

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: P321644

Luminaire Tested: **GAN-SA0B-750-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321644  
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-SA0B-750-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5000K, 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: 43502 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

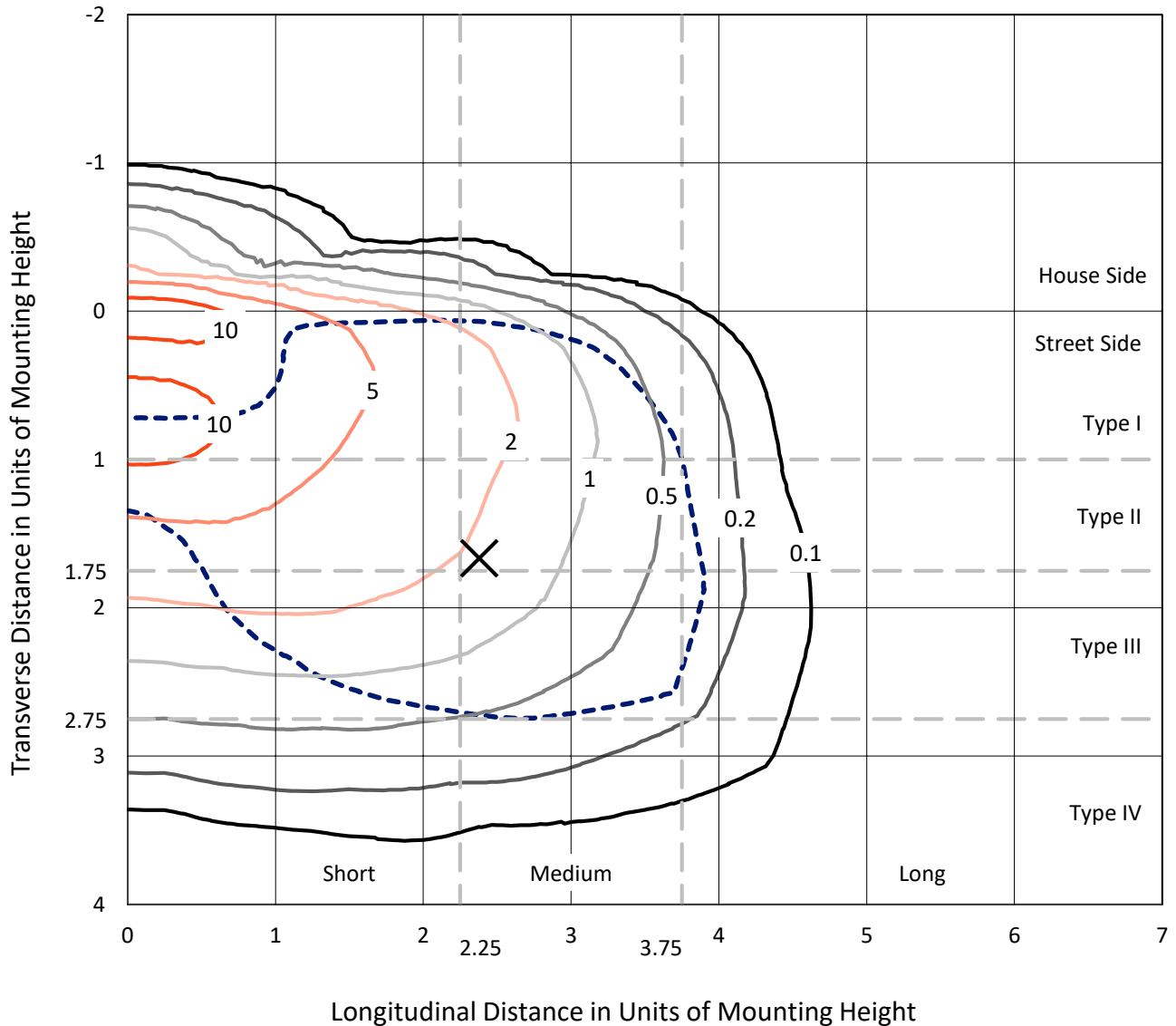
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

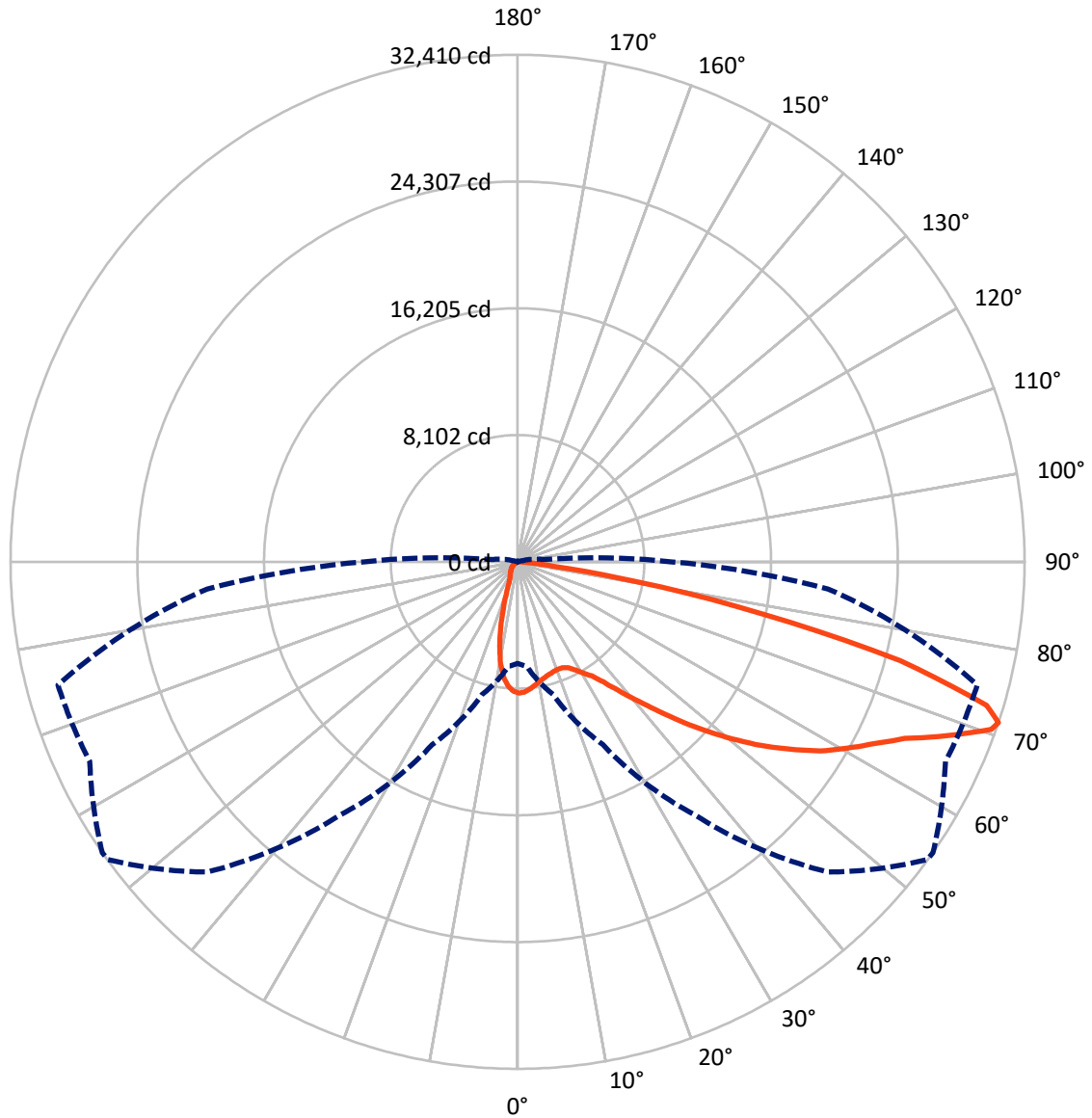
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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
<b>House Side</b>	Lumens	3444.2	0.0	3444.2
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	40057.8	0.0	40057.8
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	43502.0	0.0	43502.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	715.3	1.6
10°-20°	1614.9	3.7
20°-30°	2595.2	6.0
30°-40°	4409.3	10.1
40°-50°	6843.8	15.7
50°-60°	9201.4	21.2
60°-70°	11256.3	25.9
70°-80°	6581.3	15.1
80°-90°	284.5	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°	43502.0	100.0
0°-180°	43502.0	100.0

**Coefficient of Utilization**

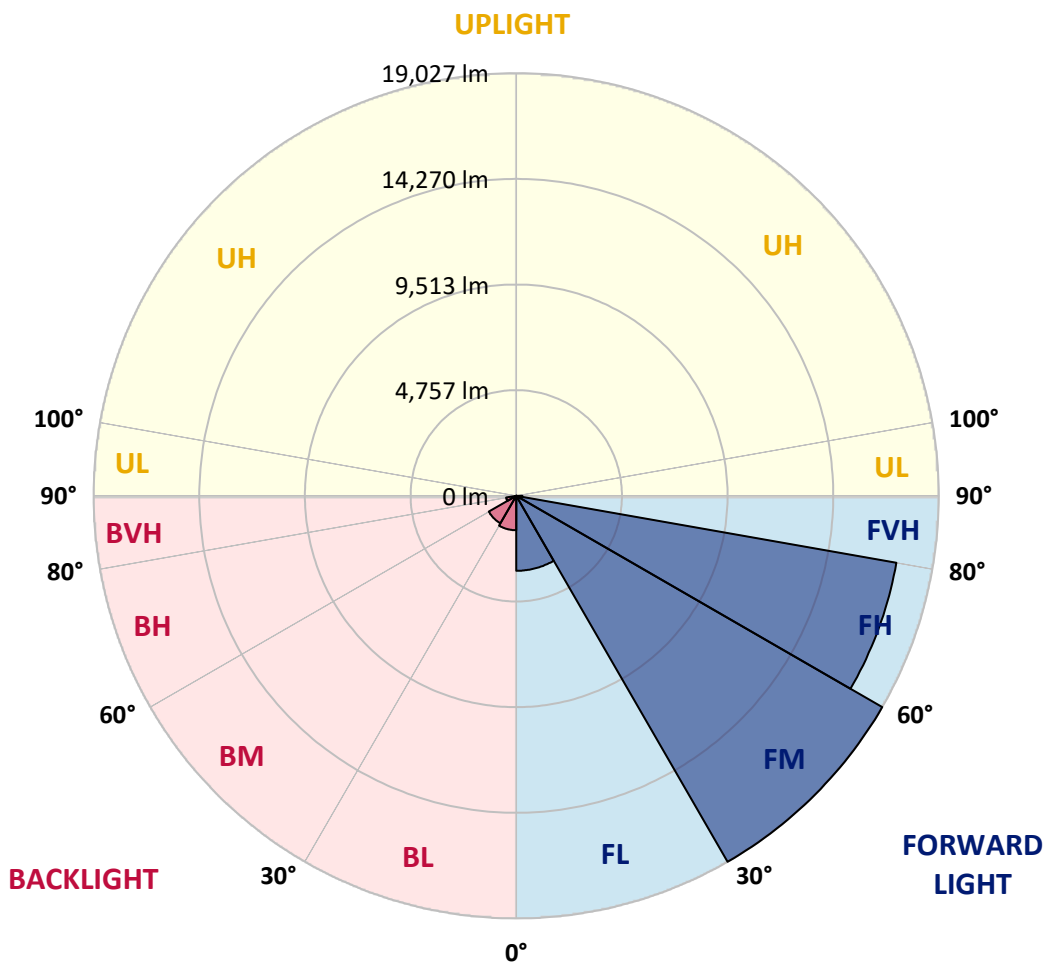


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3375.2	7.8			
FM (30°-60°)	19026.5	43.7			
FH (60°-80°)	17376.2	39.9			G5
FVH (80°-90°)	280.0	0.6			G3/500
BL (0°-30°)	1550.2	3.6	B3/2500		
BM (30°-60°)	1428.0	3.3	B2/2500		
BH (60°-80°)	461.4	1.1	B1/500		G1/500
