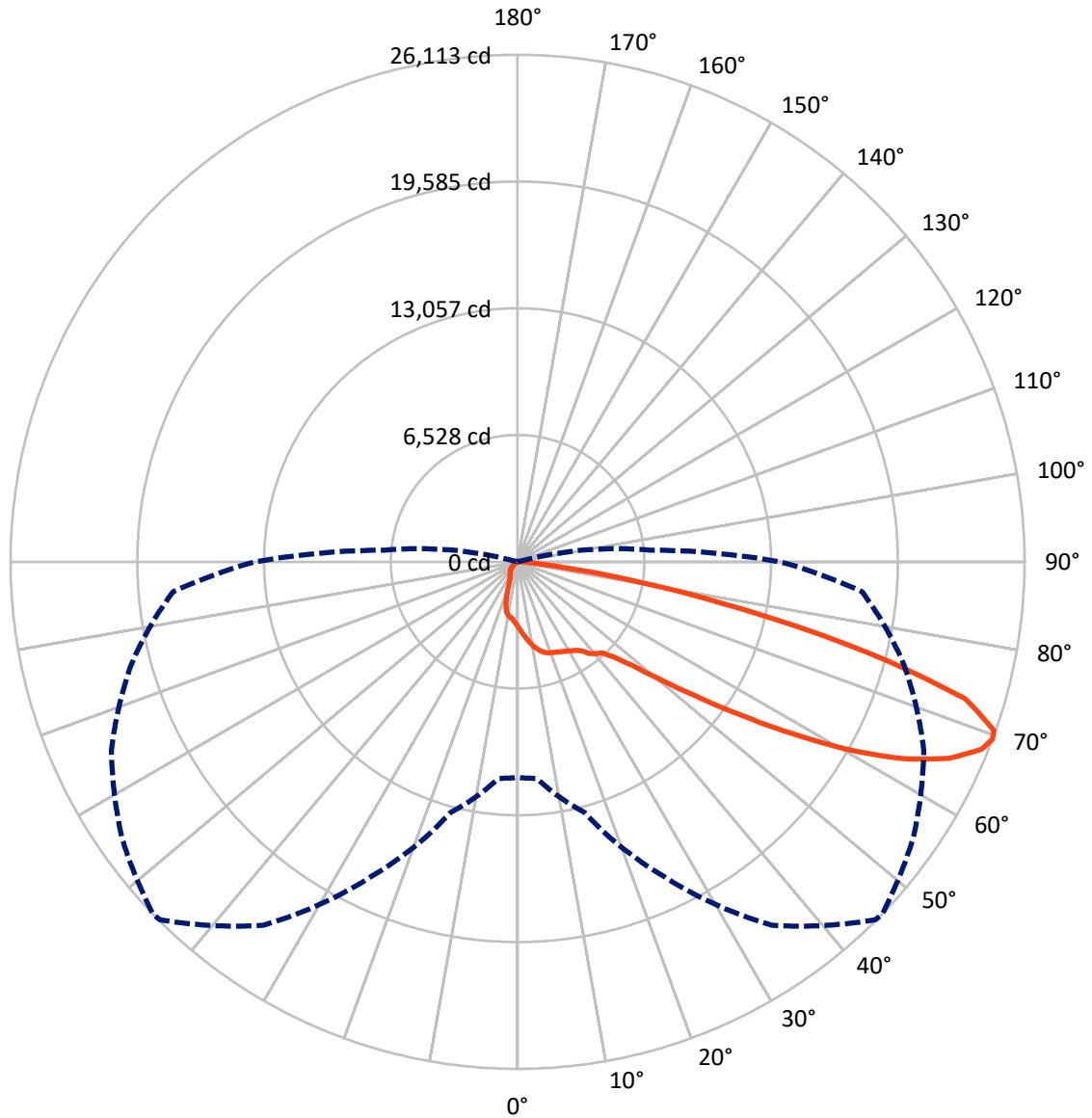
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3431.0	0.0	3431.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	30001.0	0.0	30001.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	33432.0	0.0	33432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.4	1.0
10°-20°	1011.5	3.0
20°-30°	1590.8	4.8
30°-40°	2281.2	6.8
40°-50°	3942.7	11.8
50°-60°	7789.2	23.3
60°-70°	10886.1	32.6
70°-80°	5259.1	15.7
80°-90°	338.0	1.0
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°	33432.0	100.0
0°-180°	33432.0	100.0

Coefficient of Utilization



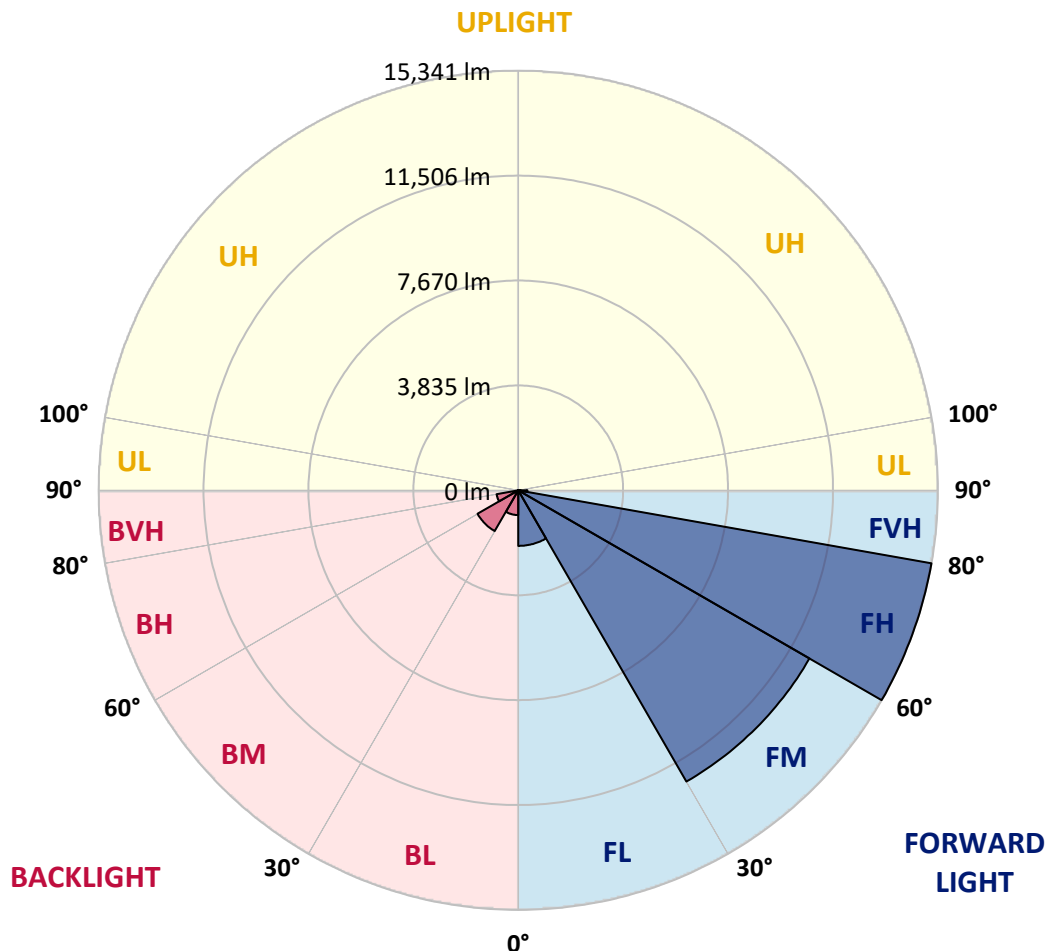
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2031.4	6.1			
FM (30°-60°)	12293.7	36.8			
FH (60°-80°)	15340.7	45.9			G5
FVH (80°-90°)	335.2	1.0			G3/500
BL (0°-30°)	904.3	2.7	B2/1000		
BM (30°-60°)	1719.4	5.1	B2/2500		
BH (60°-80°)	804.5	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3349.8	3349.8	3349.8	3349.8	3349.8	3349.8	3349.8	3349.8	3349.8	3349.8	3349.8
2.5°	3721.3	3716.6	3694.6	3685.2	3631.9	3600.6	3588.0	3548.8	3492.4	3436.0	3373.3
5°	4144.5	4142.9	4102.2	4063.0	3962.7	3868.6	3851.4	3760.4	3633.5	3514.3	3395.2
7.5°	4577.1	4556.7	4516.0	4440.7	4295.0	4144.5	4130.4	4001.8	3821.6	3649.2	3478.3
10°	4943.9	4931.4	4878.1	4763.7	4592.8	4421.9	4404.7	4246.4	4042.6	3831.0	3613.1
12.5°	5229.2	5219.8	5149.3	5006.6	4824.8	4647.7	4624.1	4483.1	4265.2	4028.5	3771.4
15°	5403.2	5398.5	5312.3	5160.2	4981.5	4827.9	4807.5	4683.7	4481.5	4233.8	3943.8
17.5°	5444.0	5445.5	5356.2	5202.6	5055.2	4945.5	4929.8	4835.8	4666.5	4420.4	4116.3
20°	5353.0	5371.8	5291.9	5158.7	5067.7	5009.8	4997.2	4940.8	4798.1	4566.1	4254.2
