

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: P321963

Luminaire Tested: **GAN-SA9B-750-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-750-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36343 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

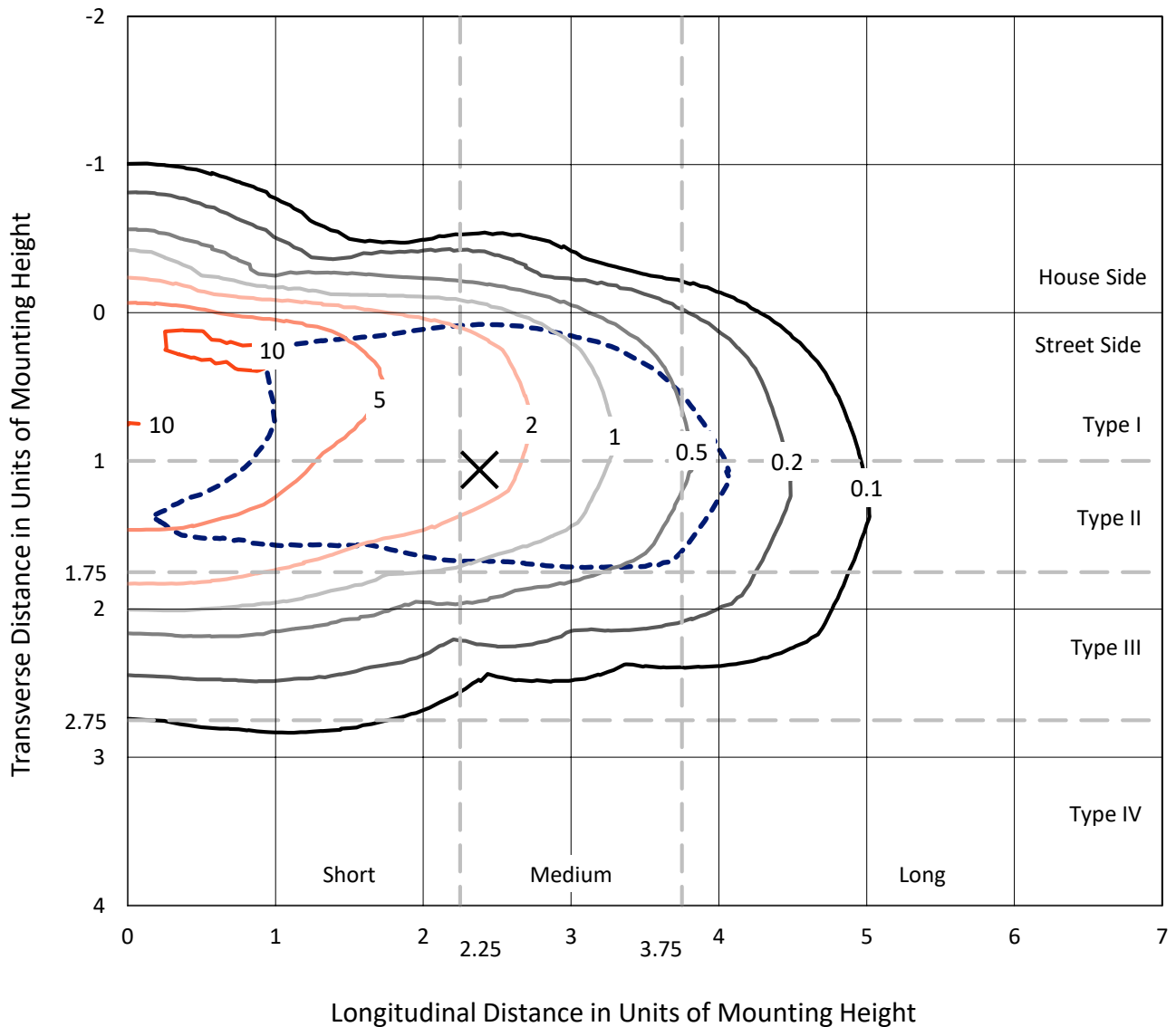
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

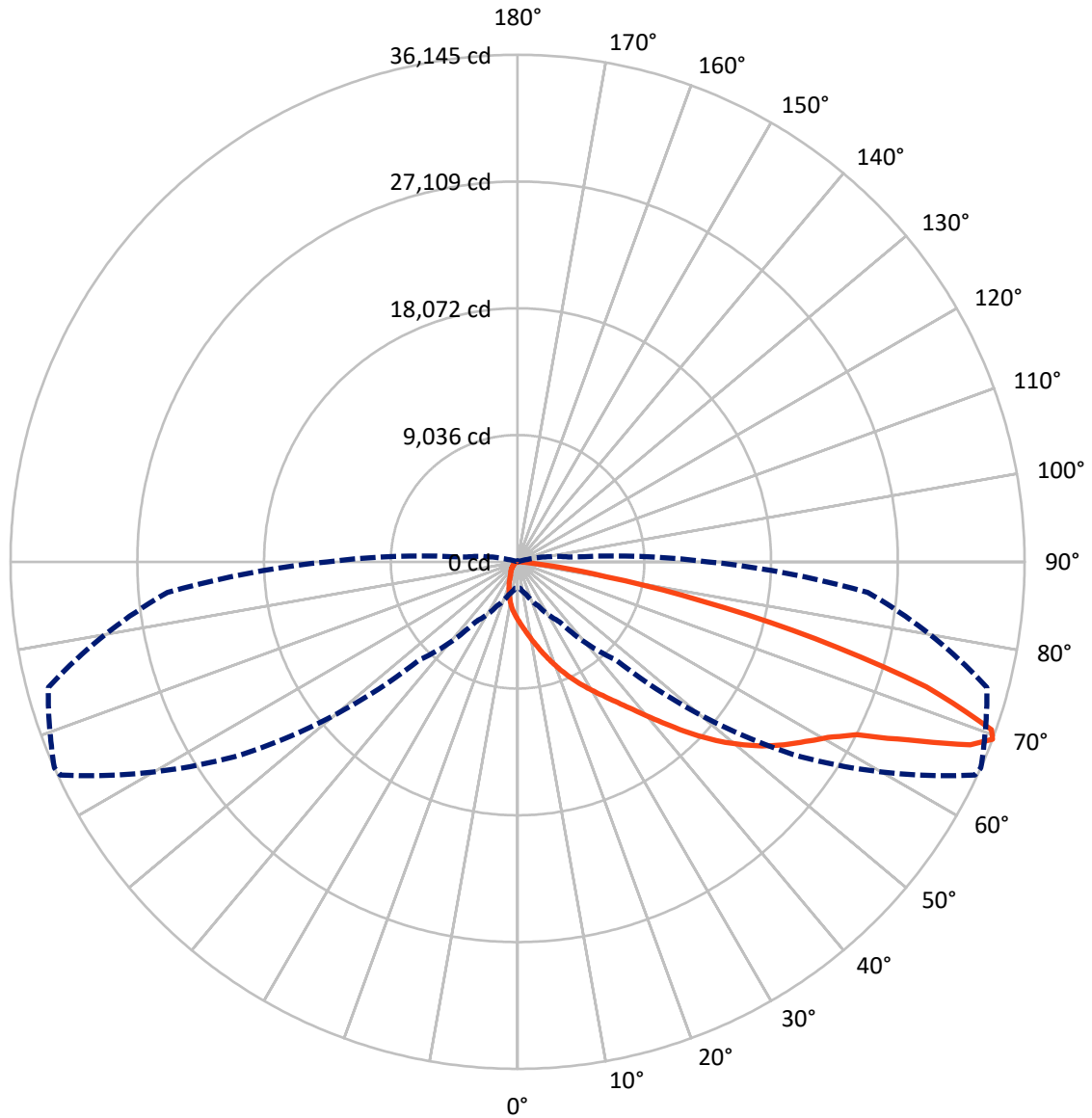
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2180.1	0.0	2180.1
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	34162.9	0.0	34162.9
	% Fixture	94.0	0.0	94.0
Total	Lumens	36343.0	0.0	36343.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.8	1.1
10°-20°	1189.9	3.3
20°-30°	2072.0	5.7
30°-40°	3635.3	10.0
40°-50°	6084.9	16.7
50°-60°	8944.3	24.6
60°-70°	9183.5	25.3
70°-80°	4533.6	12.5
80°-90°	299.8	0.8
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°	36343.0	100.0
0°-180°	36343.0	100.0

Coefficient of Utilization

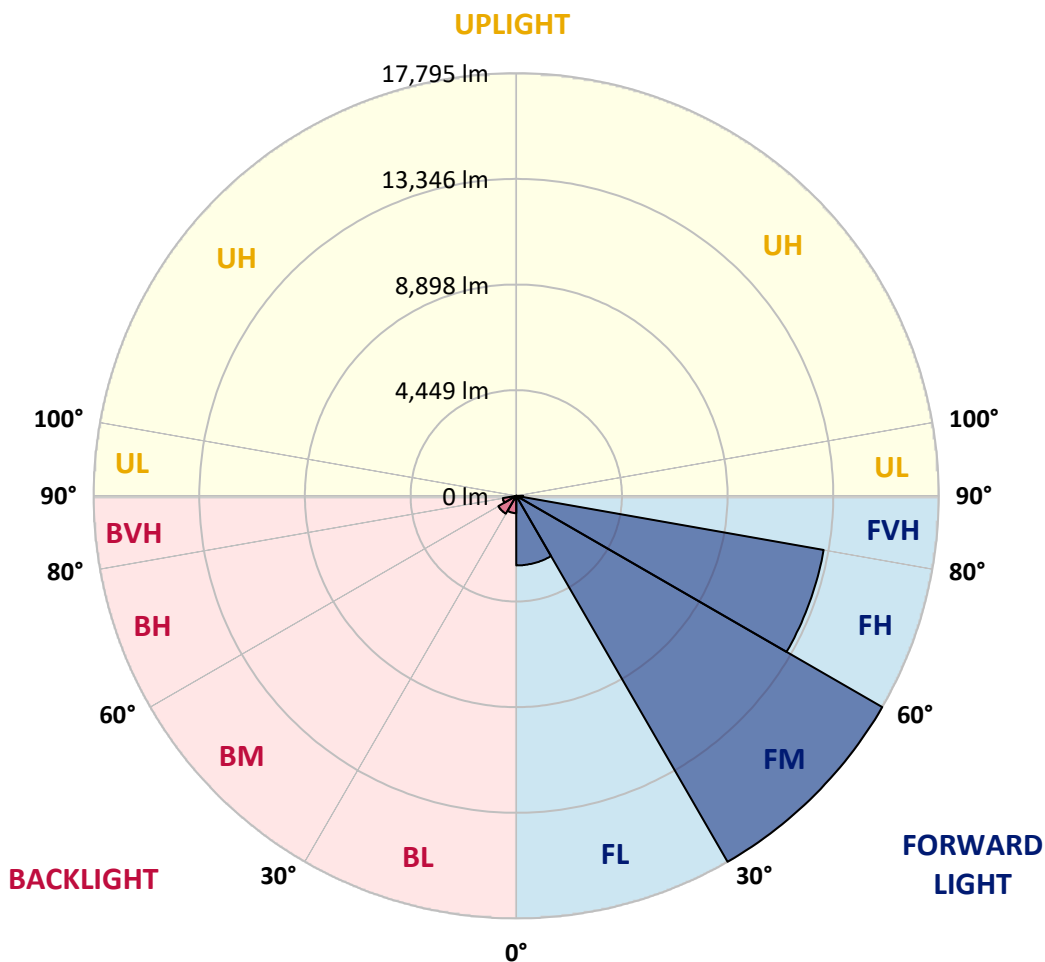


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2932.5	8.1			
FM (30°-60°)	17795.3	49.0			
FH (60°-80°)	13142.6	36.2			G5
FVH (80°-90°)	292.5	0.8			G3/500
BL (0°-30°)	729.1	2.0	B2/1000		
BM (30°-60°)	869.2	2.4	B1/1000		
BH (60°-80°)	574.5	1.6	B2/1000		G2/1000
BVH (80°-90°)	7.2	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4136.0	4136.0	4136.0	4136.0	4136.0	4136.0	4136.0	4136.0	4136.0	4136.0	4136.0
