

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: P484107

Luminaire Tested: **IFLD-M-SA4D-760-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484107
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-760-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

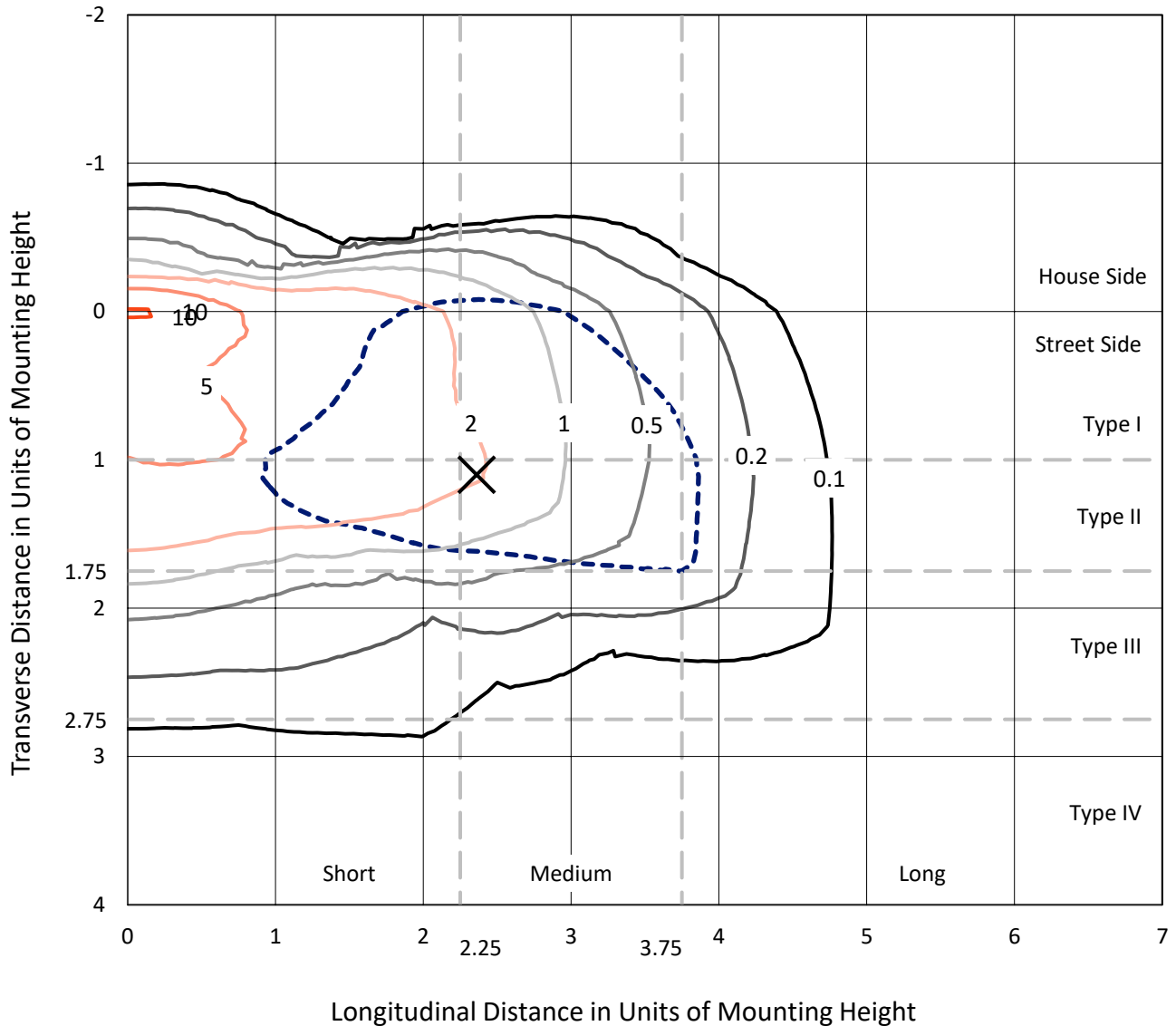
Lumens per Lamp: N/A
Luminaire Lumens: 26338 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

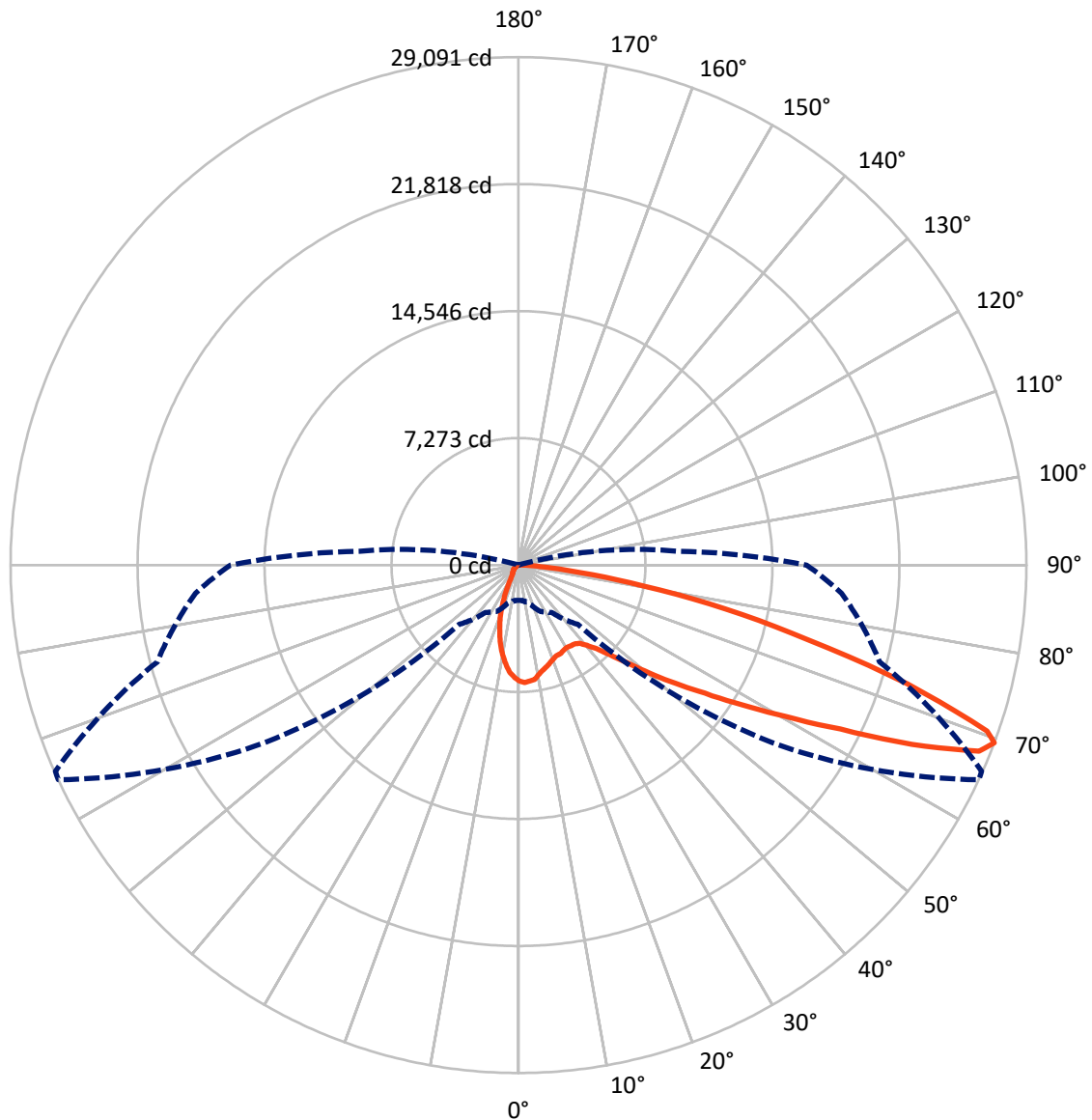
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	3195.0	0.0	3195.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	23143.0	0.0	23143.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	26338.0	0.0	26338.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.4	2.1
10°-20°	1189.0	4.5
20°-30°	1655.3	6.3
30°-40°	2345.7	8.9
40°-50°	3696.7	14.0
50°-60°	5998.5	22.8
60°-70°	6699.2	25.4
70°-80°	3772.4	14.3
80°-90°	437.7	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°	26338.0	100.0
0°-180°	26338.0	100.0



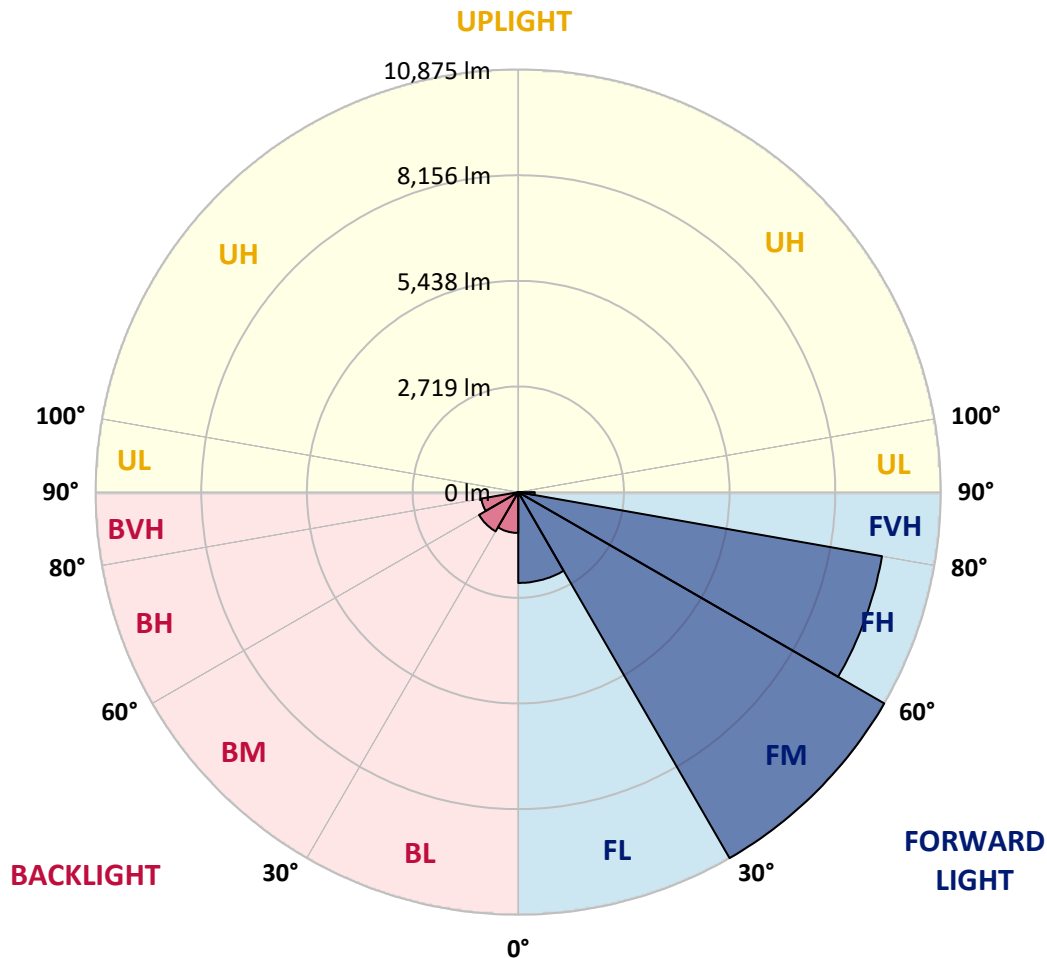
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2337.2	8.9			
FM (30°-60°)	10875.2	41.3			
FH (60°-80°)	9504.9	36.1			G4/12000
FVH (80°-90°)	425.7	1.6			G3/500
BL (0°-30°)	1050.4	4.0	B3/2500		
BM (30°-60°)	1165.8	4.4	B2/2500		
BH (60°-80°)	966.7	3.7	B2/1000		G2/1000
BVH (80°-90°)	12.1	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°	6640.4	6640.4	6640.4	6640.4	6640.4	6640.4	6640.4	6640.4	6640.4	6640.4	6640.4
