

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: P484578

Luminaire Tested: **IFLD-L-SA7B-830-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484578
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-830-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3
distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

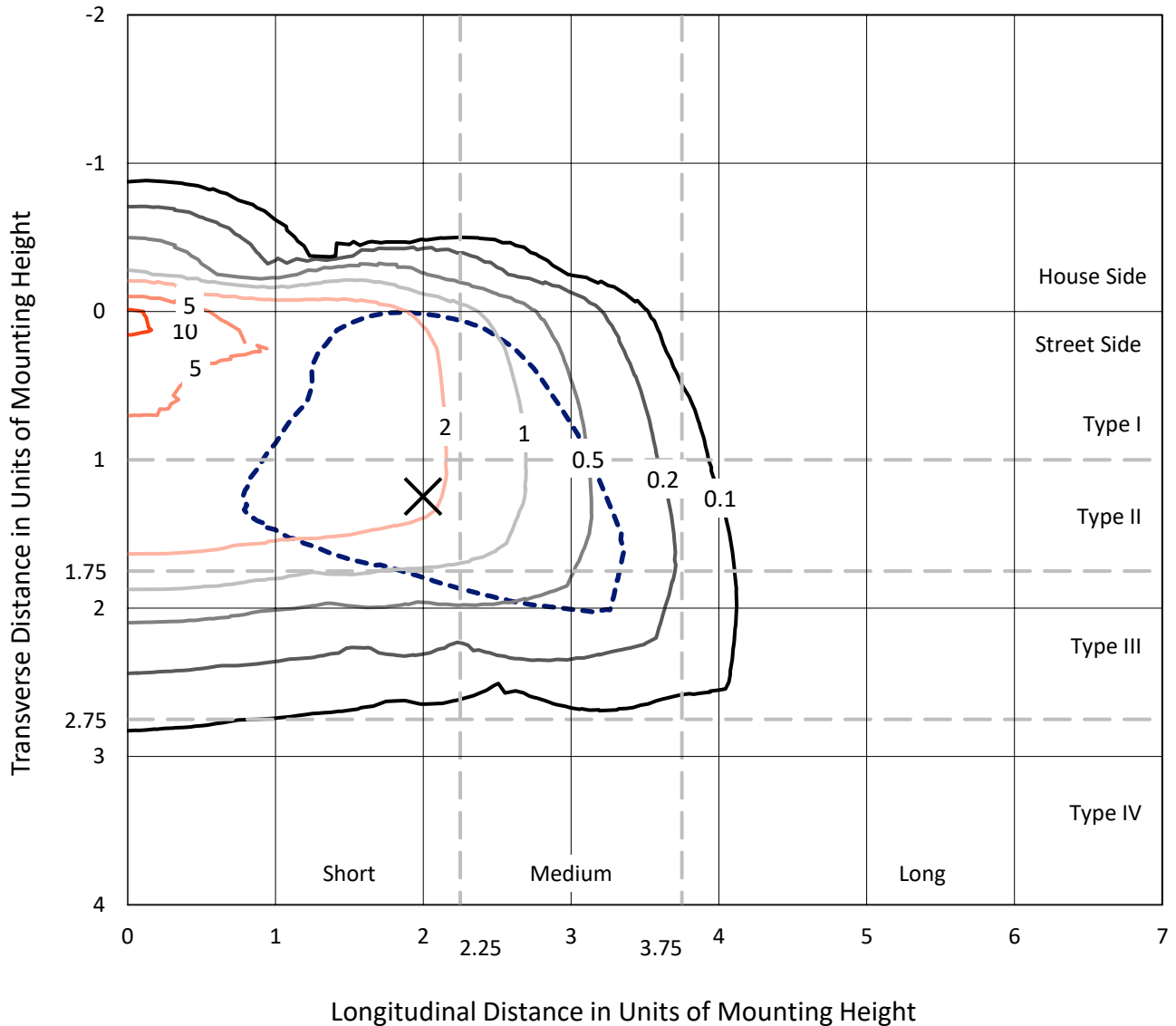
Lumens per Lamp: N/A
Luminaire Lumens: 23664.9 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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

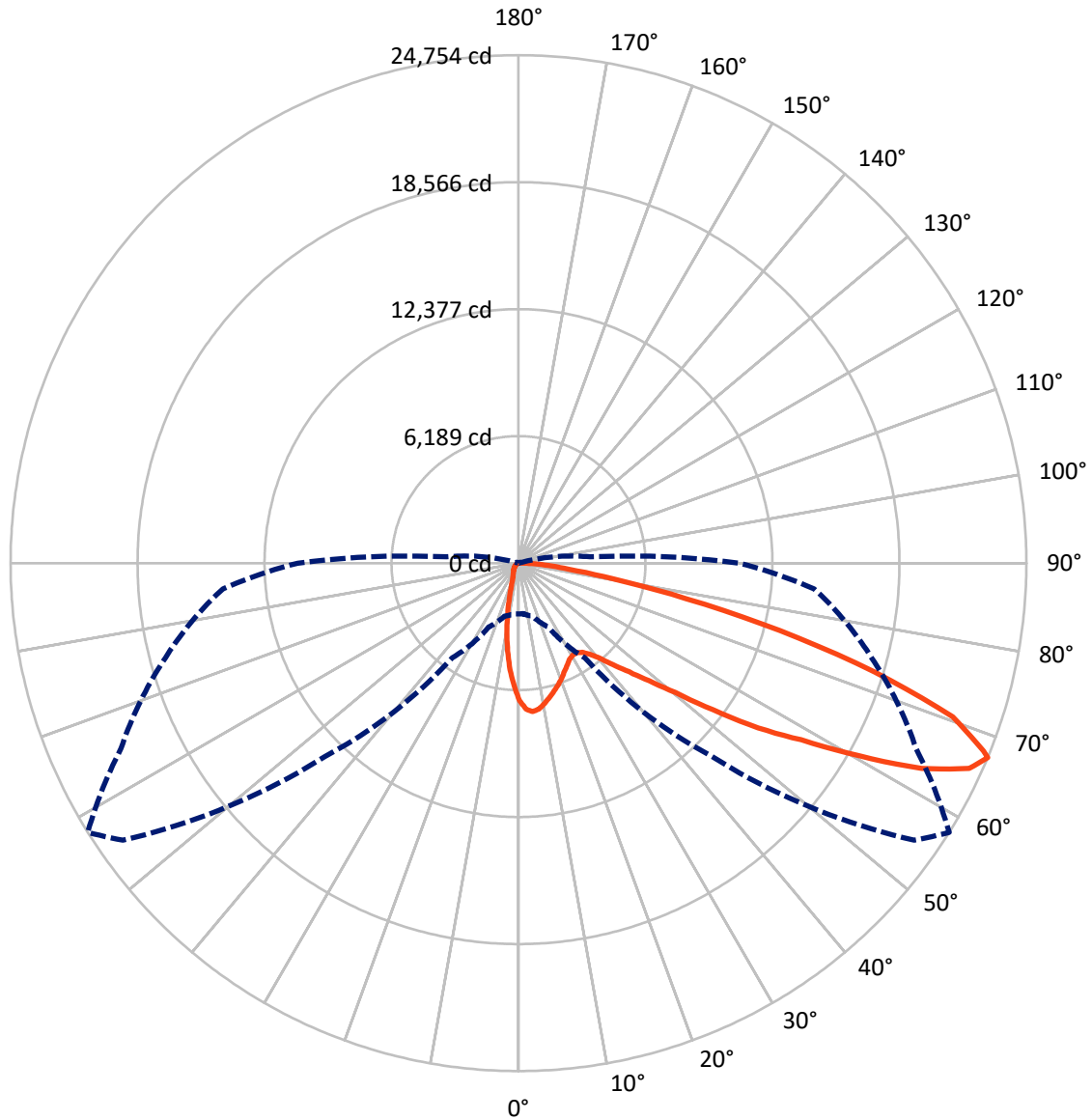
× Max cd
 - - - 1/2 Max cd



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	1956.1	0.0	1956.1
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	21708.9	0.0	21708.9
	% Fixture	91.7	0.0	91.7
Total	Lumens	23664.9	0.0	23664.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.0	2.2
10°-20°	1103.4	4.7
20°-30°	1464.0	6.2
30°-40°	2028.6	8.6
40°-50°	3310.2	14.0
50°-60°	5818.2	24.6
60°-70°	6444.1	27.2
70°-80°	2670.4	11.3
80°-90°	294.0	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°	23664.9	100.0
0°-180°	23664.9	100.0



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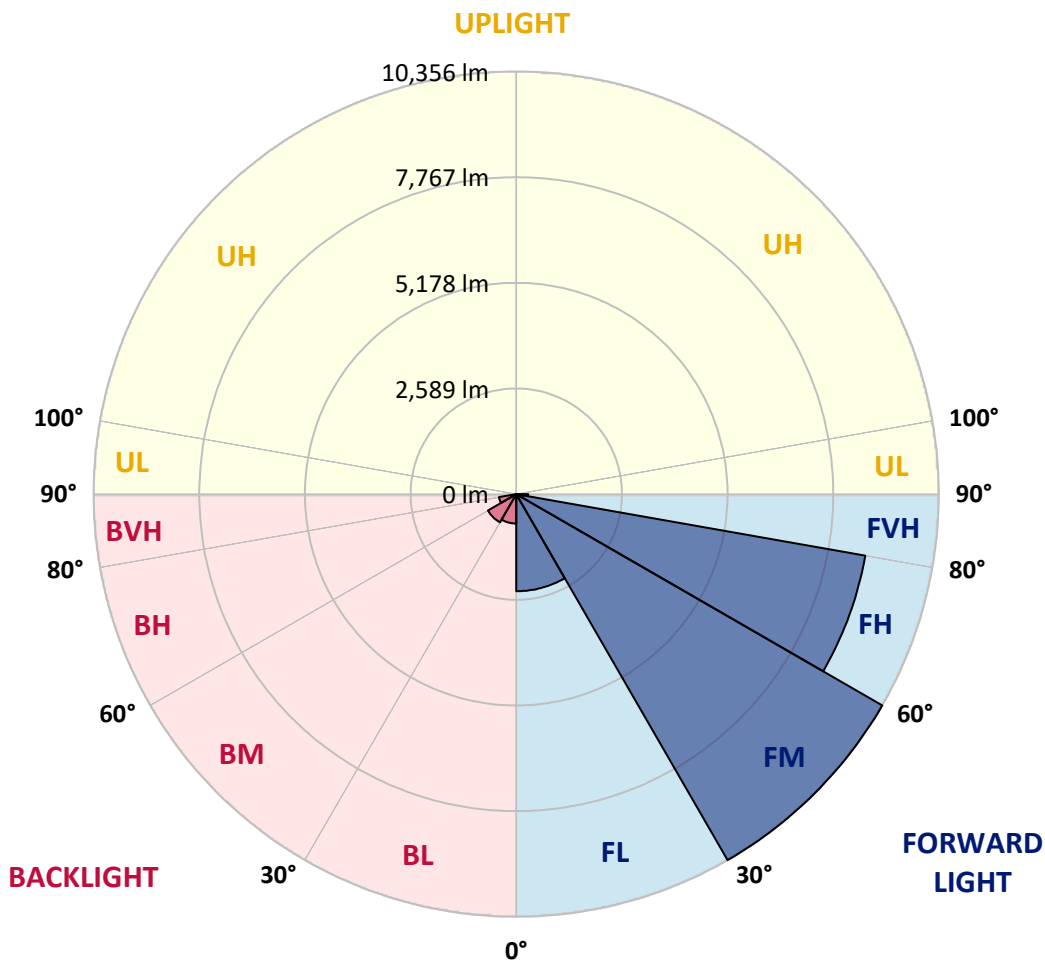
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2379.0	10.1			
FM (30°-60°)	10356.3	43.8			
FH (60°-80°)	8684.5	36.7			G4/12000
FVH (80°-90°)	289.1	1.2			G3/500
BL (0°-30°)	720.4	3.0	B2/1000		
BM (30°-60°)	800.7	3.4	B1/1000		
