

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: P484309

Luminaire Tested: **IFLD-L-SA8A-727-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484309  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-727-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

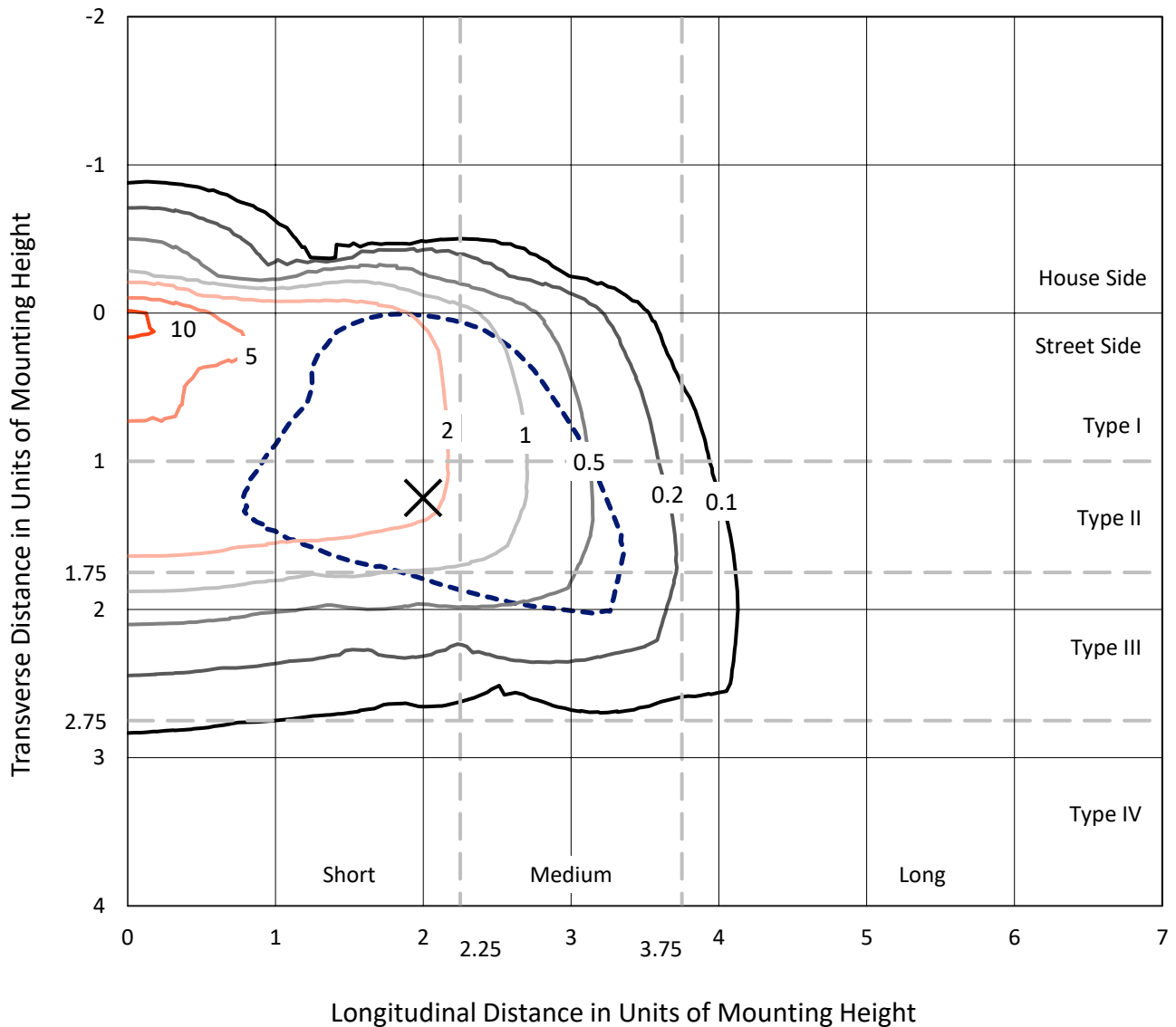
Lumens per Lamp: N/A  
Luminaire Lumens: 23958.6 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8  
Input Voltage (V): 120  
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

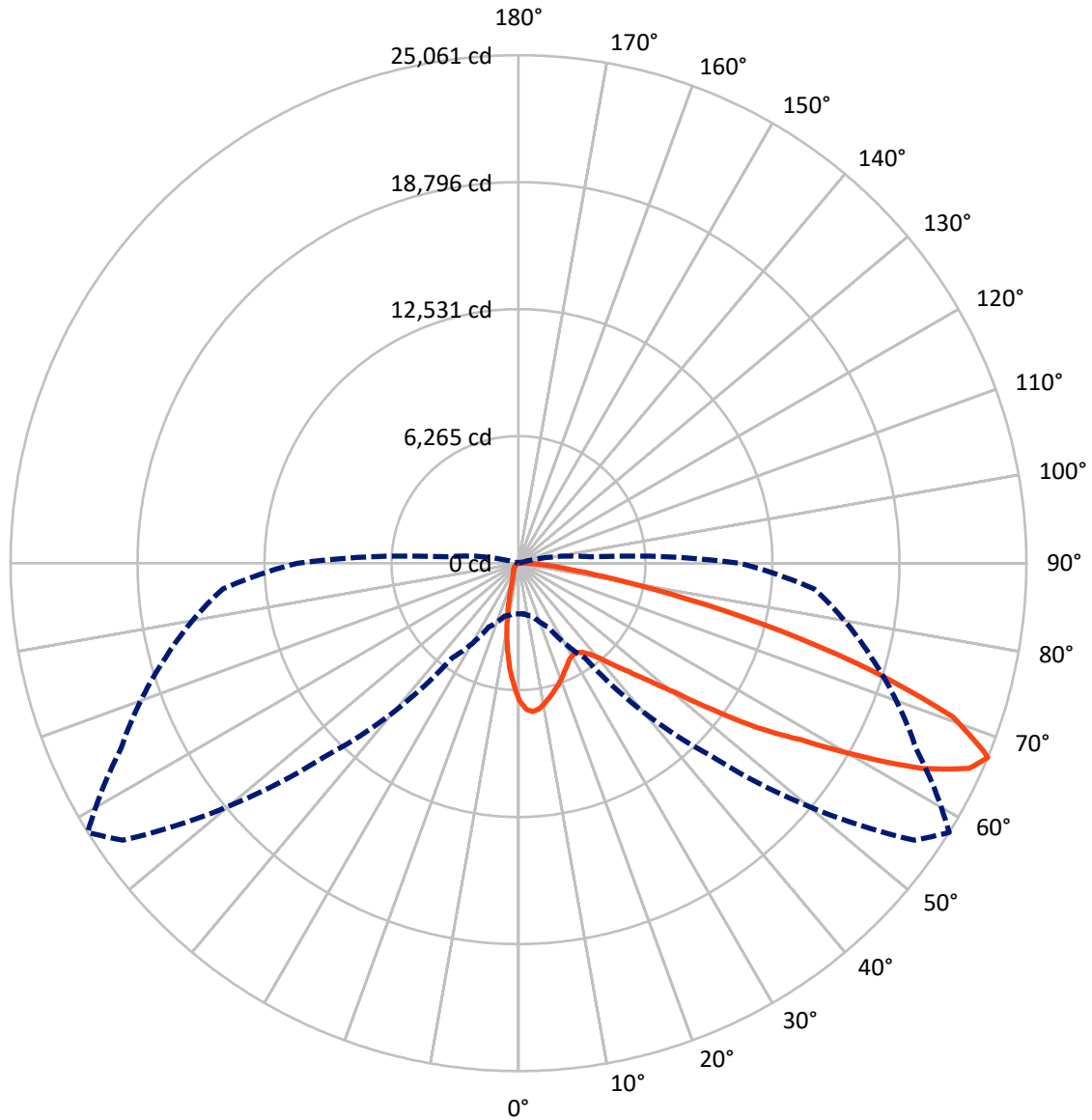
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1980.3	0.0	1980.3
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	21978.3	0.0	21978.3
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	23958.6	0.0	23958.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	538.6	2.2
10°-20°	1117.1	4.7
20°-30°	1482.2	6.2
30°-40°	2053.8	8.6
40°-50°	3351.2	14.0
50°-60°	5890.4	24.6
60°-70°	6524.1	27.2
70°-80°	2703.6	11.3
80°-90°	297.6	1.2
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°	23958.6	100.0
0°-180°	23958.6	100.0

**Coefficient of Utilization**



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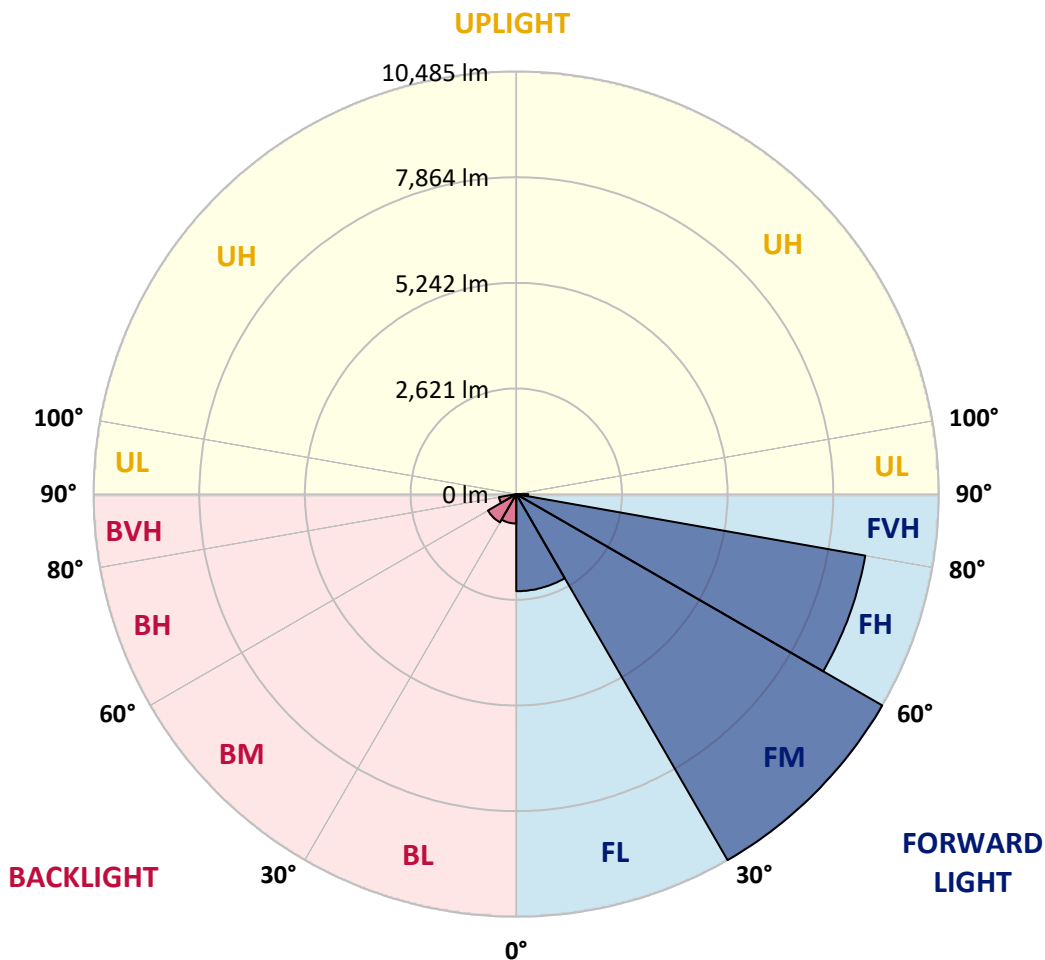
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2408.5	10.1			
FM (30°-60°)	10484.8	43.8			
FH (60°-80°)	8792.3	36.7			G4/12000
FVH (80°-90°)	292.7	1.2			G3/500
BL (0°-30°)	729.4	3.0	B2/1000		
BM (30°-60°)	810.7	3.4	B1/1000		
BH (60°-80°)	435.4	1.8	B1/500		G1/500