2.5°	6395.3	6445.0	6459.2	6509.0	6533.8	6640.4	6700.8	6736.3	6718.6	6757.7	6761.2
5°	5940.5	5912.1	5986.7	6040.0	6153.7	6338.4	6526.7	6672.4	6739.9	6803.8	6793.2
7.5°	5453.7	5439.5	5514.1	5634.9	5738.0	5961.8	6263.8	6622.6	6608.4	6764.8	6810.9
10°	5119.8	5134.0	5158.8	5279.6	5432.4	5659.8	6036.4	6370.4	6445.0	6775.4	6867.8
12.5°	4814.2	4839.1	4885.3	5009.6	5187.3	5421.8	5787.7	6178.5	6292.2	6715.0	6899.8
15°	4714.7	4657.9	4750.3	4842.6	5027.4	5237.0	5546.1	6032.9	6082.6	6644.0	6953.1
17.5°	4633.0	4597.5	4640.1	4714.7	4910.1	5080.7	5372.0	5876.5	5968.9	6615.5	6946.0
20°	4657.9	4625.9	4643.7	4700.5	4789.3	4949.2	5219.2	5727.3	5826.8	6484.1	6935.3
22.5°	4728.9	4753.8	4721.8	4736.0	4764.5	4846.2	5137.5	5620.7	5706.0	6459.2	6995.7
25°	5048.7	5006.1	4963.4	4945.7	4778.7	4814.2	5112.7	5613.6	5674.0	6370.4	6946.0
27.5°	5382.7	5347.1	5329.4	5226.3	4999.0	4892.4	5116.2	5514.1	5595.8	6334.9	6885.6
30°	5787.7	5833.9	5762.8	5638.5	5322.3	5059.4	5155.3	5464.4	5578.1	6199.8	6846.5
32.5°	6214.1	6238.9	6274.5	6182.1	5773.5	5311.6	5272.5	5510.6	5517.7	6199.8	6757.7
35°	6697.3	6661.7	6754.1	6761.2	6402.4	5759.3	5496.4	5542.6	5617.2	6171.4	6725.7
37.5°	7112.9	7173.3	7279.9	7450.5	7081.0	6391.7	5844.6	5691.8	5723.8	6302.9	6750.5
40°	7567.7	7628.1	7869.7	8040.3	7830.6	7102.3	6373.9	6040.0	6064.8	6498.3	6878.5
42.5°	8068.7	8185.9	8473.7	8772.2	8715.3	8004.7	7056.1	6551.6	6540.9	6985.0	7141.4