2.5°	4867.9	4847.1	4838.5	4800.5	4734.9	4684.9	4588.2	4476.0	4455.3	4346.5	4213.6
5°	5499.6	5482.4	5470.3	5416.8	5349.5	5223.4	5047.4	4838.5	4798.8	4591.7	4325.8
7.5°	5939.8	5970.9	5970.9	5936.4	5851.8	5756.8	5541.1	5256.2	5206.2	4888.6	4476.0
10°	6197.0	6235.0	6264.3	6293.7	6281.6	6243.6	6039.9	5718.9	5658.4	5237.3	4650.4
12.5°	6221.2	6259.2	6342.0	6464.6	6583.7	6670.0	6542.3	6231.5	6162.5	5641.2	4857.5
15°	6086.5	6126.2	6254.0	6492.2	6780.5	7032.5	7073.9	6799.5	6728.7	6122.8	5116.4
17.5°	5851.8	5877.7	6060.7	6390.4	6842.6	7305.2	7555.5	7408.8	7343.2	6673.4	5404.7
20°	5677.4	5696.4	5857.0	6210.8	6804.6	7476.1	8011.2	8056.1	7987.1	7263.8	5717.1
22.5°	5976.1	6010.6	6015.8	6183.2	6701.1	7560.7	8411.7	8693.1	8641.3	7890.4	6024.4
25°	6792.6	6832.3	6701.1	6597.5	6789.1	7598.7	8755.2	9345.6	9304.2	8565.4	6333.4
27.5°	7871.4	7912.9	7743.7	7434.7	7250.0	7742.0	9060.8	10008.4	10006.7	9280.0	6666.5
30°	8931.3	8972.7	8800.1	8491.1	8066.5	8147.6	9324.9	10702.4	10712.7	10017.1	7020.4
32.5°	10043.0	10094.8	9917.0	9519.9	9076.3	8848.4	9696.0	11399.8	11458.4	10871.5	7419.2
35°	11306.5	11313.4	11063.1	10647.1	10136.2	9785.8	10291.5	12181.7	12321.5	11929.7	7924.9
37.5°	12545.9	12596.0	12390.6	11734.6	11265.1	10868.1	11177.1	13158.7	13357.3	13222.6	8586.1
40°	13464.3	13569.6	13540.2	12832.5	12387.1	12104.0	12276.7	14320.5	14572.5	14727.8	9419.8
42.5°	14040.8	14120.2	14254.9	13828.5	13424.6	13471.2	13574.8	15673.8	15984.5	16443.7	10377.9