BH (60°-80°)	430.1	1.8	B1/500		G1/500
BVH (80°-90°)	4.8	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°	6704.6	6704.6	6704.6	6704.6	6704.6	6704.6	6704.6	6704.6	6704.6	6704.6	6704.6
2.5°	7295.3	7320.4	7342.4	7301.5	7336.1	7285.8	7157.0	7128.7	7106.8	6915.1	6805.1
5°	7292.1	7263.8	7285.8	7304.7	7257.6	7295.3	7263.8	7267.0	7182.2	7009.4	6701.5
7.5°	6805.1	6792.6	6805.1	6896.3	6999.9	7081.6	7128.7	7175.9	7119.3	6861.7	6563.2
10°	6148.5	6211.3	6245.9	6409.3	6569.5	6720.3	6868.0	6955.9	6940.2	6836.6	6412.4
12.5°	5689.8	5670.9	5796.6	5903.4	6063.7	6368.4	6626.1	6707.7	6802.0	6657.5	6214.5
15°	5265.7	5215.4	5290.8	5476.2	5749.5	5991.4	6352.7	6475.3	6594.6	6632.3	6107.7
17.5°	4860.4	4885.5	4964.0	5130.6	5388.2	5727.5	6066.8	6242.8	6528.7	6478.4	5947.4
20°	4665.6	4719.0	4747.3	4832.1	5011.2	5350.5	5856.3	5997.7	6302.5	6475.3	5790.3
22.5°	4675.0	4675.0	4609.0	4659.3	4822.7	5086.6	5570.4	5727.5	6211.3	6311.9	5649.0
25°	4775.5	4712.7	4715.8	4656.1	4725.3	4869.8	5312.8	5504.4	6026.0	6327.6	5573.6
27.5°	4850.9	4838.4	4819.5	4803.8	4715.8	4737.8	5143.1	5300.2	5953.7	6308.7	5457.3
30°	5124.3	5067.7	5048.9	5014.3	4898.1	4791.2	5008.0	5206.0	5897.2	6352.7	5391.3
32.5°	5353.6	5363.1	5378.8	5278.2	5177.7	4913.8	5045.7	5202.8	5856.3	6453.3	5457.3
35°	5642.7	5683.5	5689.8	5658.4	5551.6	5290.8	5202.8	5337.9	5925.4	6632.3	5463.6
37.5°	6082.5	6038.5	6157.9	6170.5	6095.1	5749.5	5567.3	5620.7	6129.7	6918.2	5702.4
40°	6368.4	6421.8	6644.9	6783.1	6654.3	6340.2	6095.1	6085.7	6425.0	7367.5	5997.7