22.5°	5224.5	5233.9	5179.0	5089.7	5052.1	5063.0	5056.8	5025.4	4904.7	4691.5	4390.6
25°	5146.1	5146.1	5113.2	5038.0	5063.0	5130.4	5132.0	5125.7	5030.1	4845.2	4556.7
27.5°	5143.0	5133.6	5096.0	5039.5	5108.5	5212.0	5218.2	5260.6	5201.0	5031.7	4763.7
30°	5268.4	5257.4	5177.5	5103.8	5191.6	5302.9	5318.5	5411.0	5381.2	5233.9	4994.1
32.5°	5561.5	5522.3	5345.2	5224.5	5290.3	5423.6	5444.0	5591.3	5638.3	5483.1	5216.7
35°	5962.8	5839.0	5583.5	5453.4	5459.6	5599.1	5617.9	5834.3	5973.8	5712.0	5389.1
37.5°	6516.1	6455.0	6039.6	5691.6	5719.8	5931.4	5986.3	6221.4	6182.2	5837.4	5585.0
40°	7729.4	7633.8	7191.7	6359.4	5969.1	6201.1	6218.3	6343.7	6346.8	6121.1	5992.6
42.5°	9381.5	9342.3	8876.8	7571.1	6459.7	6381.3	6412.7	6624.3	6861.0	6719.9	6713.6
45°	11210.8	11190.4	10696.7	9179.3	7451.9	6972.3	7011.5	7295.2	7748.2	7779.5	7978.6
47.5°	12682.7	12673.3	12389.6	10974.1	8970.8	7973.9	7986.4	8287.4	9083.7	9477.1	9795.3
50°	14024.5	14069.9	13845.8	12916.3	11039.9	9543.0	9513.2	9713.8	10992.9	11637.2	12032.2
52.5°	15889.8	15954.1	15325.5	14728.3	13210.9	11489.8	11466.3	11676.4	13287.8	13770.5	13841.1
55°	17537.3	17427.5	16930.6	16758.2	15858.5	13894.4	13888.1	14073.1	15507.3	15712.7	15842.8
57.5°	18264.6	18222.3	18462.1	18857.1	18631.4	16736.3	16722.2	16581.1	17493.4	17515.3	17915.0
60°	18723.9	18775.6	19510.8	20728.7	21291.4	19794.5	19703.6	18843.0	19390.1	19341.5	19769.4
62.5°	18379.0	18480.9	19803.9	21833.8	23282.2	22463.9	22335.4	20915.2	21010.9	20843.1	21241.3
65°	16548.2	16706.5	18874.3	21625.3	24269.7	24550.3	24420.2	22744.5	22297.8	22021.9	21800.9
67.5°	13436.7	13530.7	15794.2	19811.7	23824.5	25794.9	25768.2	24348.1	23269.6	21822.8	20108.0
69°	11104.2	11196.7	13375.5	17902.5	22844.8	26061.4	26113.1	24862.2	23084.7	20612.7	17816.3
