

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: P323218

Luminaire Tested: **GAN-SA4D-740-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323218  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4D-740-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25925 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

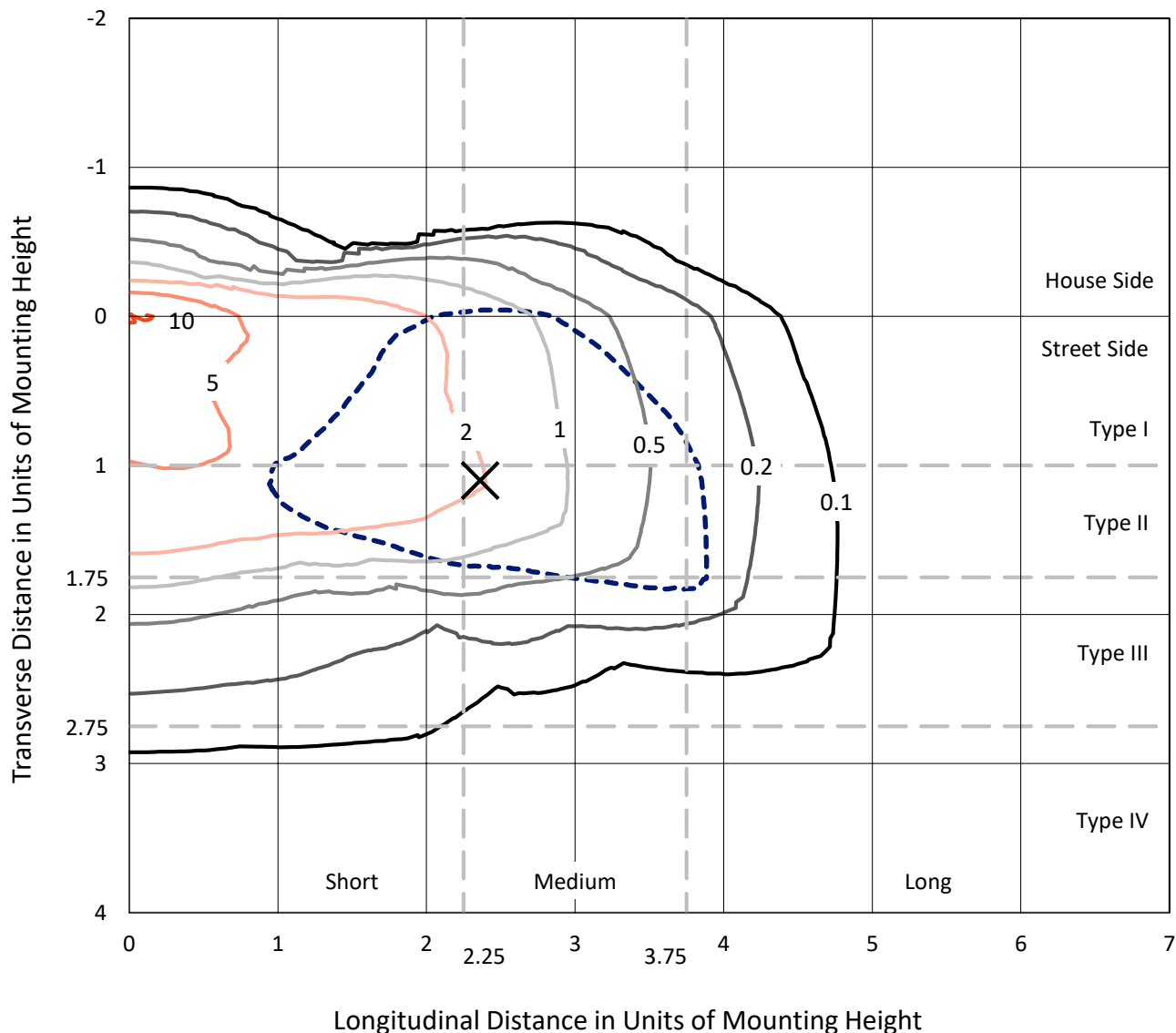
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

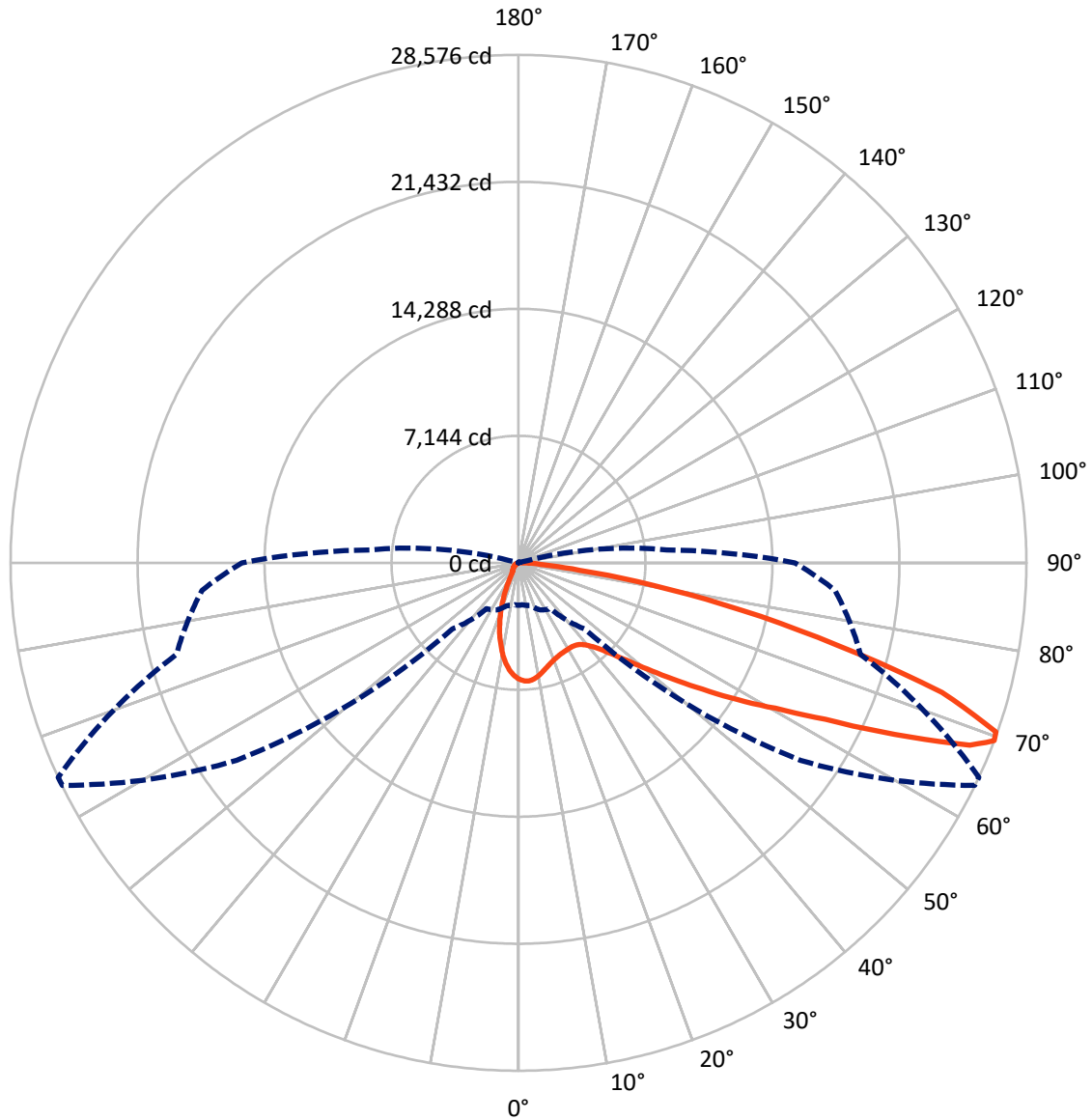
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3056.0	0.0	3056.0
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	22869.1	0.0	22869.1
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	25925.0	0.0	25925.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	547.8	2.1
10°-20°	1199.2	4.6
20°-30°	1661.0	6.4
30°-40°	2315.9	8.9
40°-50°	3599.7	13.9
50°-60°	5778.9	22.3
60°-70°	6536.8	25.2
70°-80°	3839.2	14.8
80°-90°	446.6	1.7
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°	25925.0	100.0
0°-180°	25925.0	100.0

**Coefficient of Utilization**

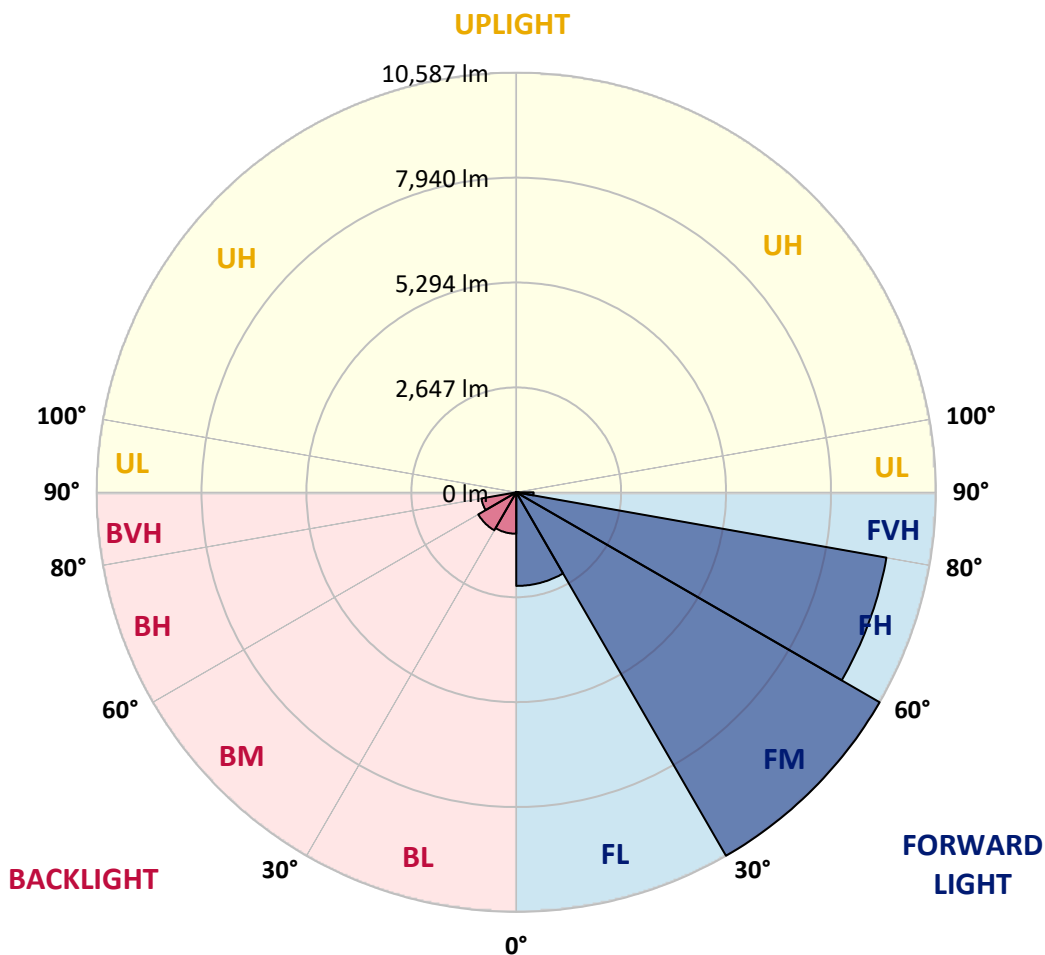


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2362.4	9.1			
FM (30°-60°)	10587.0	40.8			
FH (60°-80°)	9483.1	36.6			G4/12000
FVH (80°-90°)	436.5	1.7			G3/500
BL (0°-30°)	1045.6	4.0	B3/2500		
BM (30°-60°)	1107.4	4.3	B2/2500		
BH (60°-80°)	892.9	3.4	B2/1000		G2/1000
BVH (80°-90°)	10.0	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6551.3	6551.3	6551.3	6551.3	6551.3	6551.3	6551.3	6551.3	6551.3	6551.3	6551.3
