

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: P483868

Luminaire Tested: **IFLD-S-SA6D-722-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483868
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-722-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

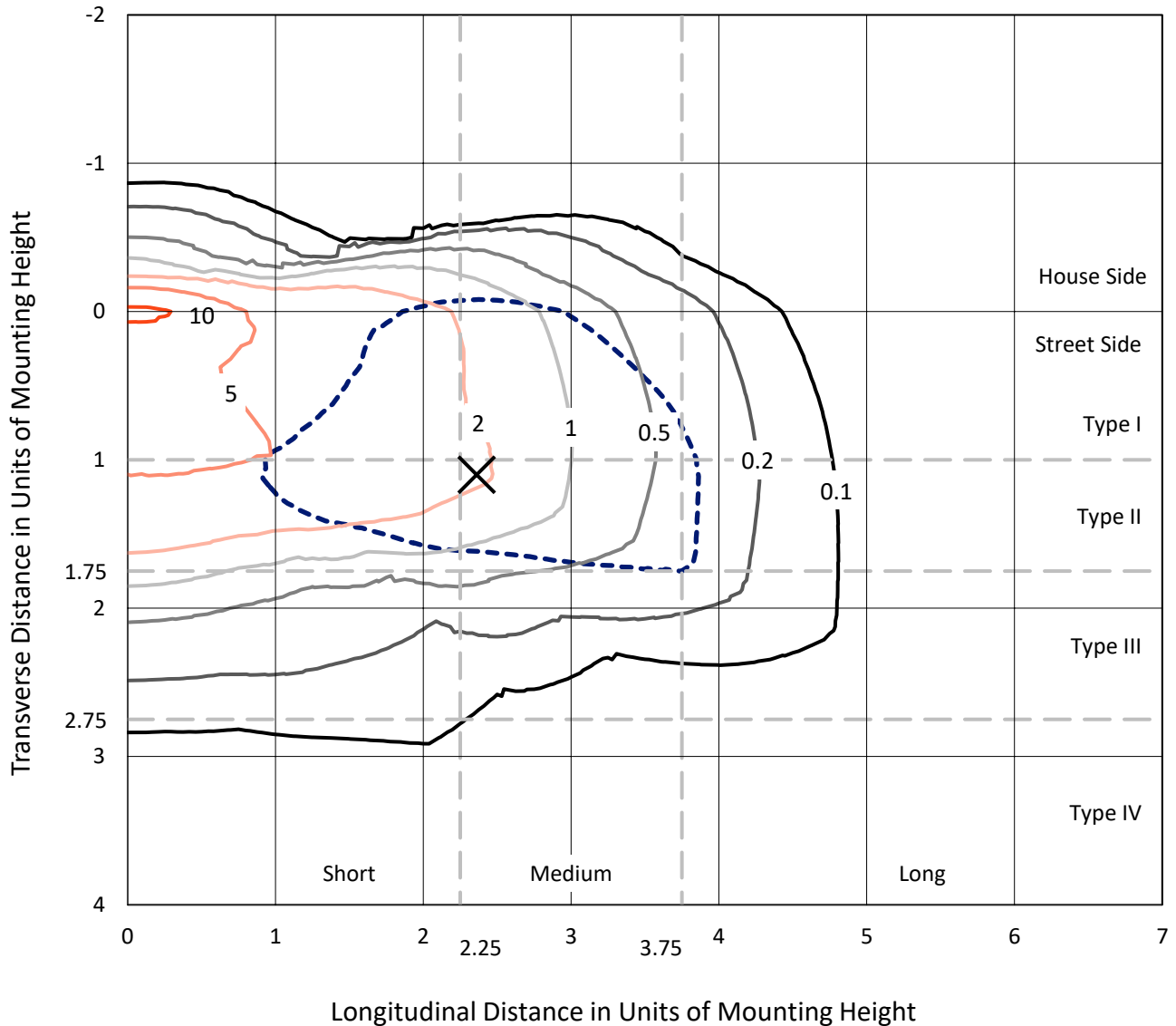
Lumens per Lamp: N/A
Luminaire Lumens: 27719.3 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 368.2
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

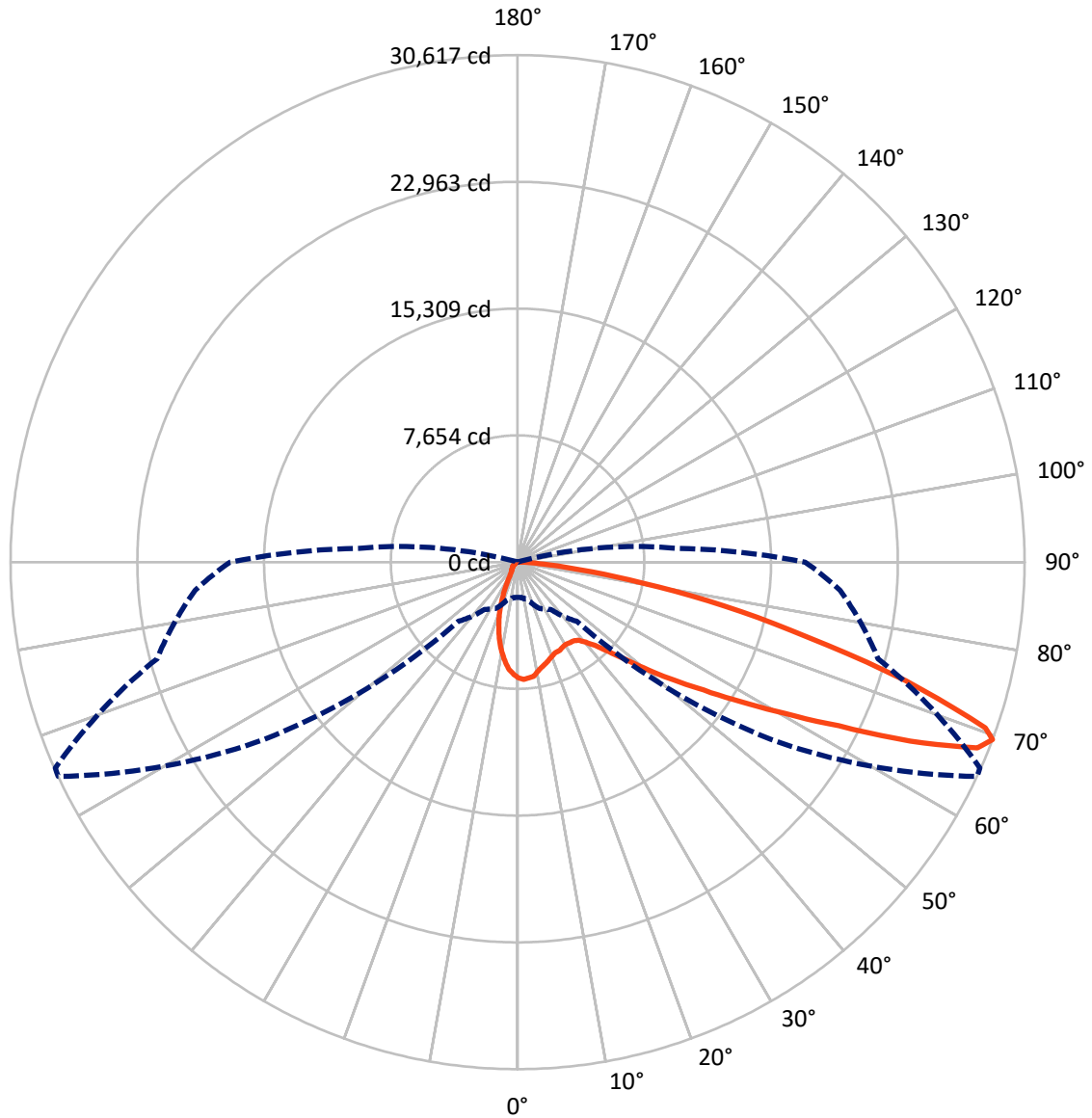
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - 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
House Side	Lumens	3362.5	0.0	3362.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	24356.8	0.0	24356.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	27719.3	0.0	27719.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.9	2.1
10°-20°	1251.3	4.5
20°-30°	1742.1	6.3
30°-40°	2468.7	8.9
40°-50°	3890.6	14.0
50°-60°	6313.2	22.8
60°-70°	7050.5	25.4
70°-80°	3970.3	14.3
80°-90°	460.7	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°	27719.3	100.0
0°-180°	27719.3	100.0



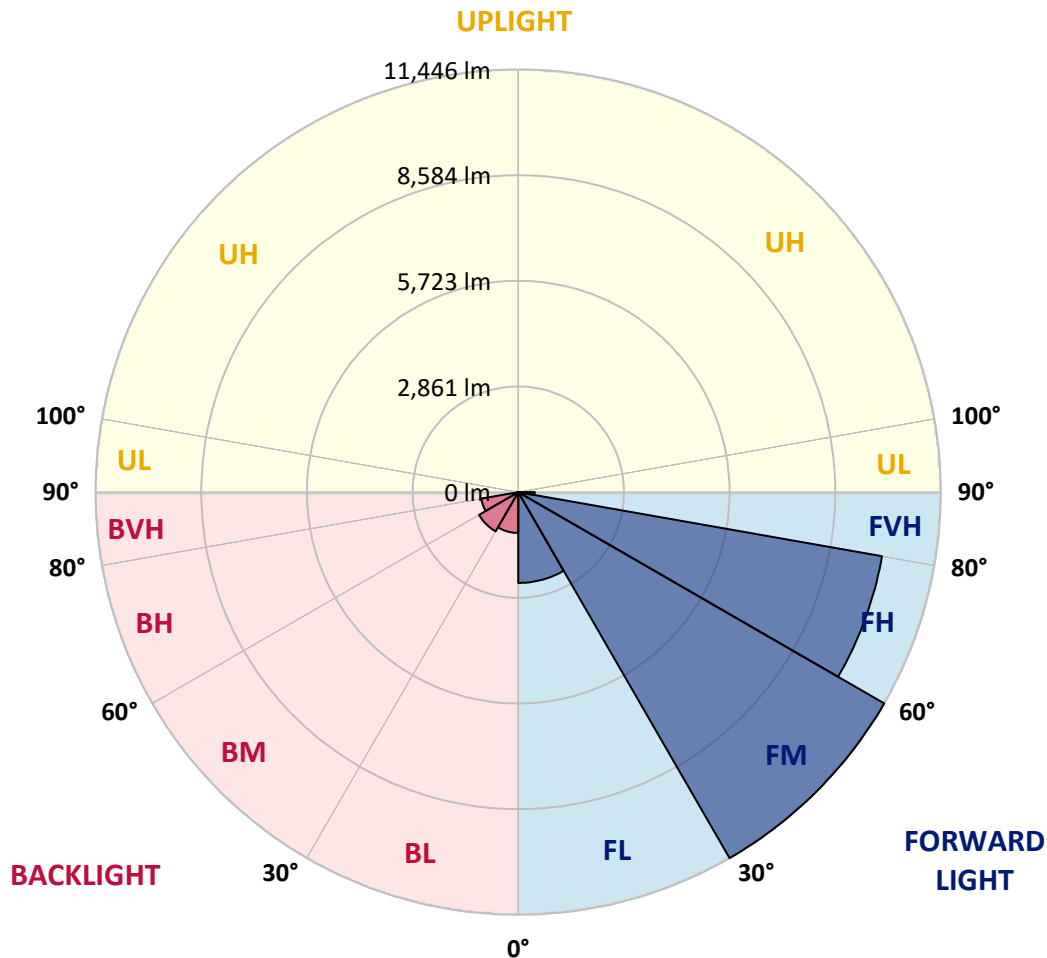
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2459.8	8.9			
FM (30°-60°)	11445.6	41.3			
FH (60°-80°)	10003.4	36.1			G4/12000
FVH (80°-90°)	448.0	1.6			G3/500
BL (0°-30°)	1105.5	4.0	B3/2500		
BM (30°-60°)	1227.0	4.4	B2/2500		
BH (60°-80°)	1017.4	3.7	B3/2500		G3/2500
