

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: P484458

Luminaire Tested: **IFLD-M-SA4D-750-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484458  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-750-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

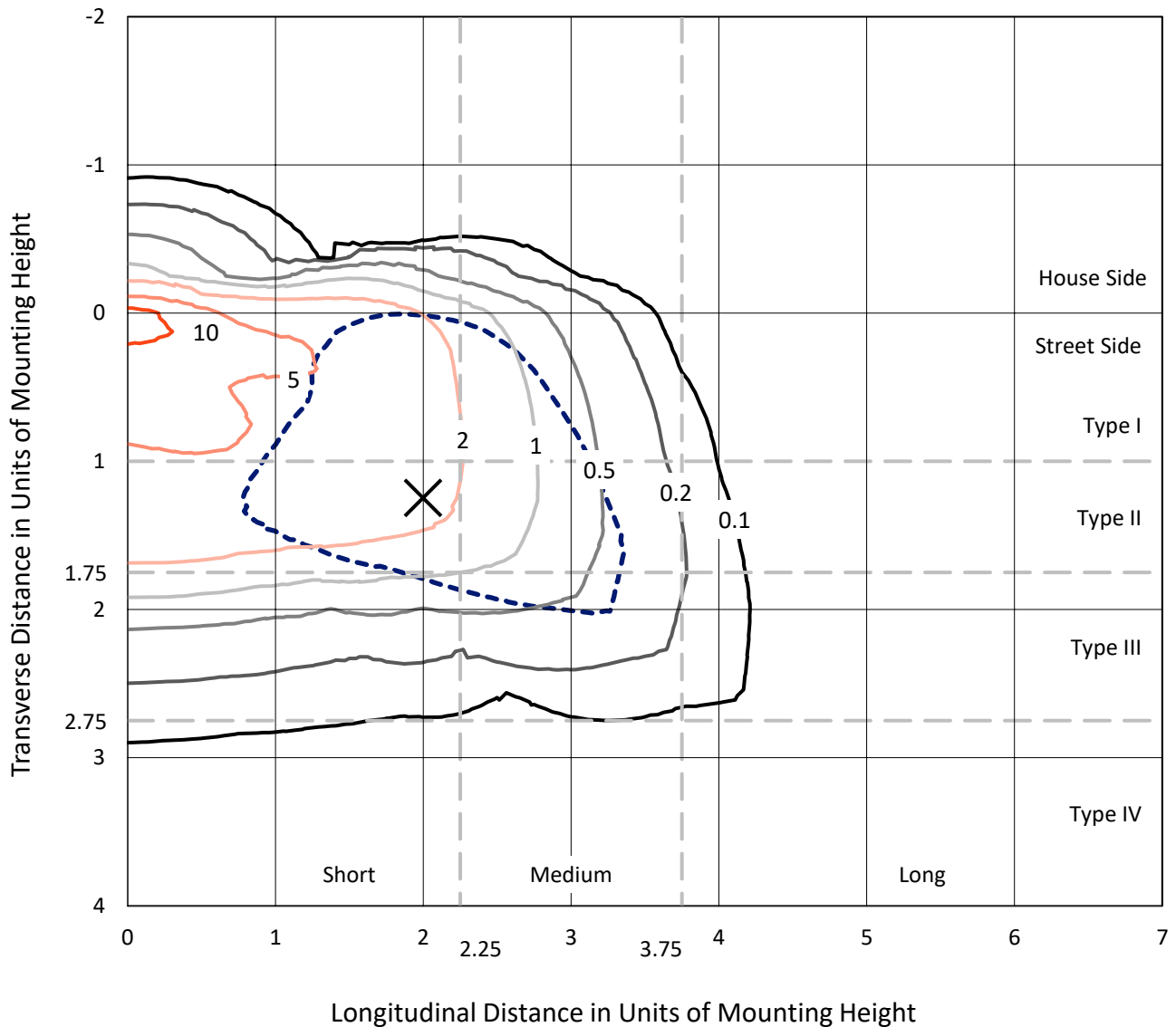
Lumens per Lamp: N/A  
Luminaire Lumens: 26761.7 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7  
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

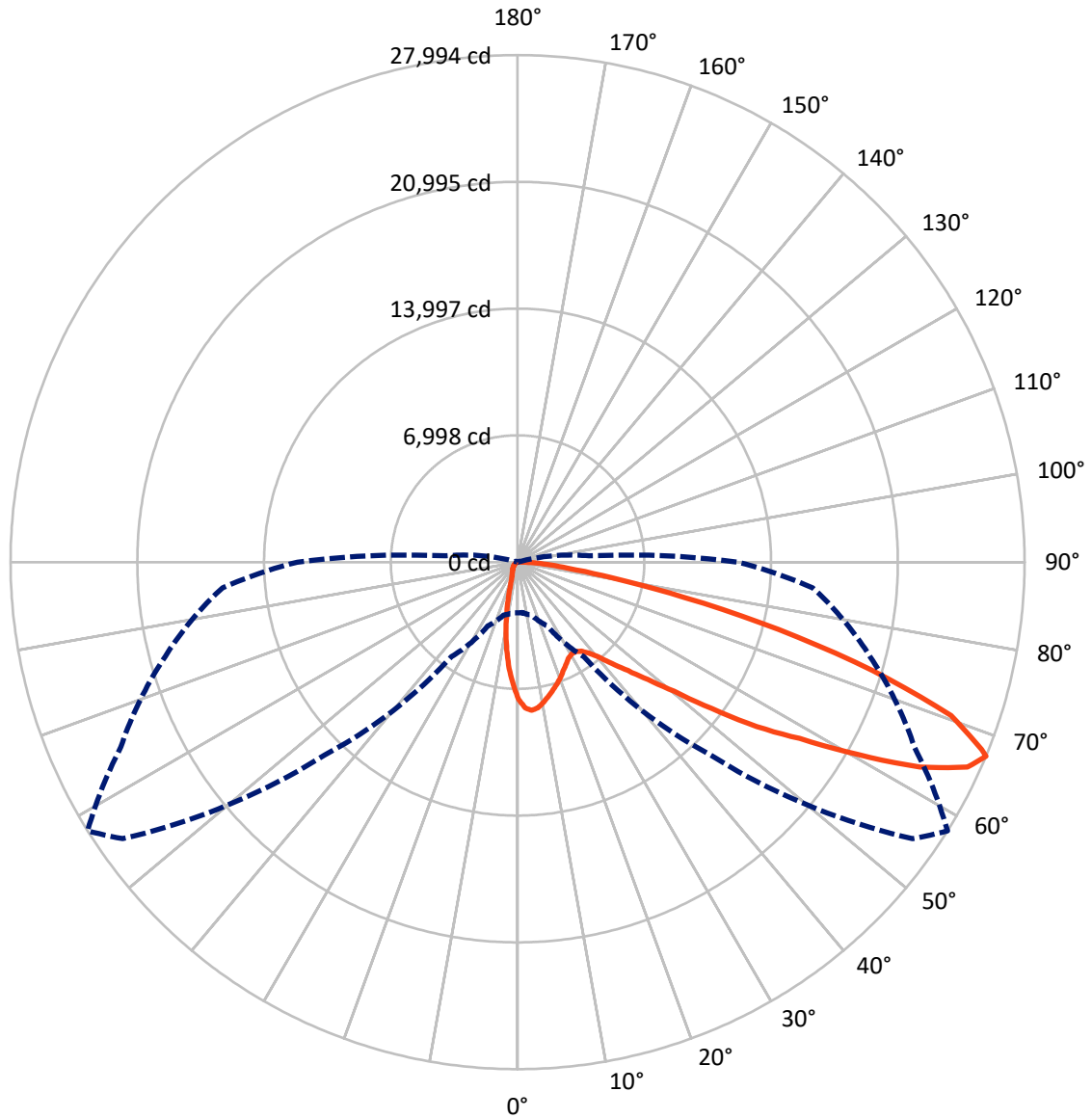
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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	2212.0	0.0	2212.0
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	24549.7	0.0	24549.7
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	26761.7	0.0	26761.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	601.6	2.2
10°-20°	1247.8	4.7
20°-30°	1655.6	6.2
30°-40°	2294.1	8.6
40°-50°	3743.3	14.0
50°-60°	6579.6	24.6
60°-70°	7287.4	27.2
70°-80°	3019.9	11.3
80°-90°	332.4	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°	26761.7	100.0
0°-180°	26761.7	100.0



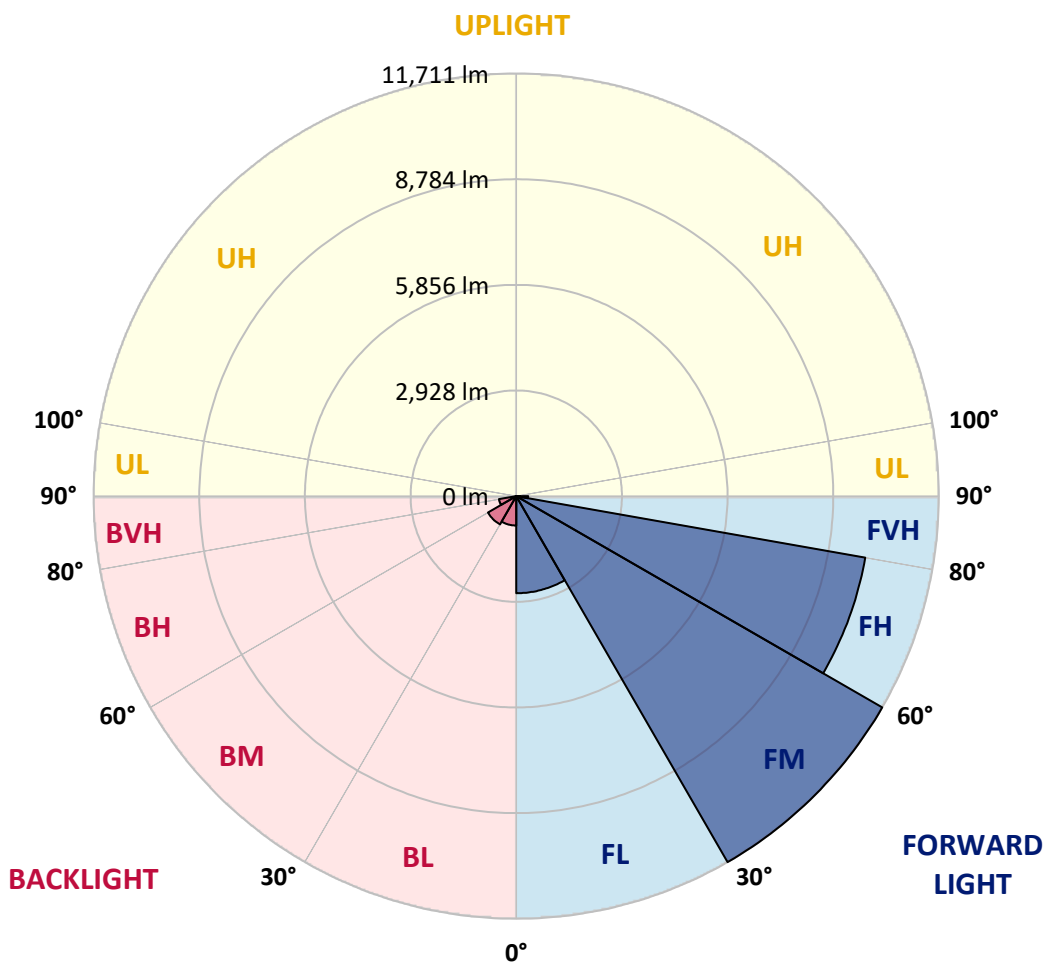
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2690.3	10.1			
FM (30°-60°)	11711.5	43.8			
FH (60°-80°)	9820.9	36.7			G4/12000
FVH (80°-90°)	327.0	1.2			G3/500
BL (0°-30°)	814.7	3.0	B2/1000		
BM (30°-60°)	905.5	3.4	B1/1000		
BH (60°-80°)	486.3	1.8	B1/500		G1/500