2.5°	6609.4	6593.0	6606.1	6634.7	6648.9	6648.9	6659.9	6646.7	6651.1	6619.3	6573.2
5°	6195.9	6170.6	6206.8	6286.9	6385.6	6470.1	6595.2	6661.0	6667.6	6668.7	6614.9
7.5°	5750.5	5727.4	5781.2	5875.5	6002.8	6159.7	6378.0	6568.8	6579.8	6682.9	6643.4
10°	5388.5	5372.0	5434.5	5535.5	5684.7	5860.2	6127.9	6393.3	6425.1	6653.3	6639.1
12.5°	5101.1	5087.9	5147.1	5263.4	5415.9	5610.1	5889.8	6198.1	6240.8	6586.4	6617.1
15°	4891.5	4889.3	4938.7	5050.6	5219.5	5400.5	5686.9	6017.1	6066.4	6514.0	6613.8
17.5°	4781.8	4785.1	4821.3	4916.8	5061.6	5241.5	5515.7	5864.6	5918.3	6449.3	6630.3
20°	4770.9	4774.2	4793.9	4847.6	4965.0	5124.1	5376.4	5736.2	5792.2	6401.0	6656.6
22.5°	4867.4	4865.2	4870.7	4865.2	4931.0	5051.7	5284.3	5637.5	5702.2	6369.2	6677.4
25°	5052.8	5049.5	5047.3	5006.7	4962.8	5027.6	5245.9	5581.5	5643.0	6346.2	6689.5
27.5°	5310.6	5308.4	5305.1	5238.2	5106.5	5066.0	5250.2	5560.7	5612.3	6327.5	6687.3
30°	5649.6	5664.9	5660.5	5567.3	5362.1	5183.3	5296.3	5549.7	5594.7	6291.3	6664.3
32.5°	6047.8	6078.5	6102.6	6002.8	5746.1	5415.9	5402.7	5561.8	5594.7	6263.9	6622.6
35°	6461.3	6500.8	6589.7	6554.6	6216.7	5765.8	5585.9	5634.2	5661.6	6279.2	6602.9
37.5°	6868.3	6915.5	7108.6	7210.6	6833.2	6228.8	5871.2	5813.0	5827.3	6372.5	6624.8
40°	7341.1	7412.4	7705.3	7869.9	7569.3	6848.6	6297.9	6120.2	6125.7	6577.6	6726.8
42.5°	7962.0	8035.5	8352.6	8610.4	8398.6	7631.8	6877.1	6589.7	6584.2	6961.6	6967.1
