

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: P484343

Luminaire Tested: **IFLD-L-SA7A-730-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484343
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

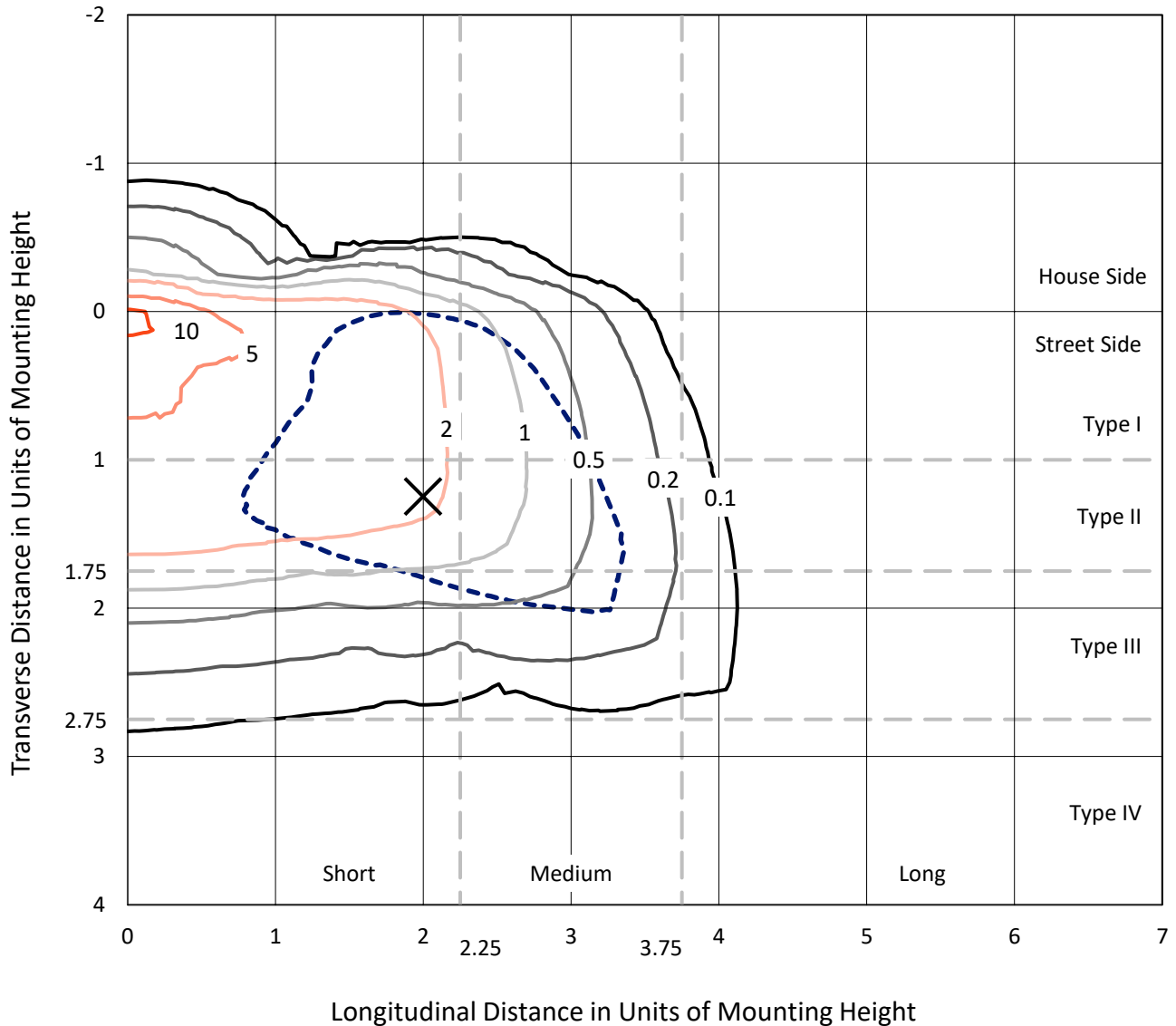
Lumens per Lamp: N/A
Luminaire Lumens: 23836.3 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

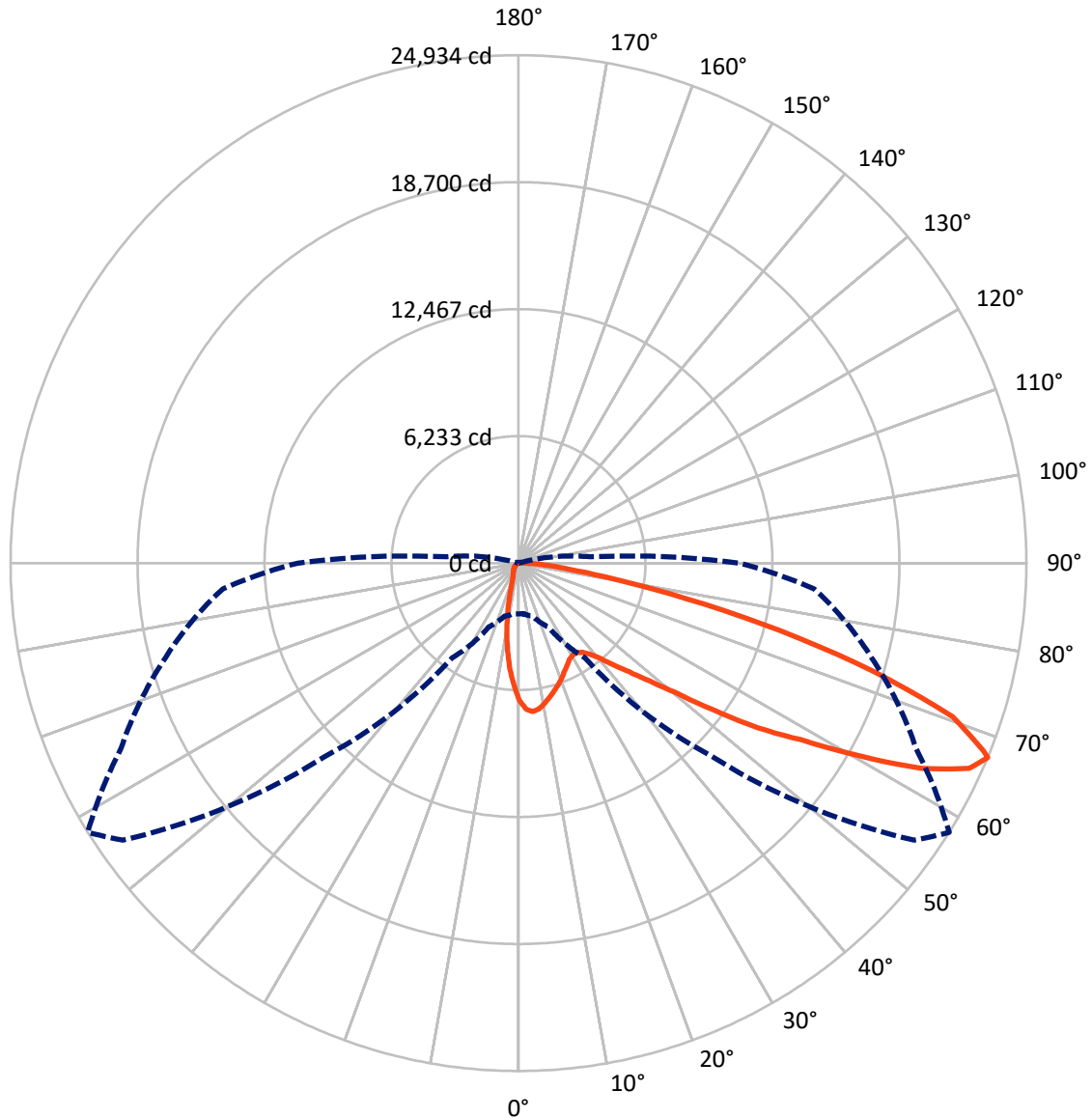
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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
House Side	Lumens	1970.2	0.0	1970.2
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	21866.1	0.0	21866.1
	% Fixture	91.7	0.0	91.7
Total	Lumens	23836.3	0.0	23836.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.8	2.2
10°-20°	1111.4	4.7
20°-30°	1474.6	6.2
30°-40°	2043.3	8.6
40°-50°	3334.1	14.0
50°-60°	5860.3	24.6
60°-70°	6490.8	27.2
70°-80°	2689.8	11.3
80°-90°	296.1	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°	23836.3	100.0
0°-180°	23836.3	100.0



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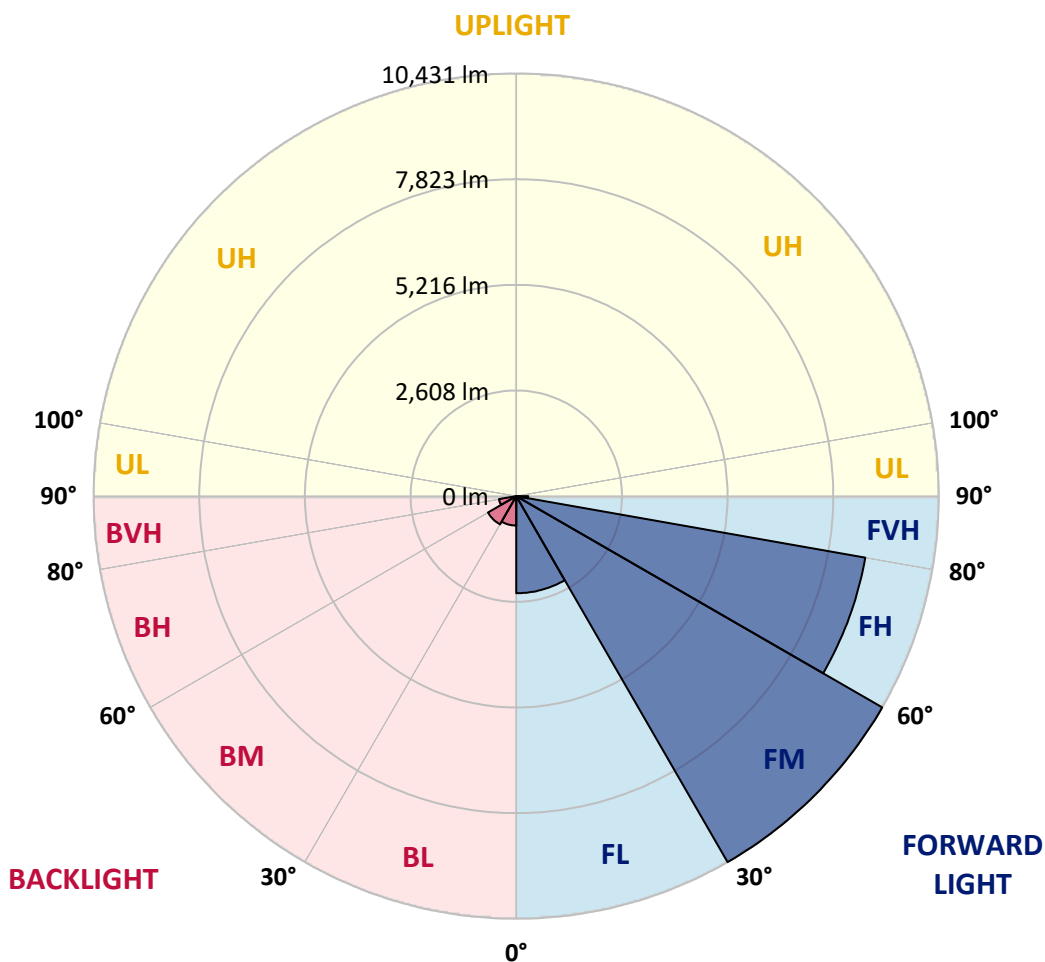
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2396.2	10.1			
FM (30°-60°)	10431.2	43.8			
FH (60°-80°)	8747.4	36.7			G4/12000
FVH (80°-90°)	291.2	1.2			G3/500
BL (0°-30°)	725.6	3.0	B2/1000		
BM (30°-60°)	806.5	3.4	B1/1000		
BH (60°-80°)	433.2	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°	6753.1	6753.1	6753.1	6753.1	6753.1	6753.1	6753.1	6753.1	6753.1	6753.1	6753.1