45°	8747.3	8903.6	9216.3	9560.9	9610.6	9038.6	7965.6	7315.5	7351.0	7621.0	7685.0
47.5°	9692.4	9685.3	9990.8	10374.5	10662.3	10111.6	9052.8	8342.3	8338.7	8626.5	8491.5
50°	10605.5	10609.0	10690.7	11134.9	11881.0	11600.3	10399.4	9706.6	9667.5	9809.6	9592.9
52.5°	11028.3	10978.5	10918.1	11454.6	12818.9	13476.2	12104.8	11252.1	11220.1	11134.9	11078.0
55°	10584.2	10601.9	10598.4	11156.2	13312.8	15455.2	14293.4	12953.9	12900.7	12634.2	12712.3
57.5°	9159.4	9102.6	9226.9	10097.4	12747.9	16805.3	17423.5	15099.9	14961.3	14076.7	13899.0
60°	6818.1	6835.8	6938.9	7965.6	11344.5	17089.5	20418.6	17618.9	17022.0	15092.8	14847.7
62.5°	4760.9	4725.4	4764.5	5340.0	8111.3	15952.6	22443.8	20681.6	20106.0	16247.5	16105.4
65°	3407.3	3361.1	3517.4	3869.1	4871.1	12197.2	22731.6	24760.3	24245.1	18091.5	17750.4
67.5°	2451.5	2444.4	2625.6	3265.1	3460.5	7024.1	20599.8	28455.3	28142.7	20280.1	18752.3
69°	2028.7	2032.3	2206.4	2924.1	3304.2	4796.4	17725.5	29091.3	29034.5	21409.9	18564.0
70°	1769.4	1783.6	1986.1	2721.5	3240.3	3943.7	15281.1	28466.0	28409.2	21630.2	17942.2
72.5°	1090.7	1101.4	1367.9	2181.5	3080.4	3218.9	9138.1	23289.4	23484.8	20621.2	15458.8
75°	522.3	525.8	717.7	1577.5	2970.2	3052.0	4895.9	17185.5	17597.6	16649.0	12079.9
77.5°	277.1	277.1	344.6	838.5	2405.3	2870.8	2906.3	12122.6	12463.6	10527.3	6867.8
80°	138.6	142.1	209.6	437.0	1492.2	2813.9	2270.3	7230.2	7414.9	4295.5	2138.9
82.5°	53.3	56.8	99.5	262.9	774.5	2376.9	1993.2	3556.5	3510.3	1005.5	522.3