BVH (80°-90°)	4.5	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°	8389.5	8389.5	8389.5	8389.5	8389.5	8389.5	8389.5	8389.5	8389.5	8389.5	8389.5
2.5°	8143.4	8153.2	8188.3	8204.0	8241.1	8303.6	8334.8	8336.8	8387.6	8407.1	8422.7
5°	7567.2	7625.8	7684.4	7746.9	7860.2	8010.6	8159.0	8172.7	8336.8	8457.9	8522.3
7.5°	7071.0	7123.8	7194.1	7293.7	7453.9	7690.2	7938.3	7967.6	8278.2	8553.6	8698.1
10°	6561.2	6604.2	6705.8	6852.3	7073.0	7389.4	7723.4	7772.3	8225.4	8682.5	8936.4
12.5°	6016.2	6041.6	6164.7	6375.6	6699.9	7102.3	7541.8	7606.2	8192.2	8831.0	9217.7
15°	5602.1	5613.8	5731.0	5949.8	6320.9	6844.4	7401.1	7479.3	8200.0	9008.7	9524.4
17.5°	5496.6	5502.5	5565.0	5715.4	6043.6	6613.9	7289.8	7385.5	8223.5	9182.6	9833.0
20°	5924.4	5883.4	5818.9	5795.5	5936.1	6475.3	7223.4	7330.8	8254.7	9336.9	10110.4
22.5°	7098.4	6977.3	6709.7	6352.2	6135.4	6485.0	7241.0	7348.4	8354.4	9526.4	10430.7
25°	8840.7	8672.7	8217.6	7514.4	6838.6	6766.3	7387.5	7496.8	8547.7	9752.9	10737.4
27.5°	10823.4	10657.3	10100.6	9096.6	7944.2	7323.0	7723.4	7825.0	8834.9	9954.1	10971.8
30°	12722.0	12675.1	12018.8	10878.0	9334.9	8225.4	8157.1	8243.0	9047.8	10075.2	11157.4
32.5°	14331.5	14257.3	13729.9	12620.4	10926.9	9309.5	8666.9	8692.3	9208.0	10231.5	11399.6
35°	15823.9	15732.1	15269.1	14220.2	12559.9	10633.9	9452.1	9415.0	9557.6	10546.0	11751.2
37.5°	17126.7	17210.7	16697.0	15698.8	14024.8	12011.0	10510.8	10399.5	10104.5	11057.8	12261.0
40°	18216.7	18216.7	17949.1	17117.0	15607.0	13434.9	11708.2	11561.7	10926.9	11846.9	12907.5