BVH (80°-90°)	4.9	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6787.8	6787.8	6787.8	6787.8	6787.8	6787.8	6787.8	6787.8	6787.8	6787.8	6787.8
2.5°	7385.8	7411.2	7433.5	7392.1	7427.1	7376.2	7245.8	7217.2	7194.9	7000.9	6889.6
5°	7382.6	7354.0	7376.2	7395.3	7347.6	7385.8	7354.0	7357.2	7271.3	7096.3	6784.6
7.5°	6889.6	6876.9	6889.6	6981.8	7086.8	7169.5	7217.2	7264.9	7207.7	6946.8	6644.7
10°	6224.8	6288.4	6323.4	6488.8	6651.0	6803.7	6953.2	7042.3	7026.4	6921.4	6492.0
12.5°	5760.4	5741.3	5868.6	5976.7	6138.9	6447.5	6708.3	6791.0	6886.4	6740.1	6291.6
15°	5331.0	5280.1	5356.4	5544.1	5820.8	6065.8	6431.5	6555.6	6676.5	6714.6	6183.4
17.5°	4920.7	4946.1	5025.6	5194.2	5455.0	5798.6	6142.1	6320.2	6609.7	6558.8	6021.2
20°	4723.5	4777.5	4806.2	4892.0	5073.4	5416.9	5929.0	6072.1	6380.7	6555.6	5862.2
22.5°	4733.0	4733.0	4666.2	4717.1	4882.5	5149.7	5639.5	5798.6	6288.4	6390.2	5719.1
25°	4834.8	4771.2	4774.4	4713.9	4783.9	4930.2	5378.7	5572.7	6100.7	6406.1	5642.7
27.5°	4911.1	4898.4	4879.3	4863.4	4774.4	4796.6	5206.9	5366.0	6027.6	6387.0	5525.0
30°	5187.9	5130.6	5111.5	5076.5	4958.8	4850.7	5070.2	5270.6	5970.3	6431.5	5458.2
32.5°	5420.1	5429.6	5445.5	5343.7	5241.9	4974.7	5108.3	5267.4	5929.0	6533.3	5525.0
35°	5712.7	5754.0	5760.4	5728.6	5620.4	5356.4	5267.4	5404.2	5999.0	6714.6	5531.4
37.5°	6158.0	6113.5	6234.3	6247.1	6170.7	5820.8	5636.4	5690.4	6205.7	7004.1	5773.1
40°	6447.5	6501.5	6727.4	6867.3	6736.9	6418.8	6170.7	6161.2	6504.7	7458.9	6072.1