70°	9405.0	9503.8	11533.7	16266.0	21708.4	25937.5	26030.0	24813.6	22554.9	19211.4	15805.2
72.5°	4932.9	5017.6	7100.8	11206.1	17697.1	23816.7	24097.3	22716.3	19118.9	13952.4	9345.5
75°	1550.3	1598.9	2772.9	5857.8	12116.8	18518.5	18582.8	17819.4	13576.2	7674.5	3892.1
77.5°	590.9	576.8	923.3	2158.5	6125.8	11660.7	12054.1	11135.6	7124.3	2713.4	898.2
80°	318.2	319.8	479.7	893.5	2620.9	5992.6	6324.9	5396.9	2531.5	846.5	206.9
82.5°	137.9	144.2	269.6	473.4	1203.8	2210.2	2376.3	1978.2	967.2	569.0	76.8
85°	29.8	32.9	130.1	257.1	490.6	620.7	650.5	641.1	616.0	442.0	29.8
87.5°	0.0	0.0	58.0	92.5	123.8	141.1	123.8	161.5	340.1	297.8	15.7
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°	3349.8	3349.8	3349.8	3349.8	3349.8	3349.8	3349.8	3349.8	3349.8	3349.8	3349.8
2.5°	3352.9	3324.7	3276.1	3222.8	3185.2	3146.0	3114.6	3100.5	3084.9	3073.9	3088.0
5°	3346.6	3291.8	3197.7	3106.8	3041.0	2987.7	2943.8	2926.5	2909.3	2896.8	2895.2
7.5°	3401.5	3324.7	3180.5	3047.2	2945.3	2873.2	2813.7	2788.6	2768.2	2758.8	2751.0
10°	3506.5	3407.8	3215.0	3041.0	2909.3	2787.0	2658.5	2559.7	2495.5	2465.7	2454.7
12.5°	3642.9	3519.1	3280.8	3073.9	2882.6	2647.5	2374.8	2139.6	1987.6	1937.4	1907.7
15°	3802.8	3649.2	3367.0	3116.2	2785.5	2356.0	1893.5	1586.3	1445.2	1417.0	1385.7
17.5°	3956.4	3787.1	3470.5	3124.0	2572.3	1882.6	1387.2	1178.8	1123.9	1142.7	1147.4
20°	4091.2	3923.5	3572.3	3055.1	2185.1	1412.3	1073.7	1022.0	1042.4	1078.4	1084.7
22.5°	4227.6	4055.1	3666.4	2873.2	1689.8	1072.2	967.2	979.7	1000.1	1036.1	1042.4
25°	4393.7	4215.0	3754.2	2539.4	1268.1	912.3	918.6	937.4	957.7	990.7	993.8
27.5°	4585.0	4417.2	3812.2	2105.2	940.5	838.6	859.0	887.2	907.6	938.9	945.2