45°	14702.0	14739.9	14852.1	14664.0	14391.2	14860.8	14952.3	17198.0	17524.3	18289.0	11441.2
47.5°	15509.8	15599.6	15630.6	15458.0	15333.7	16089.8	16279.7	18584.2	19041.6	20265.5	12566.7
50°	16538.6	16562.8	16616.3	16504.1	16379.8	17146.2	17470.8	20039.3	20455.3	22248.9	13676.6
52.5°	17545.0	17631.3	17817.7	17747.0	17696.9	18045.6	18532.4	21351.2	21815.6	23902.5	14784.8
55°	17835.0	17909.2	18553.1	18993.3	19400.6	19153.8	19547.4	22526.8	23029.1	25380.2	15851.6
57.5°	16676.7	16826.9	17942.0	19088.2	20778.1	20876.5	20942.1	23733.4	24183.9	26512.5	16961.5
60°	13749.1	13778.4	15608.2	17574.3	20550.3	22380.0	22979.0	25029.7	25407.8	27567.2	18290.7
62.5°	8744.9	9043.5	11051.1	13826.8	18140.5	22162.5	25442.3	26990.7	27128.8	28832.5	20196.4
65°	4165.3	4358.6	5805.2	8542.9	13139.8	19378.2	27142.6	30538.0	30600.2	31340.7	22742.5
67.5°	2306.2	2399.4	3088.2	4598.6	7681.5	13704.2	26455.6	34739.6	34798.3	33902.4	24976.2
69°	1803.9	1883.3	2425.3	3466.2	5207.9	9849.6	23940.5	35970.3	36144.7	34636.0	25055.6
70°	1531.1	1608.8	2088.7	2927.6	4187.7	7610.8	21309.8	35664.8	35849.5	34566.9	24463.6
72.5°	937.3	982.2	1391.3	2061.1	2806.8	3828.7	13141.5	30161.7	30474.1	31708.4	21025.0
75°	631.8	656.0	870.0	1422.4	2007.6	1971.3	6827.1	21259.8	21936.4	24665.5	15528.8
77.5°	452.3	474.7	583.5	920.1	1406.8	1301.5	3091.6	13212.3	13357.3	14793.4	8468.7
80°	257.2	277.9	412.6	547.2	954.6	868.3	1229.0	6310.9	6383.4	6343.7	2827.5
82.5°	134.6	151.9	226.1	360.8	612.8	567.9	511.0	2112.9	2123.2	1765.9	619.7