42.5°	18609.3	18693.3	18792.9	18322.2	17023.2	14915.6	13042.3	12890.0	12085.2	12966.1	13724.0
45°	18632.7	18765.6	19275.4	19273.4	18302.6	16386.4	14546.4	14474.1	13569.7	14403.8	14735.9
47.5°	18302.6	18468.7	19308.6	19785.2	19316.4	17755.7	16191.1	16101.2	15314.0	16165.7	15794.6
50°	17792.8	17976.4	18953.1	19986.4	20005.9	18947.2	17923.7	17788.9	17234.2	18179.6	16888.4
52.5°	16880.6	17236.1	18634.7	20033.3	20459.1	19976.6	19572.3	19513.7	19382.8	20119.2	17759.6
55°	14929.2	15323.8	17835.8	20048.9	20879.1	20888.8	21117.4	21133.0	21396.7	21931.9	18408.1
57.5°	14007.3	14229.9	16441.1	20123.1	21502.2	21924.1	22691.7	22812.8	23221.1	23652.8	19148.4
60°	13427.1	13690.8	15753.5	20021.5	22480.8	23281.6	24150.9	24191.9	24629.4	25428.3	20150.5
62.5°	12964.2	13224.0	15319.9	19630.9	23580.5	24914.6	25576.8	25580.7	25908.9	27543.8	21289.3
65°	11821.5	12040.3	14442.9	19191.4	24307.1	26530.0	27233.2	27207.8	27475.4	29774.5	22611.7
67.5°	10169.0	10337.0	12651.7	17525.2	24033.7	27998.9	29733.5	29649.5	29325.2	31702.4	23131.2
70°	7862.1	7922.7	9971.7	14605.0	21470.9	28563.4	32149.7	32106.7	30460.1	31356.7	21226.7
71°	6498.7	6697.9	8788.0	12890.0	19753.9	28041.9	32384.1	32409.5	30174.9	30415.2	19916.1
72.5°	3773.8	3943.8	6369.8	9899.4	16771.2	25865.9	31169.2	31352.8	28842.7	27664.9	17011.5
75°	808.7	865.3	2361.6	4791.5	9225.5	18128.8	24602.1	25256.4	23508.2	18820.3	10253.0
77.5°	562.6	607.5	1011.8	2174.0	3049.1	8957.9	15282.8	16021.1	14044.4	7073.0	3281.6