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	7582.0	7582.0	7582.0	7582.0	7582.0	7582.0	7582.0	7582.0	7582.0	7582.0	7582.0
2.5°	8249.9	8278.3	8303.2	8257.0	8296.1	8239.3	8093.6	8061.6	8036.7	7820.0	7695.7
5°	8246.4	8214.4	8239.3	8260.6	8207.3	8249.9	8214.4	8217.9	8122.0	7926.6	7578.4
7.5°	7695.7	7681.4	7695.7	7798.7	7915.9	8008.3	8061.6	8114.9	8050.9	7759.6	7422.1
10°	6953.1	7024.2	7063.2	7248.0	7429.2	7599.7	7766.7	7866.2	7848.4	7731.2	7251.5
12.5°	6434.4	6413.0	6555.2	6676.0	6857.2	7201.8	7493.1	7585.5	7692.1	7528.7	7027.7
15°	5954.7	5897.9	5983.1	6192.8	6501.9	6775.4	7184.0	7322.6	7457.6	7500.2	6906.9
17.5°	5496.4	5524.8	5613.6	5801.9	6093.3	6477.0	6860.7	7059.7	7383.0	7326.2	6725.7
20°	5276.1	5336.5	5368.5	5464.4	5666.9	6050.6	6622.7	6782.6	7127.2	7322.6	6548.1
22.5°	5286.8	5286.8	5212.2	5269.0	5453.8	5752.2	6299.4	6477.0	7024.2	7137.8	6388.2
25°	5400.5	5329.4	5333.0	5265.4	5343.6	5507.0	6008.0	6224.7	6814.5	7155.6	6302.9
27.5°	5485.7	5471.5	5450.2	5432.4	5333.0	5357.8	5816.2	5993.8	6732.8	7134.3	6171.4
30°	5794.8	5730.9	5709.6	5670.5	5539.0	5418.2	5663.4	5887.2	6668.9	7184.0	6096.8
32.5°	6054.2	6064.9	6082.6	5968.9	5855.2	5556.8	5706.0	5883.7	6622.7	7297.7	6171.4
35°	6381.1	6427.3	6434.4	6398.8	6278.0	5983.1	5883.7	6036.4	6700.8	7500.2	6178.6
37.5°	6878.5	6828.7	6963.8	6978.0	6892.7	6501.9	6295.8	6356.2	6931.8	7823.6	6448.6
40°	7201.8	7262.2	7514.5	7670.8	7525.1	7169.8	6892.7	6882.0	7265.8	8331.6	6782.6
