

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: P321602

Luminaire Tested: **GAN-SA8B-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35225 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

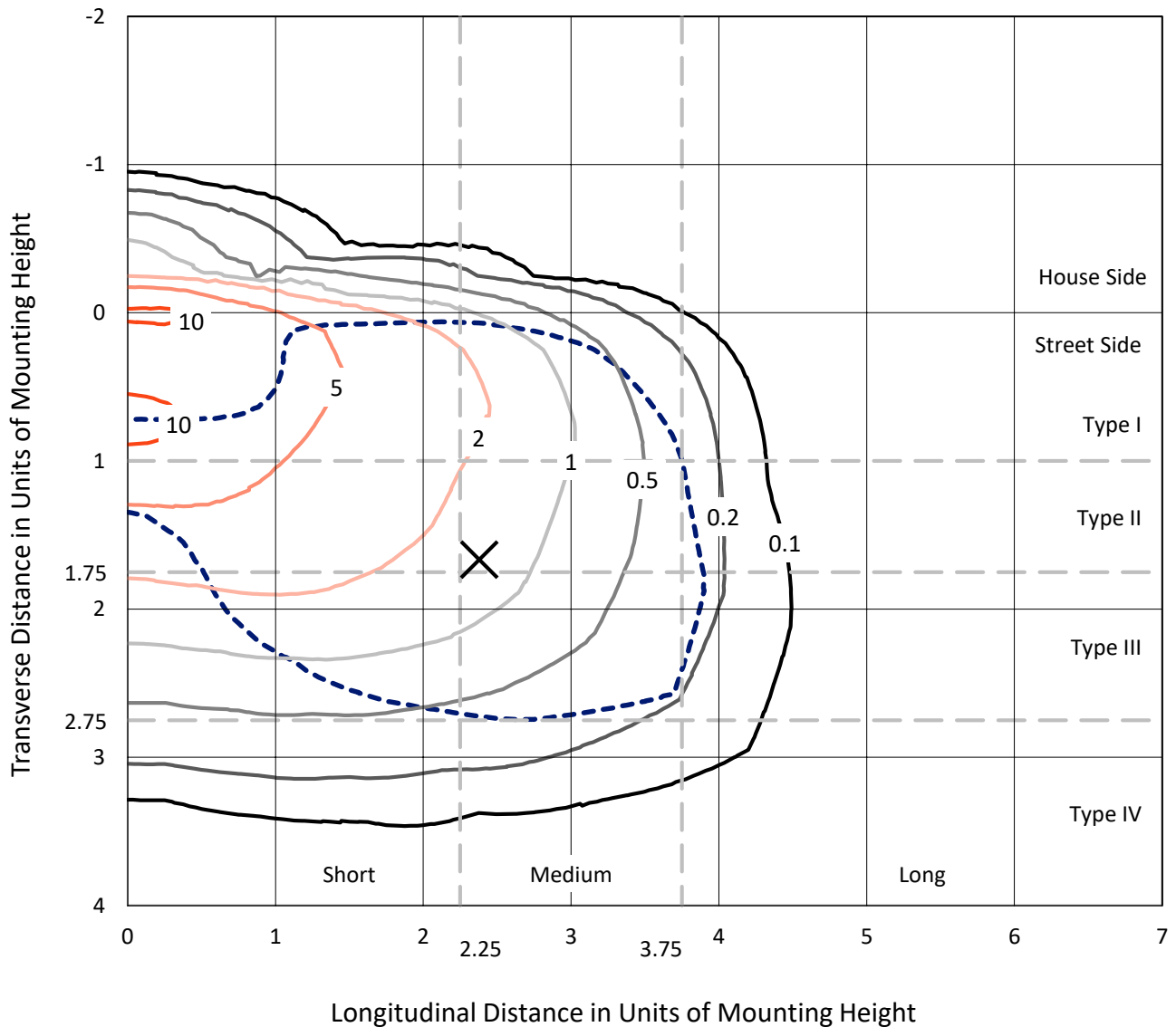
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

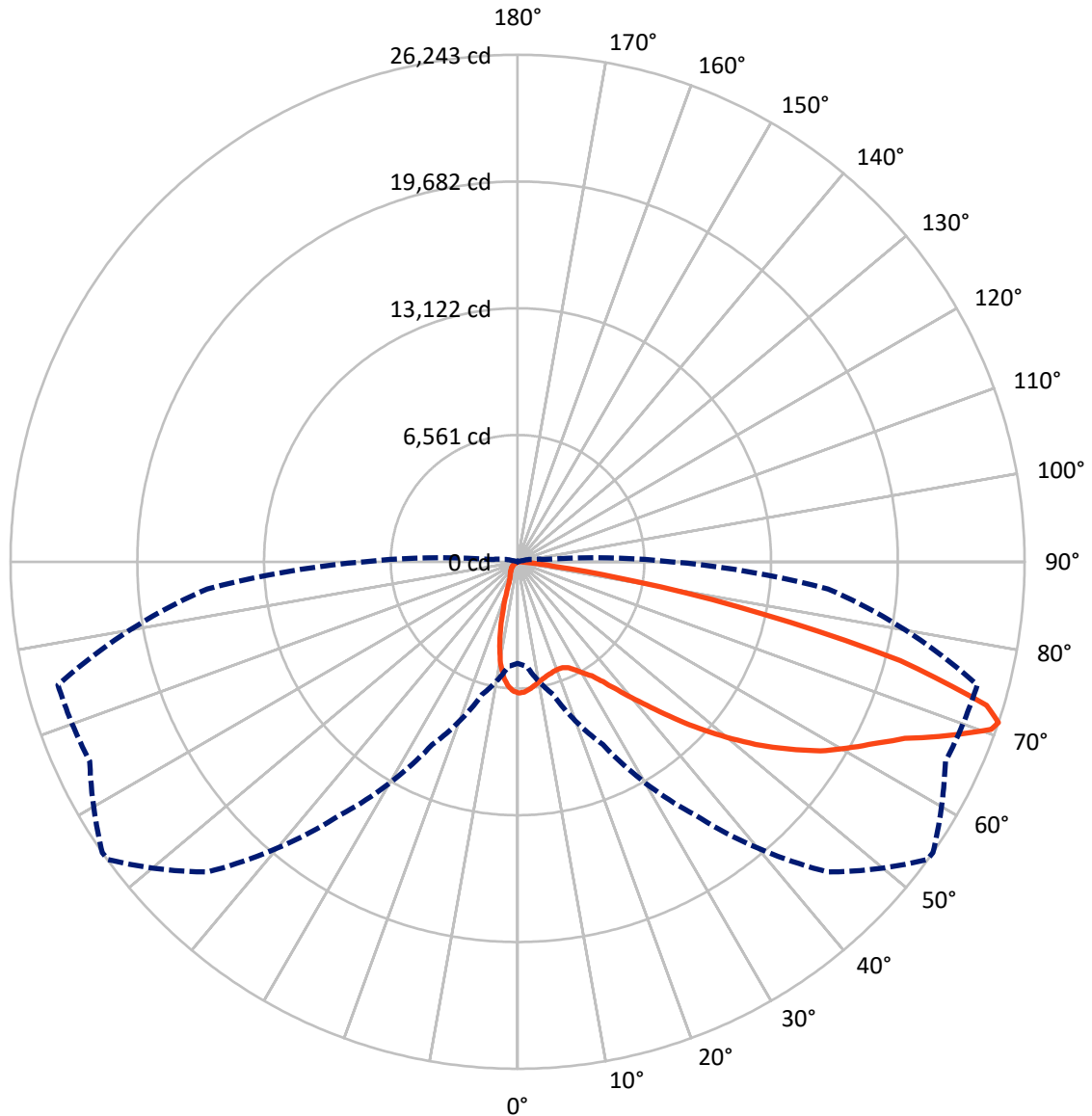
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2788.9	0.0	2788.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	32436.1	0.0	32436.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	35225.0	0.0	35225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.2	1.6
10°-20°	1307.6	3.7
20°-30°	2101.4	6.0
30°-40°	3570.4	10.1
40°-50°	5541.7	15.7
50°-60°	7450.6	21.2
60°-70°	9114.6	25.9
70°-80°	5329.1	15.1
80°-90°	230.4	0.7
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°	35225.0	100.0
0°-180°	35225.0	100.0

Coefficient of Utilization

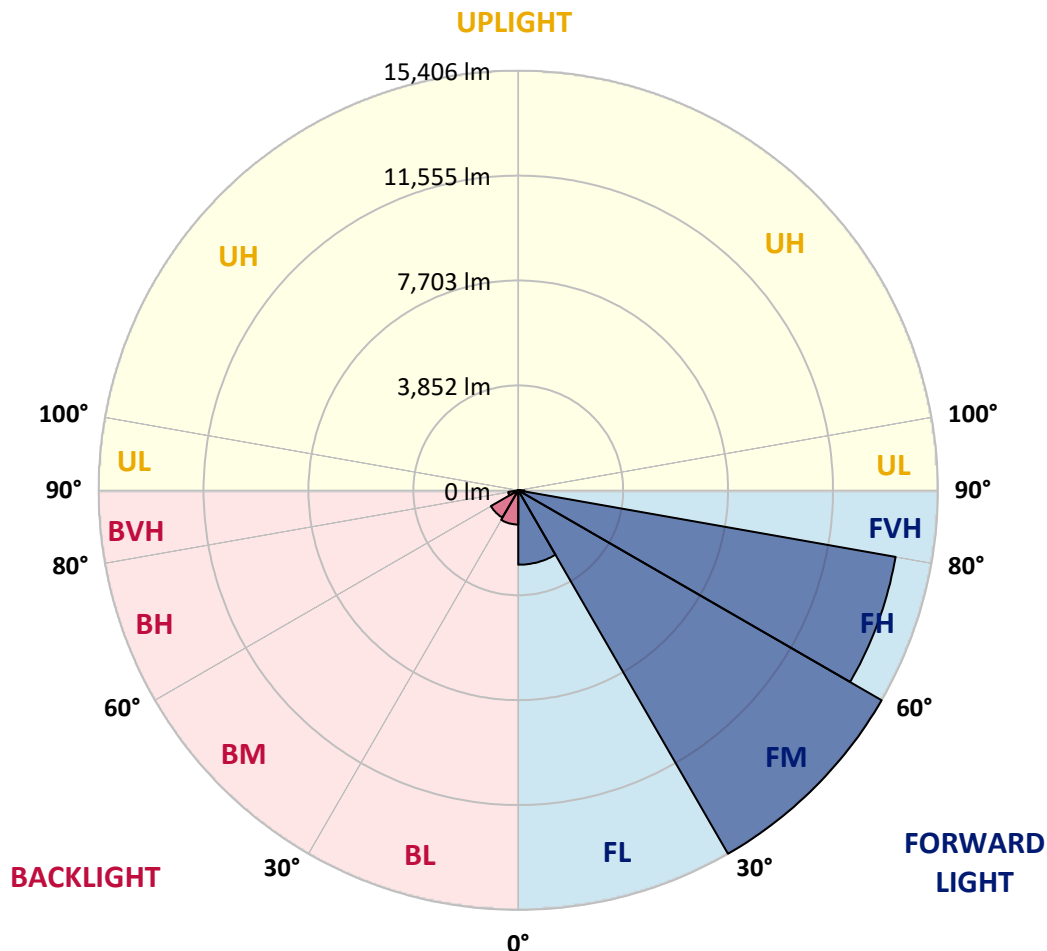


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2733.0	7.8			
FM (30°-60°)	15406.4	43.7			
FH (60°-80°)	14070.1	39.9			G5
FVH (80°-90°)	226.7	0.6			G3/500
BL (0°-30°)	1255.3	3.6	B3/2500		
BM (30°-60°)	1156.3	3.3	B2/2500		
BH (60°-80°)	373.6	1.1	B1/500		G1/500
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6793.3	6793.3	6793.3	6793.3	6793.3	6793.3	6793.3	6793.3	6793.3	6793.3	6793.3
2.5°	6594.0	6601.9	6630.4	6643.0	6673.1	6723.7	6749.0	6750.6	6791.7	6807.5	6820.2