85°	25.9	31.1	112.2	246.8	315.9	246.8	208.9	495.4	505.8	447.1	153.6
87.5°	0.0	1.7	44.9	55.2	62.1	63.9	67.3	96.7	103.6	139.8	41.4
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°	4136.0	4136.0	4136.0	4136.0	4136.0	4136.0	4136.0	4136.0	4136.0	4136.0	4136.0
2.5°	4154.9	4092.8	3973.7	3835.6	3728.6	3623.3	3540.4	3454.1	3423.0	3407.5	3405.8
5°	4196.4	4065.2	3813.2	3554.2	3341.9	3141.7	2998.4	2862.0	2798.2	2768.8	2756.7
7.5°	4265.4	4054.8	3649.2	3253.9	2948.3	2698.0	2499.5	2351.1	2276.8	2245.8	2233.7
10°	4346.5	4041.0	3457.6	2936.2	2546.1	2287.2	2090.4	1943.7	1862.6	1828.0	1810.8
12.5°	4441.5	4016.8	3236.6	2615.2	2202.6	1943.7	1705.5	1524.2	1431.0	1391.3	1372.3
15°	4558.9	3992.7	3005.3	2313.1	1900.5	1584.6	1324.0	1201.4	1182.4	1175.5	1177.3
17.5°	4674.5	3954.7	2753.3	2014.5	1582.9	1237.7	1104.8	1097.9	1101.3	1101.3	1101.3
20°	4778.1	3868.4	2478.8	1759.0	1280.8	1044.3	1016.7	1004.6	996.0	989.1	980.5
22.5°	4859.2	3752.7	2214.7	1505.2	1046.1	956.3	913.2	875.2	844.1	823.4	813.0
25°	4914.5	3599.1	1973.0	1261.8	940.8	870.0	792.3	728.5	680.1	650.8	638.7
27.5°	4955.9	3433.4	1757.3	1056.4	868.3	769.9	668.0	592.1	542.0	516.1	505.8
30°	4985.2	3245.2	1567.4	928.7	787.1	664.6	555.8	481.6	445.4	431.5	424.6
32.5°	5012.9	3036.4	1387.9	868.3	711.2	567.9	466.1	409.1	386.7	369.4	364.2
35°	5081.9	2843.0	1217.0	804.4	633.5	485.1	400.5	359.0	336.6	326.2	322.8
37.5°	5245.9	2699.8	1053.0	738.8	555.8	419.5	350.4	321.1	300.4	290.0	286.5