BVH (80°-90°)	12.7	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6988.7	6988.7	6988.7	6988.7	6988.7	6988.7	6988.7	6988.7	6988.7	6988.7	6988.7
2.5°	6730.7	6783.0	6798.0	6850.3	6876.5	6988.7	7052.3	7089.6	7071.0	7112.1	7115.8
5°	6252.1	6222.1	6300.7	6356.8	6476.4	6670.9	6869.0	7022.3	7093.4	7160.7	7149.5
7.5°	5739.8	5724.8	5803.3	5930.5	6038.9	6274.5	6592.3	6970.0	6955.0	7119.6	7168.2
10°	5388.3	5403.2	5429.4	5556.6	5717.3	5956.7	6353.0	6704.5	6783.0	7130.8	7228.0
12.5°	5066.7	5092.9	5141.5	5272.4	5459.3	5706.1	6091.3	6502.6	6622.2	7067.2	7261.7
15°	4962.0	4902.2	4999.4	5096.6	5291.1	5511.7	5837.0	6349.3	6401.6	6992.4	7317.7
17.5°	4876.0	4838.6	4883.5	4962.0	5167.7	5347.2	5653.8	6184.7	6282.0	6962.5	7310.3
20°	4902.2	4868.5	4887.2	4947.0	5040.5	5208.8	5493.0	6027.7	6132.4	6824.2	7299.0
22.5°	4977.0	5003.1	4969.5	4984.4	5014.4	5100.4	5407.0	5915.5	6005.3	6798.0	7362.6
25°	5313.5	5268.6	5223.8	5205.1	5029.3	5066.7	5380.8	5908.0	5971.6	6704.5	7310.3
27.5°	5665.0	5627.6	5608.9	5500.5	5261.1	5149.0	5384.5	5803.3	5889.3	6667.1	7246.7
30°	6091.3	6139.9	6065.1	5934.2	5601.4	5324.7	5425.7	5751.0	5870.6	6525.0	7205.6
32.5°	6540.0	6566.2	6603.5	6506.3	6076.3	5590.2	5549.1	5799.6	5807.1	6525.0	7112.1
35°	7048.5	7011.1	7108.3	7115.8	6738.2	6061.4	5784.6	5833.3	5911.8	6495.1	7078.4
37.5°	7486.0	7549.6	7661.8	7841.2	7452.4	6726.9	6151.1	5990.3	6024.0	6633.5	7104.6
40°	7964.6	8028.2	8282.5	8462.0	8241.3	7474.8	6708.2	6356.8	6382.9	6839.1	7239.2