42.5°	6768.7	6889.6	7137.7	7439.9	7424.0	7128.1	6876.9	6835.5	7035.9	8117.4	6546.1
45°	7207.7	7315.8	7662.5	8117.4	8365.5	8114.2	7735.7	7653.0	7681.6	9014.3	7354.0
47.5°	7936.1	7907.4	8406.8	8855.3	9262.4	9068.4	8906.2	8664.5	8642.2	10070.4	8470.4
50°	8759.9	8753.5	9198.8	9707.8	10178.5	10557.0	10286.7	10022.7	10029.0	11504.9	9784.1
52.5°	9542.4	9666.4	10146.7	10652.5	11460.4	11867.5	12128.3	12023.4	11517.6	12786.8	11190.0
55°	9955.9	10064.0	10541.1	11412.7	12688.2	13734.6	14440.8	14351.7	13375.2	14230.8	12576.8
57.5°	9564.6	9637.8	10283.5	11425.4	13547.0	15881.7	16559.2	16447.8	15296.4	15334.6	14253.1
60°	7926.5	8041.0	9001.6	10340.7	13213.0	17535.7	19476.0	19307.4	17045.8	16730.9	15331.4
62.5°	5490.0	5566.4	6355.2	8021.9	11629.0	18111.4	22230.5	22322.8	18890.7	17818.8	15652.6
65°	3556.1	3549.8	4001.4	5130.6	8241.4	16368.3	23859.1	24431.6	20671.9	17984.2	15554.0
67°	2512.8	2503.3	2716.4	3479.8	5706.3	13486.5	23830.4	25061.4	21638.9	18031.9	14641.2
67.5°	2318.8	2309.3	2512.8	3199.9	5149.7	12541.8	23474.2	24737.0	21979.2	17965.1	14240.4
70°	1800.3	1774.9	1851.2	2204.3	2999.5	8111.0	20089.8	22723.5	21273.1	16298.3	11371.3
72.5°	1300.9	1329.6	1450.4	1809.9	2353.8	4364.0	15312.3	18375.4	17767.9	12284.2	7226.7
75°	906.5	932.0	1126.0	1475.9	2159.8	2646.4	10353.5	13327.5	12376.4	6781.4	3079.0
77.5°	473.9	505.7	718.9	1180.1	1962.5	2048.4	6186.6	8451.3	6558.8	2414.2	849.3
80°	219.5	235.4	359.4	836.5	1641.3	1800.3	3607.0	4701.2	2624.1	540.7	292.6