40°	5510.0	2627.3	914.9	668.0	479.9	369.4	317.6	290.0	267.6	252.0	248.6
42.5°	5898.4	2637.6	818.2	597.3	419.5	329.7	286.5	253.7	229.6	215.8	212.3
45°	6369.6	2713.6	750.9	528.2	369.4	298.6	252.0	217.5	195.1	183.0	179.5
47.5°	6880.6	2836.1	695.7	466.1	329.7	269.3	217.5	181.2	162.3	151.9	150.2
50°	7419.2	2955.2	638.7	405.7	295.2	239.9	183.0	150.2	134.6	126.0	122.6
52.5°	7964.6	3093.3	586.9	350.4	265.8	205.4	151.9	122.6	110.5	103.6	100.1
55°	8551.5	3196.9	536.8	307.3	236.5	174.3	126.0	101.8	91.5	82.9	81.1
57.5°	9242.0	3357.4	485.1	265.8	202.0	145.0	103.6	81.1	72.5	63.9	62.1
60°	10174.2	3545.6	429.8	234.8	165.7	119.1	84.6	65.6	55.2	48.3	46.6
62.5°	11403.2	3754.5	360.8	205.4	134.6	96.7	67.3	51.8	39.7	31.1	31.1
65°	12962.0	4094.5	295.2	172.6	110.5	79.4	51.8	38.0	22.4	13.8	13.8
67.5°	13871.7	4153.2	238.2	141.5	89.8	67.3	43.2	25.9	6.9	1.7	0.0
69°	13579.9	3813.2	202.0	120.8	77.7	63.9	39.7	19.0	3.5	0.0	0.0
70°	13031.0	3486.9	177.8	107.0	70.8	60.4	38.0	13.8	3.5	0.0	0.0
72.5°	10768.0	2482.3	134.6	79.4	51.8	53.5	34.5	8.6	3.5	0.0	0.0
75°	7843.8	1508.7	96.7	55.2	32.8	39.7	24.2	3.5	1.7	0.0	0.0
77.5°	4363.8	711.2	60.4	31.1	20.7	24.2	12.1	0.0	0.0	0.0	0.0
80°	1417.2	193.3	27.6	17.3	12.1	13.8	5.2	0.0	0.0	0.0	0.0
82.5°	262.4	55.2	15.5	8.6	3.5	3.5	0.0	0.0	0.0	0.0	0.0
85°	57.0	22.4	8.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.0	6.9	1.7	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)