2.5°	7348.1	7373.4	7395.6	7354.4	7389.2	7338.6	7208.8	7180.4	7158.2	6965.2	6854.4
5°	7344.9	7316.4	7338.6	7357.6	7310.1	7348.1	7316.4	7319.6	7234.2	7060.1	6750.0
7.5°	6854.4	6841.8	6854.4	6946.2	7050.6	7132.9	7180.4	7227.8	7170.9	6911.4	6610.7
10°	6193.0	6256.3	6291.1	6455.7	6617.1	6769.0	6917.7	7006.3	6990.5	6886.1	6458.8
12.5°	5731.0	5712.0	5838.6	5946.2	6107.6	6414.5	6674.0	6756.3	6851.3	6705.7	6259.5
15°	5303.8	5253.2	5329.1	5515.8	5791.1	6034.8	6398.7	6522.1	6642.4	6680.4	6151.9
17.5°	4895.6	4920.9	5000.0	5167.7	5427.2	5769.0	6110.7	6288.0	6575.9	6525.3	5990.5
20°	4699.4	4753.2	4781.6	4867.1	5047.5	5389.2	5898.7	6041.1	6348.1	6522.1	5832.3
22.5°	4708.8	4708.8	4642.4	4693.0	4857.6	5123.4	5610.7	5769.0	6256.3	6357.6	5689.9
25°	4810.1	4746.8	4750.0	4689.9	4759.5	4905.1	5351.3	5544.3	6069.6	6373.4	5613.9
27.5°	4886.1	4873.4	4854.4	4838.6	4750.0	4772.1	5180.4	5338.6	5996.8	6354.4	5496.8
30°	5161.4	5104.4	5085.4	5050.6	4933.5	4825.9	5044.3	5243.7	5939.9	6398.7	5430.4
32.5°	5392.4	5401.9	5417.7	5316.4	5215.2	4949.4	5082.3	5240.5	5898.7	6500.0	5496.8
35°	5683.5	5724.7	5731.0	5699.4	5591.8	5329.1	5240.5	5376.6	5968.3	6680.4	5503.2
37.5°	6126.6	6082.3	6202.5	6215.2	6139.2	5791.1	5607.6	5661.4	6174.0	6968.3	5743.7
40°	6414.5	6468.3	6693.0	6832.3	6702.5	6386.1	6139.2	6129.7	6471.5	7420.9	6041.1
42.5°	6734.2	6854.4	7101.2	7401.9	7386.1	7091.8	6841.8	6800.6	7000.0	8075.9	6512.6