82.5°	95.4	105.0	165.4	480.3	1164.2	1574.5	2232.9	2465.1	951.1	174.9	181.3
85°	19.1	22.3	63.6	254.5	563.0	954.2	1568.1	1463.2	477.1	85.9	143.1
87.5°	0.0	0.0	15.9	73.2	152.7	283.1	664.8	664.8	146.3	44.5	54.1
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°	6787.8	6787.8	6787.8	6787.8	6787.8	6787.8	6787.8	6787.8	6787.8	6787.8	6787.8
2.5°	6791.0	6676.5	6425.2	6193.0	6027.6	5839.9	5591.8	5480.5	5439.1	5381.9	5296.0
5°	6612.9	6472.9	6043.5	5610.9	5137.0	4777.5	4395.8	4173.2	4004.6	3899.6	3864.7
7.5°	6361.6	6075.3	5496.4	4803.0	4189.1	3654.7	3075.8	2684.6	2433.3	2331.5	2236.1
10°	6161.2	5789.0	4908.0	4046.0	3228.5	2446.0	1794.0	1450.4	1189.6	1091.0	1078.3
12.5°	5900.4	5455.0	4357.7	3273.0	2245.6	1456.8	992.4	862.0	788.8	776.1	766.6
15°	5684.1	5152.9	3836.0	2535.1	1453.6	909.7	772.9	741.1	722.0	715.7	718.9
17.5°	5537.7	4828.4	3301.7	1844.9	957.4	744.3	712.5	693.4	683.9	680.7	671.1
20°	5248.3	4554.9	2773.6	1291.4	747.5	687.0	661.6	645.7	636.2	633.0	629.8
22.5°	5082.9	4208.2	2245.6	900.2	664.8	623.4	604.3	591.6	575.7	566.2	563.0
25°	4917.5	3953.7	1774.9	699.8	604.3	575.7	547.1	531.2	505.7	493.0	489.8
27.5°	4723.5	3702.4	1367.7	607.5	543.9	515.3	486.7	461.2	429.4	416.7	410.3
30°	4612.1	3457.5	1030.6	543.9	499.4	461.2	426.2	394.4	359.4	337.2	330.8
32.5°	4554.9	3234.9	772.9	496.2	451.7	410.3	365.8	327.6	295.8	276.7	273.5
35°	4484.9	3018.6	607.5	451.7	407.1	362.6	318.1	279.9	248.1	232.2	225.8
