

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: P484031

Luminaire Tested: **IFLD-L-SA7A-740-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484031
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

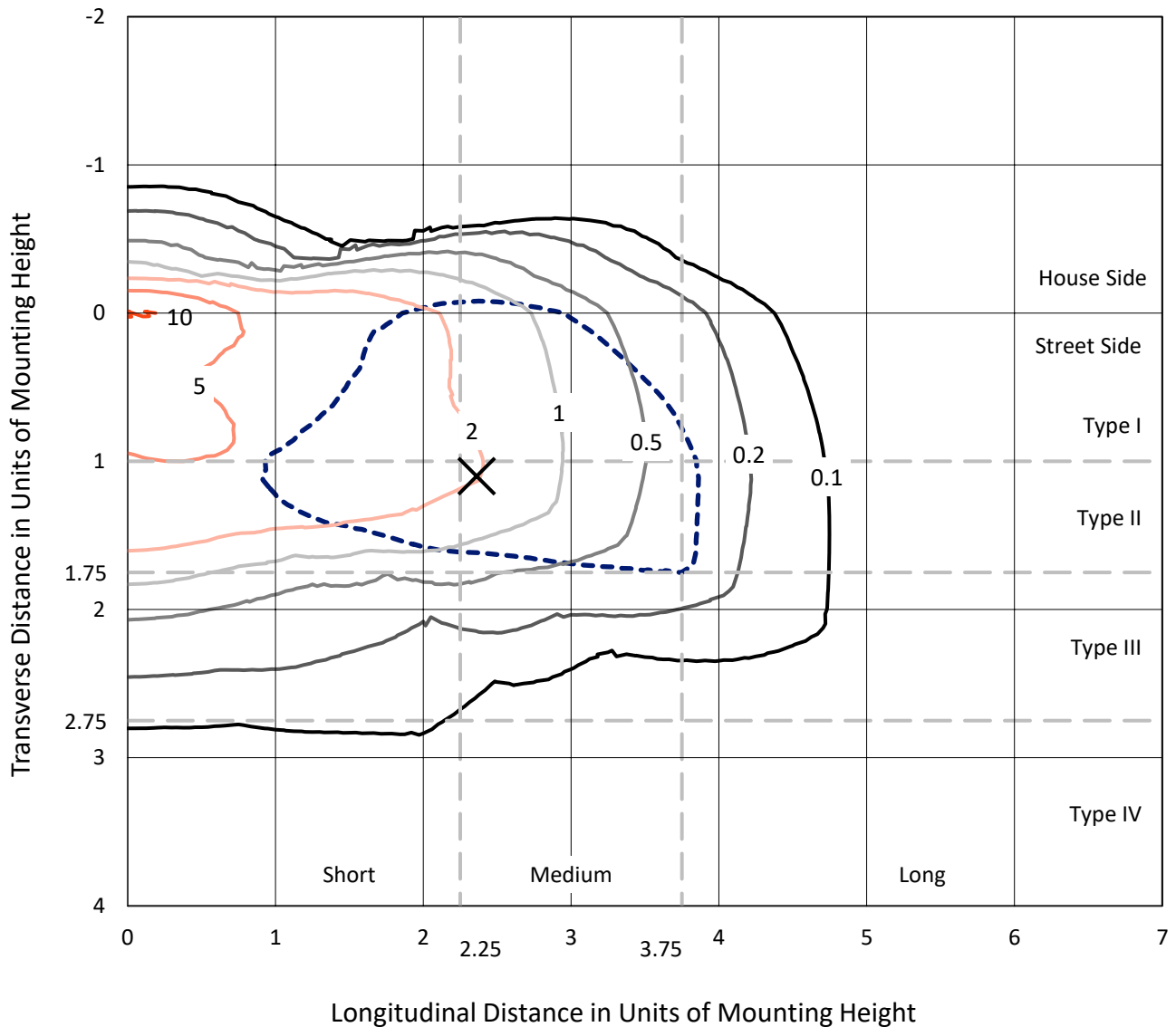
Lumens per Lamp: N/A
Luminaire Lumens: 25762 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

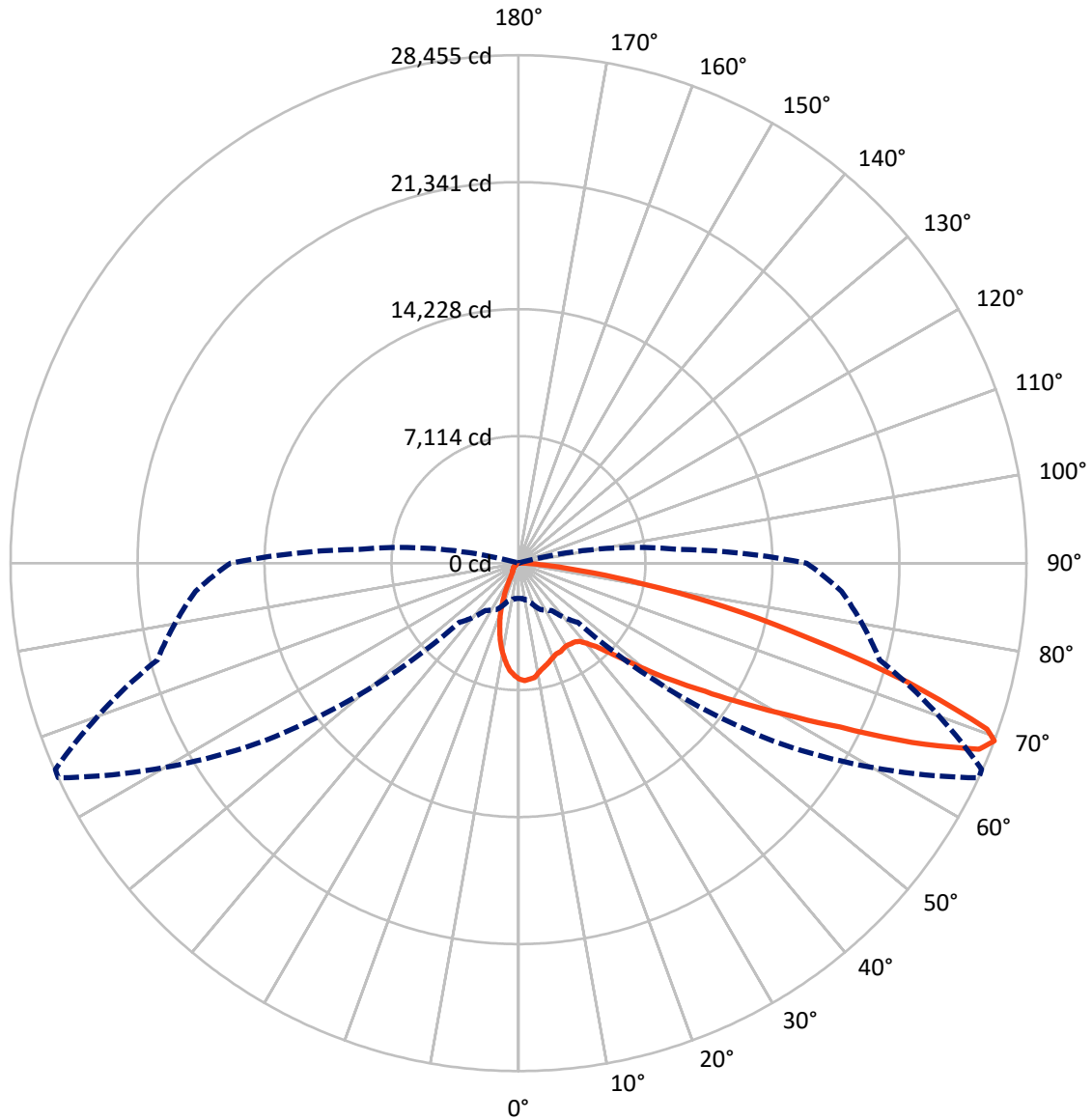
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	3125.1	0.0	3125.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	22636.9	0.0	22636.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	25762.0	0.0	25762.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.5	2.1
10°-20°	1162.9	4.5
20°-30°	1619.1	6.3
30°-40°	2294.4	8.9
40°-50°	3615.9	14.0
50°-60°	5867.4	22.8
60°-70°	6552.7	25.4
70°-80°	3689.9	14.3
80°-90°	428.2	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°	25762.0	100.0