42.5°	7560.6	7695.7	7972.8	8310.3	8292.5	7962.1	7681.4	7635.3	7859.1	9067.1	7311.9
45°	8050.9	8171.7	8559.0	9067.1	9344.2	9063.5	8640.7	8548.4	8580.3	10069.0	8214.4
47.5°	8864.6	8832.6	9390.4	9891.4	10346.1	10129.4	9948.2	9678.2	9653.3	11248.6	9461.5
50°	9784.8	9777.7	10275.1	10843.6	11369.4	11792.2	11490.2	11195.3	11202.4	12851.0	10928.8
52.5°	10658.8	10797.4	11333.9	11898.8	12801.2	13256.0	13547.3	13430.1	12865.2	14282.8	12499.2
55°	11120.7	11241.5	11774.4	12747.9	14172.7	15341.6	16130.3	16030.8	14940.1	15895.8	14048.3
57.5°	10683.7	10765.4	11486.6	12762.1	15131.9	17739.8	18496.6	18372.2	17086.1	17128.7	15920.7
60°	8853.9	8981.8	10054.8	11550.6	14758.9	19587.3	21754.6	21566.3	19040.2	18688.4	17125.1
62.5°	6132.4	6217.6	7098.8	8960.5	12989.5	20230.4	24831.5	24934.5	21100.9	19903.5	17484.0
65°	3972.2	3965.1	4469.6	5730.9	9205.7	18283.4	26650.6	27290.1	23090.5	20088.3	17373.8
67°	2806.8	2796.2	3034.2	3886.9	6374.0	15064.4	26618.6	27993.6	24170.6	20141.6	16354.2
67.5°	2590.1	2579.4	2806.8	3574.3	5752.2	14009.2	26220.7	27631.2	24550.8	20067.0	15906.5
70°	2011.0	1982.5	2067.8	2462.2	3350.4	9060.0	22440.3	25382.2	23762.0	18205.2	12701.7
72.5°	1453.2	1485.1	1620.1	2021.6	2629.2	4874.6	17103.8	20525.3	19846.7	13721.4	8072.3
75°	1012.6	1041.0	1257.7	1648.6	2412.4	2956.0	11564.8	14886.8	13824.5	7574.9	3439.2
77.5°	529.4	564.9	803.0	1318.1	2192.2	2288.1	6910.5	9440.1	7326.2	2696.7	948.6
80°	245.2	262.9	401.5	934.4	1833.3	2011.0	4029.0	5251.2	2931.2	604.0	326.9