45°	8719.0	8795.8	9123.8	9410.1	9314.6	8559.9	7618.7	7275.3	7268.7	7567.1	7422.3
47.5°	9576.8	9652.5	9945.4	10240.5	10343.6	9643.7	8563.2	8211.1	8195.7	8408.5	8125.5
50°	10312.9	10362.3	10632.1	11029.3	11494.4	10975.5	9738.1	9399.1	9382.7	9526.4	9157.8
52.5°	10580.6	10609.1	10883.4	11439.5	12600.2	12779.0	11281.6	10845.0	10832.9	10895.4	10532.3
55°	10038.7	10090.2	10427.0	11251.9	13199.1	14817.2	13229.8	12635.3	12544.2	12409.3	11969.4
57.5°	8562.1	8644.4	9006.4	10103.4	12919.4	16434.2	16093.0	14660.3	14526.5	13701.5	13137.7
60°	6415.3	6516.2	6816.8	8000.4	11426.4	17010.1	19221.7	16916.9	16615.2	14730.5	14211.7
62.5°	4402.3	4452.7	4656.8	5428.0	8415.1	16066.7	21839.1	19939.1	19388.4	15849.5	15373.4
65°	3362.3	3379.9	3463.2	3728.7	5011.1	13051.0	22880.2	23926.7	23260.8	17187.8	16579.0
67.5°	2709.6	2695.3	2810.5	3190.1	3355.7	7962.0	21665.8	27699.3	27387.7	18977.0	17792.3
69°	2389.3	2369.5	2486.9	2927.9	3151.7	5263.4	19368.7	28556.0	28575.8	19921.5	17875.6
70°	2150.1	2163.3	2279.6	2772.1	3082.6	4131.3	17174.7	28337.7	28493.5	20274.8	17375.4
72.5°	1436.0	1471.1	1704.7	2301.5	2964.1	3126.5	10370.0	24317.2	24916.2	19479.5	14907.2
75°	809.6	835.9	1113.5	1735.5	2793.0	2977.3	5477.3	17915.1	18494.3	16289.4	11495.5
77.5°	397.1	411.4	629.7	1120.0	2335.5	2836.8	3106.7	12169.0	12830.5	10632.1	6501.9
80°	167.8	175.5	314.8	691.1	1669.6	2707.4	2307.0	7489.2	7571.5	4165.3	1732.2