80°	445.4	496.1	789.1	1074.3	824.3	2889.0	7158.9	7610.1	4684.1	1578.3	552.8
82.5°	248.1	295.0	615.3	580.1	316.4	548.9	2004.1	2265.9	937.6	318.4	130.9
85°	72.3	87.9	396.5	421.9	134.8	105.5	341.8	423.9	177.8	84.0	58.6
87.5°	0.0	0.0	191.4	162.1	39.1	15.6	31.3	35.2	35.2	35.2	39.1
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°	8389.5	8389.5	8389.5	8389.5	8389.5	8389.5	8389.5	8389.5	8389.5	8389.5	8389.5
2.5°	8422.7	8436.4	8387.6	8323.1	8254.7	8170.7	8082.8	8014.5	8012.5	7979.3	7946.1
5°	8526.2	8518.4	8383.7	8178.6	7936.3	7684.4	7444.1	7172.6	7082.7	6971.4	6934.3
7.5°	8717.7	8663.0	8377.8	7928.5	7397.2	6869.8	6324.9	5776.0	5541.6	5330.6	5293.5
10°	8957.9	8854.4	8340.7	7553.5	6578.8	5606.0	4783.7	4037.5	3709.4	3457.4	3445.7
12.5°	9208.0	9049.7	8237.2	6987.0	5506.4	4139.1	3191.7	2457.3	2183.8	2008.0	2023.6
15°	9469.7	9233.4	8014.5	6223.3	4285.6	2808.9	1961.1	1529.5	1420.1	1375.1	1386.9
17.5°	9737.3	9360.3	7703.9	5303.3	3080.4	1812.7	1357.6	1236.5	1236.5	1246.2	1250.1
20°	9969.8	9428.7	7246.8	4271.9	2088.1	1320.4	1187.6	1170.0	1179.8	1195.4	1197.4
22.5°	10200.2	9432.6	6651.1	3226.9	1461.1	1156.4	1131.0	1123.2	1129.0	1146.6	1148.6
25°	10387.8	9385.7	5904.9	2295.2	1166.1	1090.0	1078.2	1074.3	1078.2	1099.7	1099.7
27.5°	10463.9	9215.8	4994.6	1613.4	1045.0	1015.7	1011.8	1015.7	1021.6	1037.2	1039.2
30°	10471.8	8918.9	4002.4	1168.1	947.4	916.1	923.9	937.6	931.7	927.8	931.7
32.5°	10491.3	8575.1	3035.5	961.0	865.3	816.5	806.7	806.7	783.3	769.6	761.8
35°	10555.8	8170.7	2201.4	863.4	781.3	724.7	687.6	644.6	599.7	576.2	570.4