0°-180°	25762.0	100.0



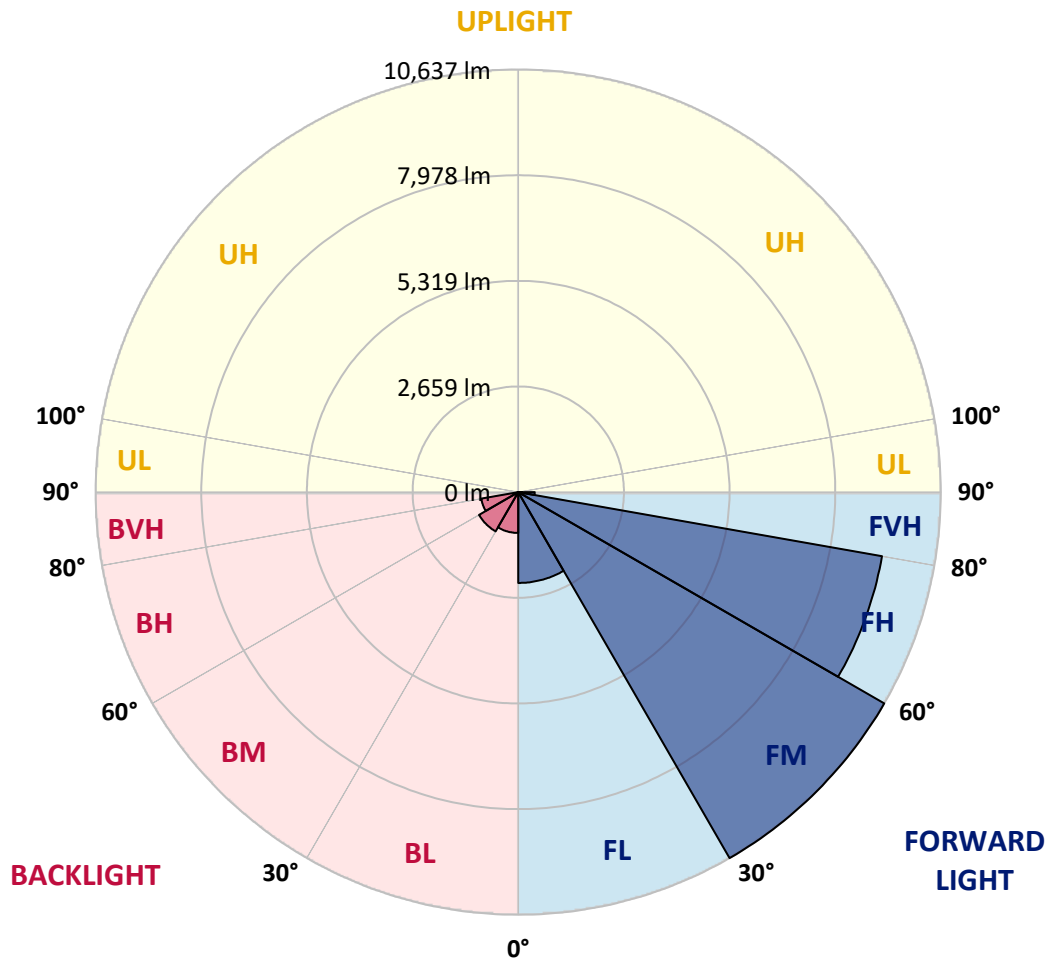
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2286.1	8.9			
FM (30°-60°)	10637.4	41.3			
FH (60°-80°)	9297.1	36.1			G4/12000
FVH (80°-90°)	416.4	1.6			G3/500
BL (0°-30°)	1027.4	4.0	B3/2500		
BM (30°-60°)	1140.3	4.4	B2/2500		
BH (60°-80°)	945.5	3.7	B2/1000		G2/1000
BVH (80°-90°)	11.8	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°	6495.2	6495.2	6495.2	6495.2	6495.2	6495.2	6495.2	6495.2	6495.2	6495.2	6495.2
2.5°	6255.4	6304.1	6318.0	6366.6	6390.9	6495.2	6554.3	6589.0	6571.6	6609.9	6613.3
5°	5810.6	5782.8	5855.7	5907.9	6019.1	6199.8	6384.0	6526.5	6592.5	6655.1	6644.6
7.5°	5334.5	5320.6	5393.5	5511.7	5612.5	5831.4	6126.8	6477.8	6463.9	6616.8	6662.0
10°	5007.8	5021.7	5046.0	5164.2	5313.6	5536.0	5904.4	6231.1	6304.1	6627.2	6717.6