82.5°	64.7	66.9	132.7	431.1	1060.8	2110.6	1929.6	3551.0	3465.4	784.4	394.9
85°	7.7	8.8	48.3	258.9	590.2	1086.0	1567.6	1530.3	1416.2	155.8	202.9
87.5°	0.0	0.0	3.3	79.0	175.5	509.0	815.1	635.2	572.6	50.5	105.3
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°	6551.3	6551.3	6551.3	6551.3	6551.3	6551.3	6551.3	6551.3	6551.3	6551.3	6551.3
2.5°	6534.8	6523.9	6464.6	6379.1	6297.9	6197.0	6100.4	6042.3	5996.2	5965.5	6001.7
5°	6552.4	6504.1	6324.2	6093.8	5867.9	5613.4	5376.4	5175.7	5096.7	5008.9	5048.4
7.5°	6546.9	6455.9	6132.2	5722.0	5307.3	4878.4	4472.5	4159.8	3997.5	3838.4	3879.0
10°	6519.5	6365.9	5875.5	5267.8	4646.9	4030.4	3454.5	3016.8	2772.1	2550.5	2582.3
12.5°	6459.1	6245.2	5572.8	4747.8	3917.4	3104.5	2429.9	1869.3	1568.7	1436.0	1452.4
15°	6422.9	6127.9	5252.4	4221.3	3138.5	2162.2	1485.3	1104.7	967.6	923.7	929.2
17.5°	6405.4	6014.9	4921.1	3619.0	2342.1	1376.7	959.9	846.9	817.3	809.6	811.8
20°	6387.8	5900.8	4580.0	3023.3	1613.7	925.9	788.7	755.8	744.9	735.0	737.2
22.5°	6358.2	5791.1	4213.6	2420.0	1088.2	751.4	710.9	679.0	656.0	643.9	646.1
25°	6322.0	5675.9	3839.5	1802.4	794.2	670.3	631.9	586.9	559.5	537.5	538.6
27.5°	6263.9	5534.4	3453.4	1312.0	667.0	600.1	548.5	499.1	453.1	427.8	427.8
30°	6182.7	5374.2	3024.4	939.0	597.9	530.9	468.4	407.0	357.6	334.6	332.4
32.5°	6092.7	5207.5	2591.1	712.0	543.0	466.2	394.9	330.2	286.3	267.7	266.6
35°	6016.0	5027.6	2158.9	596.8	488.2	403.7	325.8	271.0	235.9	220.5	219.4