42.5°	8491.9	8615.3	8918.2	9232.2	9172.4	8424.6	7426.2	6895.2	6884.0	7351.4	7515.9
45°	9206.1	9370.6	9699.7	10062.4	10114.7	9512.7	8383.4	7699.1	7736.5	8020.7	8088.0
47.5°	10200.7	10193.2	10514.8	10918.7	11221.5	10642.0	9527.7	8779.8	8776.1	9078.9	8936.8
50°	11161.7	11165.5	11251.5	11718.9	12504.1	12208.7	10944.8	10215.7	10174.5	10324.1	10096.0
52.5°	11606.7	11554.3	11490.8	12055.4	13491.3	14183.0	12739.7	11842.3	11808.6	11718.9	11659.0
55°	11139.3	11158.0	11154.2	11741.3	14011.0	16265.8	15043.1	13633.4	13577.3	13296.8	13379.1
57.5°	9639.8	9580.0	9710.9	10627.0	13416.5	17686.7	18337.4	15891.9	15746.1	14815.0	14628.0
60°	7175.7	7194.3	7302.8	8383.4	11939.5	17985.9	21489.6	18543.0	17914.8	15884.4	15626.4
62.5°	5010.6	4973.2	5014.4	5620.1	8536.7	16789.3	23620.9	21766.3	21160.5	17099.7	16950.1
65°	3586.0	3537.3	3701.9	4072.1	5126.5	12836.9	23923.8	26058.9	25516.8	19040.3	18681.4
67.5°	2580.1	2572.6	2763.3	3436.4	3642.0	7392.5	21680.3	29947.8	29618.7	21343.7	19735.8
69°	2135.1	2138.9	2322.1	3077.4	3477.5	5048.0	18655.2	30617.1	30557.3	22532.8	19537.7
70°	1862.2	1877.1	2090.3	2864.3	3410.2	4150.6	16082.6	29959.0	29899.2	22764.7	18883.3
72.5°	1148.0	1159.2	1439.6	2295.9	3241.9	3387.8	9617.4	24510.9	24716.6	21702.7	16269.5
75°	549.7	553.4	755.3	1660.2	3126.0	3212.0	5152.7	18086.8	18520.6	17522.2	12713.5
77.5°	291.7	291.7	362.7	882.5	2531.5	3021.3	3058.7	12758.4	13117.3	11079.4	7228.0
80°	145.8	149.6	220.6	459.9	1570.5	2961.5	2389.4	7609.4	7803.8	4520.8	2251.0