5°	6127.4	6174.8	6222.3	6272.9	6364.6	6486.4	6606.6	6617.7	6750.6	6848.6	6900.8
7.5°	5725.6	5768.3	5825.3	5906.0	6035.6	6227.0	6427.9	6451.6	6703.1	6926.1	7043.2
10°	5312.8	5347.6	5429.9	5548.5	5727.2	5983.5	6253.9	6293.5	6660.4	7030.5	7236.1
12.5°	4871.5	4892.1	4991.7	5162.6	5425.1	5750.9	6106.8	6159.0	6633.5	7150.7	7463.9
15°	4536.2	4545.7	4640.6	4817.8	5118.3	5542.2	5992.9	6056.2	6639.8	7294.7	7712.2
17.5°	4450.8	4455.6	4506.2	4628.0	4893.7	5355.5	5902.8	5980.3	6658.8	7435.4	7962.1
20°	4797.2	4764.0	4711.8	4692.8	4806.7	5243.2	5849.0	5936.0	6684.1	7560.4	8186.7
22.5°	5747.8	5649.7	5433.0	5143.6	4968.0	5251.1	5863.2	5950.2	6764.8	7713.8	8446.1
25°	7158.6	7022.6	6654.1	6084.7	5537.4	5478.9	5981.9	6070.4	6921.4	7897.3	8694.4
27.5°	8764.0	8629.6	8178.8	7365.8	6432.6	5929.7	6253.9	6336.2	7153.9	8060.2	8884.2
30°	10301.4	10263.4	9732.0	8808.3	7558.8	6660.4	6605.0	6674.6	7326.3	8158.2	9034.5
32.5°	11604.7	11544.6	11117.6	10219.2	8847.9	7538.2	7017.9	7038.4	7456.0	8284.8	9230.6
35°	12813.1	12738.8	12363.9	11514.5	10170.1	8610.6	7653.7	7623.6	7739.1	8539.4	9515.3
37.5°	13868.1	13936.1	13520.1	12711.9	11356.4	9725.7	8511.0	8420.8	8182.0	8953.8	9928.1
40°	14750.6	14750.6	14534.0	13860.2	12637.5	10878.7	9480.5	9361.9	8847.9	9592.8	10451.7
42.5°	15068.6	15136.6	15217.2	14836.1	13784.2	12077.6	10560.8	10437.4	9785.8	10499.1	11112.8
45°	15087.5	15195.1	15607.9	15606.3	14820.2	13268.6	11778.7	11720.2	10987.9	11663.2	11932.1