37.5°	5966.6	4847.6	1737.7	533.1	438.8	345.6	273.2	223.8	198.6	186.5	185.4
40°	5958.9	4713.8	1352.6	484.9	392.7	294.0	228.2	189.8	166.7	153.6	152.5
42.5°	6058.7	4637.0	1037.8	444.3	345.6	249.0	194.2	162.4	138.2	125.1	124.0
45°	6320.9	4661.2	798.6	408.1	298.4	210.6	164.6	134.9	113.0	103.1	100.9
47.5°	6799.2	4827.9	635.2	371.9	253.4	178.8	140.4	111.9	93.2	83.4	82.3
50°	7650.5	5219.5	530.9	332.4	211.7	152.5	116.3	91.1	75.7	66.9	65.8
52.5°	8780.4	5917.2	473.9	294.0	175.5	129.4	95.4	72.4	59.2	52.7	51.6
55°	10026.6	6761.9	436.6	252.3	143.7	107.5	75.7	57.0	46.1	40.6	38.4
57.5°	11243.2	7493.6	401.5	211.7	119.6	87.8	60.3	45.0	36.2	30.7	29.6
60°	12361.0	8166.1	360.9	170.0	97.6	69.1	47.2	35.1	28.5	23.0	23.0
62.5°	13557.8	8686.1	305.0	132.7	80.1	52.7	38.4	31.8	23.0	19.7	18.6
65°	14826.0	9072.2	239.1	103.1	62.5	39.5	31.8	32.9	18.6	14.3	13.2
67.5°	15762.8	8995.4	176.6	81.2	48.3	30.7	30.7	35.1	16.5	11.0	9.9
69°	15556.6	8371.2	148.1	70.2	41.7	26.3	28.5	35.1	15.4	9.9	8.8
70°	14958.7	7680.1	130.5	62.5	37.3	24.1	27.4	34.0	14.3	9.9	8.8
72.5°	12457.5	5784.5	102.0	47.2	29.6	19.7	23.0	29.6	14.3	9.9	7.7
75°	9370.6	3702.4	77.9	34.0	21.9	15.4	17.6	21.9	14.3	8.8	7.7
77.5°	5098.9	1335.1	55.9	23.0	15.4	12.1	12.1	16.5	13.2	6.6	4.4
80°	1310.9	335.7	35.1	15.4	12.1	8.8	7.7	11.0	7.7	1.1	0.0
82.5°	323.6	75.7	18.6	11.0	8.8	3.3	3.3	5.5	3.3	0.0	0.0
85°	177.7	37.3	12.1	7.7	4.4	0.0	0.0	1.1	0.0	0.0	0.0
87.5°	91.1	11.0	3.3	2.2	1.1	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)