82.5°	106.6	117.2	184.8	536.5	1300.4	1758.7	2494.2	2753.5	1062.3	195.4	202.5
85°	21.3	24.9	71.1	284.2	628.9	1065.9	1751.6	1634.3	532.9	95.9	159.9
87.5°	0.0	0.0	17.8	81.7	170.5	316.2	742.6	742.6	163.4	49.7	60.4
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°	7582.0	7582.0	7582.0	7582.0	7582.0	7582.0	7582.0	7582.0	7582.0	7582.0	7582.0
2.5°	7585.5	7457.6	7176.9	6917.6	6732.8	6523.2	6246.1	6121.7	6075.5	6011.6	5915.6
5°	7386.5	7230.2	6750.6	6267.4	5738.0	5336.5	4910.2	4661.4	4473.1	4355.9	4316.8
7.5°	7105.9	6786.1	6139.5	5364.9	4679.2	4082.3	3435.7	2998.7	2718.0	2604.3	2497.7
10°	6882.0	6466.3	5482.2	4519.3	3606.2	2732.2	2003.9	1620.1	1328.8	1218.7	1204.4
12.5°	6590.7	6093.3	4867.5	3656.0	2508.4	1627.2	1108.5	962.8	881.1	866.9	856.3
15°	6349.1	5755.8	4284.8	2831.7	1623.7	1016.1	863.4	827.8	806.5	799.4	803.0
17.5°	6185.7	5393.4	3687.9	2060.7	1069.4	831.4	795.9	774.5	763.9	760.3	749.7
20°	5862.3	5087.8	3098.2	1442.5	834.9	767.4	739.0	721.2	710.6	707.0	703.5
22.5°	5677.6	4700.5	2508.4	1005.5	742.6	696.4	675.1	660.8	643.1	632.4	628.9
25°	5492.8	4416.3	1982.5	781.6	675.1	643.1	611.1	593.3	564.9	550.7	547.2
27.5°	5276.1	4135.6	1527.8	678.6	607.6	575.6	543.6	515.2	479.6	465.4	458.3
30°	5151.8	3862.0	1151.2	607.6	557.8	515.2	476.1	440.6	401.5	376.6	369.5
32.5°	5087.8	3613.3	863.4	554.3	504.5	458.3	408.6	366.0	330.4	309.1	305.6
35°	5009.6	3371.7	678.6	504.5	454.8	405.0	355.3	312.7	277.1	259.4	252.3