37.5°	10657.3	7746.9	1576.3	798.9	707.1	642.6	572.3	496.1	431.7	414.1	414.1
40°	10842.9	7309.3	1166.1	748.1	648.5	568.4	462.9	363.3	304.7	295.0	295.0
42.5°	11135.9	6848.3	929.8	703.2	597.7	492.2	353.6	263.7	220.7	214.9	212.9
45°	11440.6	6340.5	812.6	660.2	543.0	404.3	261.7	195.3	169.9	164.1	164.1
47.5°	11745.3	5799.4	755.9	619.2	490.3	314.5	195.3	154.3	142.6	142.6	144.5
50°	12003.2	5234.9	714.9	574.3	421.9	238.3	154.3	130.9	127.0	134.8	136.7
52.5°	12067.6	4680.2	664.1	517.6	337.9	181.7	127.0	115.2	115.2	115.2	115.2
55°	12028.6	4250.4	597.7	447.3	250.0	144.5	109.4	101.6	99.6	99.6	99.6
57.5°	12161.4	3996.5	478.6	347.7	179.7	117.2	95.7	89.9	85.9	84.0	84.0
60°	12429.0	3830.5	341.8	250.0	134.8	97.7	82.0	76.2	70.3	66.4	66.4
62.5°	12784.5	3685.9	253.9	185.6	103.5	78.1	68.4	62.5	54.7	50.8	50.8
65°	13058.0	3428.1	193.4	138.7	78.1	62.5	52.7	50.8	39.1	35.2	33.2
67.5°	12639.9	2861.6	156.3	101.6	58.6	48.8	41.0	39.1	23.4	19.5	19.5
70°	10840.9	1992.4	125.0	74.2	43.0	39.1	33.2	25.4	17.6	15.6	15.6
71°	9831.1	1664.2	113.3	62.5	37.1	37.1	31.3	21.5	15.6	13.7	13.7
72.5°	8166.8	1181.8	95.7	48.8	33.2	39.1	33.2	19.5	15.6	13.7	11.7
75°	4740.7	494.2	66.4	33.2	25.4	46.9	43.0	17.6	11.7	9.8	9.8
77.5°	1425.9	181.7	37.1	21.5	19.5	41.0	48.8	15.6	5.9	2.0	2.0
80°	259.8	78.1	23.4	13.7	13.7	25.4	37.1	7.8	0.0	0.0	0.0
82.5°	91.8	39.1	13.7	7.8	5.9	11.7	17.6	0.0	0.0	0.0	0.0
85°	52.7	27.3	7.8	3.9	0.0	2.0	3.9	0.0	0.0	0.0	0.0
87.5°	35.2	7.8	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)