42.5°	6685.8	6805.1	7050.2	7348.7	7333.0	7040.8	6792.6	6751.7	6949.7	8017.9	6465.8
45°	7119.3	7226.1	7568.6	8017.9	8262.9	8014.7	7640.9	7559.2	7587.4	8903.9	7263.8
47.5°	7838.8	7810.5	8303.8	8746.8	9148.9	8957.3	8797.0	8558.3	8536.3	9946.9	8366.6
50°	8652.5	8646.2	9086.1	9588.8	10053.8	10427.6	10160.6	9899.8	9906.1	11363.9	9664.2
52.5°	9425.4	9547.9	10022.3	10521.9	11319.9	11722.1	11979.7	11876.0	11376.5	12630.0	11052.9
55°	9833.8	9940.7	10411.9	11272.8	12532.6	13566.3	14263.8	14175.8	13211.3	14056.4	12422.7
57.5°	9447.4	9519.7	10157.4	11285.3	13380.9	15687.0	16356.2	16246.2	15108.9	15146.6	14078.4
60°	7829.4	7942.5	8891.3	10214.0	13051.0	17320.7	19237.2	19070.7	16836.9	16525.9	15143.5
62.5°	5422.7	5498.2	6277.3	7923.6	11486.4	17889.4	21958.0	22049.2	18659.2	17600.4	15460.8
65°	3512.5	3506.2	3952.4	5067.7	8140.4	16167.7	23566.6	24132.2	20418.6	17763.7	15363.4
67°	2482.0	2472.6	2683.1	3437.1	5636.4	13321.2	23538.4	24754.2	21373.7	17810.9	14461.7
67.5°	2290.4	2280.9	2482.0	3160.7	5086.6	12388.1	23186.5	24433.8	21709.8	17744.9	14065.8
70°	1778.3	1753.1	1828.5	2177.3	2962.7	8011.6	19843.6	22445.0	21012.4	16098.6	11231.9
72.5°	1285.0	1313.3	1432.7	1787.7	2324.9	4310.6	15124.6	18150.2	17550.1	12133.6	7138.2
75°	895.4	920.5	1112.2	1457.8	2133.3	2614.0	10226.6	13164.1	12224.7	6698.3	3041.3
77.5°	468.1	499.5	710.0	1165.6	1938.5	2023.3	6110.8	8347.8	6478.4	2384.6	838.9