85°	7.1	7.1	35.5	156.3	330.4	1048.1	1645.0	1485.1	1435.4	220.3	252.3
87.5°	0.0	0.0	7.1	46.2	99.5	305.6	636.0	408.6	454.8	60.4	124.4
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°	6640.4	6640.4	6640.4	6640.4	6640.4	6640.4	6640.4	6640.4	6640.4	6640.4	6640.4
2.5°	6743.4	6668.8	6555.1	6445.0	6327.8	6185.6	6029.3	5972.5	5873.0	5865.9	5922.7
5°	6736.3	6615.5	6416.6	6182.1	5848.1	5595.8	5322.3	5123.3	4970.5	4871.1	4895.9
7.5°	6771.9	6626.2	6281.6	5777.0	5347.1	4846.2	4423.4	4132.0	3865.6	3734.1	3719.9
10°	6715.0	6519.6	6015.1	5308.1	4675.6	3975.7	3357.5	2966.7	2568.8	2423.1	2430.2
12.5°	6747.0	6473.4	5727.3	4824.9	3954.4	3044.9	2305.8	1772.9	1399.9	1279.1	1264.8
15°	6768.3	6373.9	5450.2	4245.7	3155.0	2074.9	1335.9	1005.5	888.2	866.9	863.4
17.5°	6686.6	6253.1	5059.4	3673.7	2337.8	1261.3	888.2	820.7	799.4	785.2	778.1
20°	6683.0	6182.1	4721.8	3087.5	1559.7	859.8	767.4	742.6	710.6	699.9	699.9
22.5°	6622.6	6032.9	4316.8	2444.4	994.8	739.0	689.3	650.2	614.7	600.4	596.9
25°	6604.9	5858.8	3936.6	1836.9	756.8	660.8	611.1	554.3	511.6	490.3	479.6
27.5°	6555.1	5709.5	3552.9	1293.3	660.8	589.8	525.8	465.4	415.7	383.7	380.2
30°	6377.5	5553.2	3126.6	895.3	600.4	522.3	451.2	380.2	330.4	309.1	302.0
32.5°	6302.9	5407.5	2661.1	689.3	547.1	461.9	380.2	316.2	277.1	255.8	252.3
35°	6214.1	5194.4	2209.9	600.4	497.4	401.5	319.8	266.5	234.5	216.7	216.7
37.5°	6224.7	5023.8	1787.1	543.6	444.1	344.6	273.6	227.4	199.0	181.2	181.2