12.5°	4708.9	4733.3	4778.4	4900.1	5073.8	5303.2	5661.1	6043.4	6154.6	6568.2	6748.9
15°	4611.6	4556.0	4646.4	4736.7	4917.4	5122.5	5424.8	5900.9	5949.6	6498.7	6801.0
17.5°	4531.7	4496.9	4538.6	4611.6	4802.8	4969.6	5254.5	5748.0	5838.4	6470.9	6794.1
20°	4556.0	4524.7	4542.1	4597.7	4684.6	4841.0	5105.1	5602.1	5699.4	6342.3	6783.6
22.5°	4625.5	4649.8	4618.6	4632.5	4660.3	4740.2	5025.2	5497.8	5581.2	6318.0	6842.7
25°	4938.3	4896.6	4854.9	4837.5	4674.2	4708.9	5000.8	5490.9	5549.9	6231.1	6794.1
27.5°	5265.0	5230.2	5212.8	5112.1	4889.6	4785.4	5004.3	5393.5	5473.5	6196.3	6735.0
30°	5661.1	5706.3	5636.8	5515.2	5205.9	4948.7	5042.5	5344.9	5456.1	6064.3	6696.8
32.5°	6078.2	6102.5	6137.2	6046.9	5647.2	5195.5	5157.2	5390.1	5397.0	6064.3	6609.9
35°	6550.8	6516.0	6606.4	6613.3	6262.4	5633.3	5376.2	5421.3	5494.3	6036.5	6578.6