80°	216.8	232.5	355.0	826.3	1621.2	1778.3	3562.8	4643.6	2592.0	534.1	289.0
82.5°	94.3	103.7	163.4	474.4	1149.9	1555.2	2205.5	2434.9	939.4	172.8	179.1
85°	18.9	22.0	62.8	251.3	556.1	942.5	1548.9	1445.2	471.3	84.8	141.4
87.5°	0.0	0.0	15.7	72.3	150.8	279.6	656.6	656.6	144.5	44.0	53.4
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°	6704.6	6704.6	6704.6	6704.6	6704.6	6704.6	6704.6	6704.6	6704.6	6704.6	6704.6
2.5°	6707.7	6594.6	6346.4	6117.1	5953.7	5768.3	5523.3	5413.3	5372.5	5315.9	5231.1
5°	6531.8	6393.6	5969.4	5542.1	5074.0	4719.0	4342.0	4122.0	3955.5	3851.8	3817.3
7.5°	6283.6	6000.8	5429.0	4744.1	4137.8	3609.9	3038.1	2651.7	2403.5	2302.9	2208.7
10°	6085.7	5718.1	4847.8	3996.4	3188.9	2416.0	1772.0	1432.7	1175.0	1077.6	1065.1
12.5°	5828.0	5388.2	4304.3	3232.9	2218.1	1438.9	980.2	851.4	779.2	766.6	757.2
15°	5614.4	5089.7	3789.0	2504.0	1435.8	898.6	763.5	732.0	713.2	706.9	710.0
17.5°	5469.9	4769.3	3261.2	1822.2	945.7	735.2	703.8	684.9	675.5	672.3	662.9
20°	5184.0	4499.1	2739.6	1275.6	738.3	678.6	653.5	637.8	628.4	625.2	622.1
22.5°	5020.6	4156.6	2218.1	889.1	656.6	615.8	596.9	584.4	568.7	559.2	556.1
25°	4857.2	3905.3	1753.1	691.2	596.9	568.7	540.4	524.7	499.5	487.0	483.8
27.5°	4665.6	3657.1	1351.0	600.1	537.2	509.0	480.7	455.6	424.1	411.6	405.3
30°	4555.6	3415.1	1017.9	537.2	493.3	455.6	421.0	389.6	355.0	333.0	326.7
32.5°	4499.1	3195.2	763.5	490.1	446.1	405.3	361.3	323.6	292.2	273.3	270.2
35°	4429.9	2981.6	600.1	446.1	402.2	358.2	314.2	276.5	245.1	229.4	223.1