82.5°	56.1	59.8	104.7	276.7	815.2	2501.6	2097.7	3743.0	3694.4	1058.2	549.7
85°	7.5	7.5	37.4	164.5	347.8	1103.1	1731.3	1563.0	1510.7	231.8	265.5
87.5°	0.0	0.0	7.5	48.6	104.7	321.6	669.3	430.0	478.6	63.6	130.9
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°	6988.7	6988.7	6988.7	6988.7	6988.7	6988.7	6988.7	6988.7	6988.7	6988.7	6988.7
2.5°	7097.1	7018.6	6898.9	6783.0	6659.6	6510.1	6345.5	6285.7	6181.0	6173.5	6233.4
5°	7089.6	6962.5	6753.1	6506.3	6154.8	5889.3	5601.4	5392.0	5231.2	5126.5	5152.7
7.5°	7127.0	6973.7	6611.0	6080.0	5627.6	5100.4	4655.4	4348.8	4068.3	3930.0	3915.0
10°	7067.2	6861.6	6330.6	5586.5	4920.9	4184.2	3533.6	3122.3	2703.5	2550.2	2557.7
12.5°	7100.9	6812.9	6027.7	5077.9	4161.8	3204.6	2426.8	1865.9	1473.3	1346.1	1331.2
15°	7123.3	6708.2	5736.0	4468.4	3320.5	2183.7	1406.0	1058.2	934.8	912.4	908.6
17.5°	7037.3	6581.1	5324.7	3866.4	2460.4	1327.4	934.8	863.8	841.3	826.4	818.9
20°	7033.6	6506.3	4969.5	3249.4	1641.5	904.9	807.7	781.5	747.9	736.6	736.6
22.5°	6970.0	6349.3	4543.2	2572.6	1047.0	777.8	725.4	684.3	646.9	631.9	628.2
25°	6951.3	6166.1	4143.1	1933.2	796.5	695.5	643.2	583.3	538.5	516.0	504.8
27.5°	6898.9	6009.0	3739.3	1361.1	695.5	620.7	553.4	489.8	437.5	403.8	400.1
30°	6712.0	5844.5	3290.6	942.3	631.9	549.7	474.9	400.1	347.8	325.3	317.8
32.5°	6633.5	5691.2	2800.7	725.4	575.8	486.1	400.1	332.8	291.7	269.2	265.5
35°	6540.0	5466.8	2325.8	631.9	523.5	422.5	336.5	280.4	246.8	228.1	228.1