45°	7170.9	7278.5	7623.4	8075.9	8322.8	8072.8	7696.2	7613.9	7642.4	8968.3	7316.4
47.5°	7895.6	7867.1	8363.9	8810.1	9215.2	9022.1	8860.7	8620.2	8598.1	10019.0	8427.2
50°	8715.2	8708.8	9151.9	9658.2	10126.6	10503.1	10234.2	9971.5	9977.8	11446.2	9734.2
52.5°	9493.6	9617.1	10094.9	10598.1	11401.9	11806.9	12066.4	11962.0	11458.8	12721.5	11132.9
55°	9905.0	10012.6	10487.3	11354.4	12623.4	13664.5	14367.1	14278.4	13306.9	14158.2	12512.6
57.5°	9515.8	9588.6	10231.0	11367.1	13477.8	15800.6	16474.6	16363.9	15218.3	15256.3	14180.3
60°	7886.1	8000.0	8955.7	10288.0	13145.5	17446.2	19376.5	19208.8	16958.8	16645.5	15253.1
62.5°	5462.0	5538.0	6322.8	7981.0	11569.6	18018.9	22117.0	22208.8	18794.3	17727.8	15572.7
65°	3538.0	3531.6	3981.0	5104.4	8199.3	16284.8	23737.3	24306.9	20566.4	17892.4	15474.6
67°	2500.0	2490.5	2702.5	3462.0	5677.2	13417.7	23708.8	24933.5	21528.4	17939.8	14566.4
67.5°	2307.0	2297.5	2500.0	3183.5	5123.4	12477.8	23354.4	24610.7	21867.0	17873.4	14167.7
70°	1791.1	1765.8	1841.8	2193.0	2984.2	8069.6	19987.3	22607.5	21164.5	16215.2	11313.3
72.5°	1294.3	1322.8	1443.0	1800.6	2341.8	4341.8	15234.1	18281.6	17677.2	12221.5	7189.9
75°	901.9	927.2	1120.3	1468.4	2148.7	2632.9	10300.6	13259.5	12313.3	6746.8	3063.3
77.5°	471.5	503.2	715.2	1174.0	1952.5	2038.0	6155.0	8408.2	6525.3	2401.9	844.9
80°	218.4	234.2	357.6	832.3	1632.9	1791.1	3588.6	4677.2	2610.8	538.0	291.1