47.5°	14820.2	14954.7	15634.8	16020.7	15641.1	14377.4	13110.5	13037.7	12400.3	13089.9	12789.4
50°	14407.4	14556.1	15346.9	16183.6	16199.5	15342.2	14513.4	14404.3	13955.1	14720.6	13675.1
52.5°	13668.8	13956.6	15089.1	16221.6	16566.4	16175.7	15848.3	15800.9	15694.9	16291.2	14380.5
55°	12088.7	12408.2	14442.2	16234.2	16906.5	16914.4	17099.4	17112.1	17325.6	17759.0	14905.6
57.5°	11342.1	11522.5	13312.9	16294.4	17411.0	17752.7	18374.2	18472.3	18802.9	19152.4	15505.1
60°	10872.4	11085.9	12756.2	16212.1	18203.4	18851.9	19555.8	19589.0	19943.3	20590.2	16316.5
62.5°	10497.5	10707.9	12405.0	15895.8	19093.9	20174.2	20710.4	20713.5	20979.3	22303.1	17238.6
65°	9572.3	9749.4	11694.9	15539.9	19682.3	21482.2	22051.6	22031.1	22247.8	24109.4	18309.4
67.5°	8234.2	8370.2	10244.5	14190.7	19460.9	22671.6	24076.2	24008.2	23745.6	25670.5	18730.1
70°	6366.2	6415.2	8074.4	11826.1	17385.7	23128.7	26032.7	25997.9	24664.5	25390.5	17188.0
71°	5262.2	5423.5	7115.9	10437.4	15995.4	22706.4	26222.5	26243.0	24433.6	24628.2	16126.7
72.5°	3055.8	3193.4	5157.8	8015.9	13580.2	20944.5	25238.7	25387.4	23354.9	22401.2	13774.8
75°	654.8	700.7	1912.2	3879.8	7470.2	14679.5	19921.1	20451.0	19035.4	15239.4	8302.2
77.5°	455.5	491.9	819.3	1760.4	2469.0	7253.5	12375.0	12972.8	11372.2	5727.2	2657.2
80°	360.6	401.7	639.0	869.9	667.5	2339.3	5796.8	6162.2	3792.8	1278.0	447.6
82.5°	200.9	238.8	498.2	469.8	256.2	444.4	1622.8	1834.7	759.2	257.8	106.0