30°	4838.9	4683.7	3831.0	1655.3	788.5	772.8	782.2	816.7	846.5	874.7	879.4
32.5°	5077.2	4947.1	3768.3	1249.3	730.5	711.6	711.6	732.0	766.5	793.2	799.4
35°	5296.6	5212.0	3567.6	913.9	686.6	655.2	639.5	639.5	661.5	683.4	689.7
37.5°	5586.6	5583.5	3243.2	728.9	644.2	608.2	575.3	550.2	542.4	547.1	550.2
40°	6083.5	6088.2	2819.9	653.7	608.2	559.6	509.4	464.0	421.7	407.6	406.0
42.5°	6859.4	6788.9	2376.3	617.6	576.8	509.4	434.2	373.1	307.2	286.9	285.3
45°	8091.5	7672.9	1906.1	584.7	543.9	453.0	359.0	275.9	222.6	206.9	206.9
47.5°	9886.3	8834.5	1476.6	548.6	500.0	388.7	271.2	199.1	163.0	155.2	156.8
50°	11742.2	9972.5	1131.7	503.2	446.7	321.3	200.6	144.2	123.8	123.8	125.4
52.5°	13388.1	10806.4	882.5	454.6	380.9	252.4	152.0	112.9	103.5	101.9	103.5
55°	14928.9	11344.0	675.6	398.1	302.5	188.1	116.0	92.5	86.2	83.1	81.5
57.5°	16414.9	11610.5	506.3	321.3	219.5	136.4	92.5	78.4	72.1	67.4	65.8
60°	17404.0	11394.2	348.0	236.7	152.0	98.8	76.8	67.4	59.6	54.9	53.3
62.5°	17962.1	10803.3	224.2	170.9	108.2	73.7	61.1	56.4	45.5	40.8	40.8
65°	17736.3	9828.3	156.8	122.3	78.4	54.9	45.5	45.5	32.9	26.6	25.1
67.5°	15717.4	8303.1	119.1	90.9	56.4	40.8	34.5	39.2	20.4	12.5	12.5
69°	13522.9	6881.4	101.9	75.2	47.0	32.9	29.8	36.1	14.1	9.4	7.8
70°	11753.2	5936.1	92.5	65.8	39.2	28.2	26.6	34.5	14.1	7.8	6.3
72.5°	7031.8	3310.6	70.5	47.0	25.1	21.9	21.9	39.2	14.1	7.8	6.3
75°	2841.9	1166.2	51.7	32.9	18.8	18.8	26.6	50.2	12.5	6.3	4.7
77.5°	644.2	255.5	29.8	20.4	12.5	18.8	31.4	39.2	7.8	3.1	0.0
80°	156.8	62.7	18.8	12.5	7.8	14.1	23.5	21.9	1.6	0.0	0.0
82.5°	51.7	21.9	7.8	6.3	1.6	4.7	11.0	6.3	0.0	0.0	0.0
85°	21.9	12.5	3.1	1.6	0.0	0.0	1.6	0.0	0.0	0.0	0.0
87.5°	14.1	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)