82.5°	94.9	104.4	164.6	477.8	1158.2	1566.5	2221.5	2452.5	946.2	174.1	180.4
85°	19.0	22.2	63.3	253.2	560.1	949.4	1560.1	1455.7	474.7	85.4	142.4
87.5°	0.0	0.0	15.8	72.8	151.9	281.6	661.4	661.4	145.6	44.3	53.8
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°	6753.1	6753.1	6753.1	6753.1	6753.1	6753.1	6753.1	6753.1	6753.1	6753.1	6753.1
2.5°	6756.3	6642.4	6392.4	6161.4	5996.8	5810.1	5563.3	5452.5	5411.4	5354.4	5269.0
5°	6579.1	6439.9	6012.6	5582.3	5110.7	4753.2	4373.4	4151.9	3984.2	3879.7	3844.9
7.5°	6329.1	6044.3	5468.3	4778.5	4167.7	3636.1	3060.1	2670.9	2420.9	2319.6	2224.7
10°	6129.7	5759.5	4882.9	4025.3	3212.0	2433.5	1784.8	1443.0	1183.5	1085.4	1072.8
12.5°	5870.2	5427.2	4335.4	3256.3	2234.2	1449.4	987.3	857.6	784.8	772.2	762.7
15°	5655.1	5126.6	3816.4	2522.1	1446.2	905.1	769.0	737.3	718.4	712.0	715.2
17.5°	5509.5	4803.8	3284.8	1835.4	952.5	740.5	708.9	689.9	680.4	677.2	667.7
20°	5221.5	4531.6	2759.5	1284.8	743.7	683.5	658.2	642.4	632.9	629.7	626.6
22.5°	5057.0	4186.7	2234.2	895.6	661.4	620.3	601.3	588.6	572.8	563.3	560.1
25°	4892.4	3933.5	1765.8	696.2	601.3	572.8	544.3	528.5	503.2	490.5	487.3
27.5°	4699.4	3683.5	1360.8	604.4	541.1	512.7	484.2	458.9	427.2	414.6	408.2
30°	4588.6	3439.9	1025.3	541.1	496.8	458.9	424.0	392.4	357.6	335.4	329.1
32.5°	4531.6	3218.3	769.0	493.7	449.4	408.2	363.9	325.9	294.3	275.3	272.2
35°	4462.0	3003.2	604.4	449.4	405.1	360.8	316.5	278.5	246.8	231.0	224.7
37.5°	4534.8	2876.6	503.2	414.6	370.3	319.6	272.2	234.2	208.9	193.0	189.9