37.5°	6551.2	5287.3	1880.9	572.1	467.4	362.7	287.9	239.3	209.4	190.7	190.7
40°	6517.5	5145.2	1462.1	519.8	415.1	310.4	243.1	201.9	175.7	157.0	153.3
42.5°	6670.9	5107.8	1103.1	474.9	362.7	265.5	209.4	172.0	145.8	123.4	123.4
45°	6928.9	5167.7	860.0	433.8	310.4	228.1	179.5	142.1	115.9	101.0	97.2
47.5°	7616.9	5403.2	673.1	400.1	265.5	198.2	149.6	115.9	93.5	78.5	74.8
50°	8615.3	5930.5	572.1	351.5	224.4	168.3	123.4	89.7	74.8	59.8	56.1
52.5°	10036.2	6816.7	519.8	310.4	187.0	138.4	97.2	71.0	56.1	44.9	41.1
55°	11584.2	7923.5	471.1	261.7	157.0	112.2	78.5	56.1	41.1	29.9	26.2
57.5°	12792.0	8880.8	430.0	216.9	127.1	89.7	59.8	41.1	29.9	18.7	15.0
60°	14112.0	9553.8	377.7	172.0	104.7	67.3	44.9	29.9	22.4	11.2	11.2
62.5°	15473.1	10342.8	310.4	134.6	82.3	52.3	33.7	22.4	15.0	3.7	3.7
65°	17365.2	10959.8	239.3	104.7	63.6	37.4	26.2	18.7	7.5	0.0	0.0
67.5°	17899.9	10656.9	175.7	82.3	44.9	26.2	18.7	11.2	3.7	0.0	0.0
69°	17365.2	9598.7	153.3	71.0	37.4	22.4	15.0	7.5	3.7	0.0	0.0
70°	16389.2	8776.1	134.6	59.8	33.7	22.4	11.2	7.5	3.7	0.0	0.0
72.5°	13708.2	6730.7	104.7	44.9	26.2	18.7	11.2	7.5	0.0	0.0	0.0
75°	10054.9	4158.1	78.5	33.7	22.4	15.0	11.2	7.5	0.0	0.0	0.0
77.5°	5388.3	1518.1	56.1	22.4	15.0	11.2	11.2	7.5	0.0	0.0	0.0
80°	1477.0	448.7	41.1	15.0	11.2	7.5	7.5	3.7	0.0	0.0	0.0
82.5°	403.8	115.9	26.2	15.0	11.2	7.5	3.7	0.0	0.0	0.0	0.0
85°	216.9	44.9	15.0	11.2	7.5	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	112.2	15.0	11.2	7.5	7.5	3.7	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)