37.5°	5091.4	3229.6	564.9	465.4	415.7	358.8	305.6	262.9	234.5	216.7	213.2
40°	5315.2	3112.4	490.3	429.9	376.6	316.2	266.5	223.8	199.0	184.8	177.6
42.5°	5659.8	3112.4	444.1	394.4	341.1	277.1	227.4	195.4	170.5	156.3	152.8
45°	6285.1	3208.3	405.0	358.8	298.4	238.0	195.4	163.4	138.6	124.4	120.8
47.5°	7162.7	3428.6	373.1	326.9	266.5	209.6	170.5	138.6	113.7	99.5	95.9
50°	8342.3	3929.5	341.1	287.8	238.0	181.2	142.1	110.1	88.8	74.6	71.1
52.5°	9813.2	4640.1	309.1	266.5	202.5	152.8	113.7	88.8	67.5	56.8	53.3
55°	11369.4	5510.6	270.0	238.0	174.1	127.9	92.4	67.5	49.7	42.6	39.1
57.5°	12936.2	6182.1	238.0	206.1	142.1	103.0	74.6	53.3	35.5	28.4	24.9
60°	13767.6	6246.1	206.1	170.5	113.7	81.7	56.8	39.1	24.9	17.8	14.2
62.5°	13895.5	5677.6	177.6	138.6	92.4	64.0	39.1	28.4	14.2	7.1	7.1
65°	13238.2	4732.5	152.8	110.1	71.1	46.2	28.4	17.8	7.1	3.6	0.0
67°	12172.4	3965.1	131.5	92.4	56.8	35.5	21.3	10.7	3.6	0.0	0.0
67.5°	11760.2	3751.9	124.4	85.3	53.3	32.0	17.8	10.7	3.6	0.0	0.0
70°	9127.5	2678.9	92.4	60.4	39.1	24.9	14.2	7.1	0.0	0.0	0.0
72.5°	5592.3	1566.8	71.1	42.6	28.4	17.8	10.7	3.6	0.0	0.0	0.0
75°	2344.9	540.0	60.4	32.0	21.3	10.7	7.1	3.6	0.0	0.0	0.0
77.5°	611.1	202.5	42.6	21.3	14.2	10.7	7.1	3.6	0.0	0.0	0.0
80°	248.7	92.4	28.4	14.2	14.2	10.7	7.1	3.6	0.0	0.0	0.0
82.5°	163.4	42.6	17.8	14.2	10.7	7.1	3.6	0.0	0.0	0.0	0.0
85°	124.4	24.9	10.7	10.7	7.1	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	53.3	14.2	10.7	7.1	7.1	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)