40°	4734.2	2772.1	436.7	382.9	335.4	281.6	237.3	199.4	177.2	164.6	158.2
42.5°	5041.1	2772.1	395.6	351.3	303.8	246.8	202.5	174.1	151.9	139.2	136.1
45°	5598.1	2857.6	360.8	319.6	265.8	212.0	174.1	145.6	123.4	110.8	107.6
47.5°	6379.7	3053.8	332.3	291.1	237.3	186.7	151.9	123.4	101.3	88.6	85.4
50°	7430.4	3500.0	303.8	256.3	212.0	161.4	126.6	98.1	79.1	66.5	63.3
52.5°	8740.5	4132.9	275.3	237.3	180.4	136.1	101.3	79.1	60.1	50.6	47.5
55°	10126.6	4908.2	240.5	212.0	155.1	113.9	82.3	60.1	44.3	38.0	34.8
57.5°	11522.1	5506.3	212.0	183.5	126.6	91.8	66.5	47.5	31.6	25.3	22.2
60°	12262.6	5563.3	183.5	151.9	101.3	72.8	50.6	34.8	22.2	15.8	12.7
62.5°	12376.6	5057.0	158.2	123.4	82.3	57.0	34.8	25.3	12.7	6.3	6.3
65°	11791.1	4215.2	136.1	98.1	63.3	41.1	25.3	15.8	6.3	3.2	0.0
67°	10841.7	3531.6	117.1	82.3	50.6	31.6	19.0	9.5	3.2	0.0	0.0
67.5°	10474.7	3341.8	110.8	75.9	47.5	28.5	15.8	9.5	3.2	0.0	0.0
70°	8129.7	2386.1	82.3	53.8	34.8	22.2	12.7	6.3	0.0	0.0	0.0
72.5°	4981.0	1395.6	63.3	38.0	25.3	15.8	9.5	3.2	0.0	0.0	0.0
75°	2088.6	481.0	53.8	28.5	19.0	9.5	6.3	3.2	0.0	0.0	0.0
77.5°	544.3	180.4	38.0	19.0	12.7	9.5	6.3	3.2	0.0	0.0	0.0
80°	221.5	82.3	25.3	12.7	12.7	9.5	6.3	3.2	0.0	0.0	0.0
82.5°	145.6	38.0	15.8	12.7	9.5	6.3	3.2	0.0	0.0	0.0	0.0
85°	110.8	22.2	9.5	9.5	6.3	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	47.5	12.7	9.5	6.3	6.3	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)