40°	6192.7	4888.8	1389.2	493.9	394.4	294.9	230.9	191.9	167.0	149.2	145.7
42.5°	6338.4	4853.3	1048.1	451.2	344.6	252.3	199.0	163.4	138.6	117.2	117.2
45°	6583.6	4910.1	817.2	412.1	294.9	216.7	170.5	135.0	110.1	95.9	92.4
47.5°	7237.3	5134.0	639.5	380.2	252.3	188.3	142.1	110.1	88.8	74.6	71.1
50°	8185.9	5634.9	543.6	334.0	213.2	159.9	117.2	85.3	71.1	56.8	53.3
52.5°	9536.0	6477.0	493.9	294.9	177.6	131.5	92.4	67.5	53.3	42.6	39.1
55°	11006.9	7528.6	447.7	248.7	149.2	106.6	74.6	53.3	39.1	28.4	24.9
57.5°	12154.5	8438.2	408.6	206.1	120.8	85.3	56.8	39.1	28.4	17.8	14.2
60°	13408.7	9077.7	358.8	163.4	99.5	64.0	42.6	28.4	21.3	10.7	10.7
62.5°	14702.0	9827.4	294.9	127.9	78.2	49.7	32.0	21.3	14.2	3.6	3.6
65°	16499.8	10413.6	227.4	99.5	60.4	35.5	24.9	17.8	7.1	0.0	0.0
67.5°	17007.8	10125.8	167.0	78.2	42.6	24.9	17.8	10.7	3.6	0.0	0.0
69°	16499.8	9120.3	145.7	67.5	35.5	21.3	14.2	7.1	3.6	0.0	0.0
70°	15572.5	8338.7	127.9	56.8	32.0	21.3	10.7	7.1	3.6	0.0	0.0
72.5°	13025.0	6395.3	99.5	42.6	24.9	17.8	10.7	7.1	0.0	0.0	0.0
75°	9553.8	3950.8	74.6	32.0	21.3	14.2	10.7	7.1	0.0	0.0	0.0
77.5°	5119.8	1442.5	53.3	21.3	14.2	10.7	10.7	7.1	0.0	0.0	0.0
80°	1403.4	426.4	39.1	14.2	10.7	7.1	7.1	3.6	0.0	0.0	0.0
82.5°	383.7	110.1	24.9	14.2	10.7	7.1	3.6	0.0	0.0	0.0	0.0
85°	206.1	42.6	14.2	10.7	7.1	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	106.6	14.2	10.7	7.1	7.1	3.6	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)