85°	58.5	71.2	321.1	341.6	109.1	85.4	276.8	343.2	143.9	68.0	47.5
87.5°	0.0	0.0	155.0	131.3	31.6	12.7	25.3	28.5	28.5	28.5	31.6
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°	6793.3	6793.3	6793.3	6793.3	6793.3	6793.3	6793.3	6793.3	6793.3	6793.3	6793.3
2.5°	6820.2	6831.2	6791.7	6739.5	6684.1	6616.1	6544.9	6489.6	6488.0	6461.1	6434.2
5°	6904.0	6897.7	6788.5	6622.4	6426.3	6222.3	6027.7	5807.9	5735.1	5645.0	5614.9
7.5°	7059.0	7014.7	6783.8	6420.0	5989.8	5562.7	5121.4	4677.0	4487.2	4316.4	4286.3
10°	7253.5	7169.7	6753.7	6116.3	5327.1	4539.4	3873.5	3269.3	3003.6	2799.6	2790.1
12.5°	7456.0	7327.9	6669.9	5657.6	4458.7	3351.6	2584.4	1989.7	1768.3	1626.0	1638.6
15°	7667.9	7476.5	6489.6	5039.2	3470.2	2274.4	1588.0	1238.4	1149.9	1113.5	1123.0
17.5°	7884.6	7579.4	6238.1	4294.2	2494.3	1467.8	1099.3	1001.2	1001.2	1009.1	1012.3
20°	8072.8	7634.7	5868.0	3459.1	1690.8	1069.2	961.7	947.4	955.3	968.0	969.6
22.5°	8259.5	7637.9	5385.6	2612.9	1183.1	936.3	915.8	909.5	914.2	928.4	930.0
25°	8411.3	7599.9	4781.4	1858.5	944.3	882.6	873.1	869.9	873.1	890.5	890.5
27.5°	8473.0	7462.3	4044.3	1306.5	846.2	822.5	819.3	822.5	827.2	839.9	841.4
30°	8479.3	7221.9	3240.8	945.8	767.1	741.8	748.1	759.2	754.5	751.3	754.5
32.5°	8495.1	6943.5	2457.9	778.2	700.7	661.1	653.2	653.2	634.2	623.2	616.9
35°	8547.3	6616.1	1782.5	699.1	632.7	586.8	556.7	522.0	485.6	466.6	461.8