37.5°	4558.1	2891.3	505.7	416.7	372.2	321.3	273.5	235.4	209.9	194.0	190.8
40°	4758.5	2786.4	438.9	384.9	337.2	283.1	238.6	200.4	178.1	165.4	159.0
42.5°	5067.0	2786.4	397.6	353.1	305.4	248.1	203.6	174.9	152.7	140.0	136.8
45°	5626.8	2872.2	362.6	321.3	267.2	213.1	174.9	146.3	124.1	111.3	108.1
47.5°	6412.5	3069.5	334.0	292.6	238.6	187.7	152.7	124.1	101.8	89.1	85.9
50°	7468.5	3517.9	305.4	257.6	213.1	162.2	127.2	98.6	79.5	66.8	63.6
52.5°	8785.3	4154.1	276.7	238.6	181.3	136.8	101.8	79.5	60.4	50.9	47.7
55°	10178.5	4933.4	241.7	213.1	155.9	114.5	82.7	60.4	44.5	38.2	35.0
57.5°	11581.2	5534.6	213.1	184.5	127.2	92.2	66.8	47.7	31.8	25.4	22.3
60°	12325.5	5591.8	184.5	152.7	101.8	73.2	50.9	35.0	22.3	15.9	12.7
62.5°	12440.1	5082.9	159.0	124.1	82.7	57.3	35.0	25.4	12.7	6.4	6.4
65°	11851.6	4236.8	136.8	98.6	63.6	41.4	25.4	15.9	6.4	3.2	0.0
67°	10897.4	3549.8	117.7	82.7	50.9	31.8	19.1	9.5	3.2	0.0	0.0
67.5°	10528.4	3358.9	111.3	76.3	47.7	28.6	15.9	9.5	3.2	0.0	0.0
70°	8171.4	2398.3	82.7	54.1	35.0	22.3	12.7	6.4	0.0	0.0	0.0
72.5°	5006.6	1402.7	63.6	38.2	25.4	15.9	9.5	3.2	0.0	0.0	0.0
75°	2099.3	483.5	54.1	28.6	19.1	9.5	6.4	3.2	0.0	0.0	0.0
77.5°	547.1	181.3	38.2	19.1	12.7	9.5	6.4	3.2	0.0	0.0	0.0
80°	222.7	82.7	25.4	12.7	12.7	9.5	6.4	3.2	0.0	0.0	0.0
82.5°	146.3	38.2	15.9	12.7	9.5	6.4	3.2	0.0	0.0	0.0	0.0
85°	111.3	22.3	9.5	9.5	6.4	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	47.7	12.7	9.5	6.4	6.4	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)