37.5°	4502.2	2855.9	499.5	411.6	367.6	317.3	270.2	232.5	207.4	191.6	188.5
40°	4700.1	2752.2	433.6	380.2	333.0	279.6	235.6	197.9	175.9	163.4	157.1
42.5°	5004.9	2752.2	392.7	348.7	301.6	245.1	201.1	172.8	150.8	138.2	135.1
45°	5557.8	2837.0	358.2	317.3	263.9	210.5	172.8	144.5	122.5	110.0	106.8
47.5°	6333.9	3031.8	329.9	289.0	235.6	185.4	150.8	122.5	100.5	88.0	84.8
50°	7376.9	3474.8	301.6	254.5	210.5	160.2	125.7	97.4	78.5	66.0	62.8
52.5°	8677.7	4103.2	273.3	235.6	179.1	135.1	100.5	78.5	59.7	50.3	47.1
55°	10053.8	4872.9	238.8	210.5	153.9	113.1	81.7	59.7	44.0	37.7	34.6
57.5°	11439.3	5466.7	210.5	182.2	125.7	91.1	66.0	47.1	31.4	25.1	22.0
60°	12174.5	5523.3	182.2	150.8	100.5	72.3	50.3	34.6	22.0	15.7	12.6
62.5°	12287.6	5020.6	157.1	122.5	81.7	56.6	34.6	25.1	12.6	6.3	6.3
65°	11706.3	4184.9	135.1	97.4	62.8	40.8	25.1	15.7	6.3	3.1	0.0
67°	10763.8	3506.2	116.2	81.7	50.3	31.4	18.9	9.4	3.1	0.0	0.0
67.5°	10399.4	3317.7	110.0	75.4	47.1	28.3	15.7	9.4	3.1	0.0	0.0
70°	8071.3	2368.9	81.7	53.4	34.6	22.0	12.6	6.3	0.0	0.0	0.0
72.5°	4945.2	1385.5	62.8	37.7	25.1	15.7	9.4	3.1	0.0	0.0	0.0
75°	2073.6	477.6	53.4	28.3	18.9	9.4	6.3	3.1	0.0	0.0	0.0
77.5°	540.4	179.1	37.7	18.9	12.6	9.4	6.3	3.1	0.0	0.0	0.0
80°	219.9	81.7	25.1	12.6	12.6	9.4	6.3	3.1	0.0	0.0	0.0
82.5°	144.5	37.7	15.7	12.6	9.4	6.3	3.1	0.0	0.0	0.0	0.0
85°	110.0	22.0	9.4	9.4	6.3	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	47.1	12.6	9.4	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)