37.5°	8629.6	6272.9	1276.4	646.9	572.6	520.4	463.4	401.7	349.5	335.3	335.3
40°	8779.8	5918.6	944.3	605.8	525.1	460.3	374.9	294.2	246.7	238.8	238.8
42.5°	9017.1	5545.3	752.9	569.4	484.0	398.6	286.3	213.5	178.7	174.0	172.4
45°	9263.8	5134.1	658.0	534.6	439.7	327.4	211.9	158.2	137.6	132.9	132.9
47.5°	9510.6	4696.0	612.1	501.4	397.0	254.6	158.2	125.0	115.5	115.5	117.0
50°	9719.4	4238.9	578.9	465.0	341.6	193.0	125.0	106.0	102.8	109.1	110.7
52.5°	9771.6	3789.7	537.8	419.1	273.6	147.1	102.8	93.3	93.3	93.3	93.3
55°	9739.9	3441.7	484.0	362.2	202.5	117.0	88.6	82.2	80.7	80.7	80.7
57.5°	9847.5	3236.1	387.5	281.5	145.5	94.9	77.5	72.8	69.6	68.0	68.0
60°	10064.2	3101.7	276.8	202.5	109.1	79.1	66.4	61.7	56.9	53.8	53.8
62.5°	10352.0	2984.6	205.6	150.3	83.8	63.3	55.4	50.6	44.3	41.1	41.1
65°	10573.5	2775.8	156.6	112.3	63.3	50.6	42.7	41.1	31.6	28.5	26.9
67.5°	10235.0	2317.1	126.5	82.2	47.5	39.5	33.2	31.6	19.0	15.8	15.8
70°	8778.3	1613.3	101.2	60.1	34.8	31.6	26.9	20.6	14.2	12.7	12.7
71°	7960.5	1347.6	91.7	50.6	30.1	30.1	25.3	17.4	12.7	11.1	11.1
72.5°	6613.0	956.9	77.5	39.5	26.9	31.6	26.9	15.8	12.7	11.1	9.5
75°	3838.7	400.2	53.8	26.9	20.6	38.0	34.8	14.2	9.5	7.9	7.9
77.5°	1154.6	147.1	30.1	17.4	15.8	33.2	39.5	12.7	4.7	1.6	1.6
80°	210.4	63.3	19.0	11.1	11.1	20.6	30.1	6.3	0.0	0.0	0.0
82.5°	74.3	31.6	11.1	6.3	4.7	9.5	14.2	0.0	0.0	0.0	0.0
85°	42.7	22.1	6.3	3.2	0.0	1.6	3.2	0.0	0.0	0.0	0.0
87.5°	28.5	6.3	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)