37.5°	6957.4	7016.5	7120.7	7287.5	6926.1	6251.9	5716.7	5567.3	5598.6	6165.0	6602.9
40°	7402.2	7461.3	7697.6	7864.4	7659.4	6947.0	6234.5	5907.9	5932.2	6356.2	6728.0
42.5°	7892.2	8006.9	8288.4	8580.3	8524.7	7829.7	6901.8	6408.3	6397.9	6832.3	6985.2
45°	8556.0	8708.9	9014.7	9351.8	9400.5	8841.0	7791.4	7155.5	7190.2	7454.4	7516.9
47.5°	9480.4	9473.5	9772.3	10147.6	10429.1	9890.5	8854.9	8159.8	8156.3	8437.8	8305.8
50°	10373.5	10377.0	10456.9	10891.3	11621.1	11346.6	10172.0	9494.3	9456.1	9595.1	9383.1
52.5°	10787.1	10738.4	10679.4	11204.1	12538.6	13181.5	11840.1	11006.0	10974.8	10891.3	10835.7
55°	10352.7	10370.1	10366.6	10912.2	13021.7	15117.2	13980.8	12670.7	12618.5	12357.9	12434.3
57.5°	8959.1	8903.5	9025.2	9876.6	12469.1	16437.8	17042.5	14769.7	14634.2	13768.8	13595.1
60°	6669.0	6686.3	6787.1	7791.4	11096.4	16715.8	19972.1	17233.6	16649.8	14762.7	14523.0
62.5°	4656.8	4622.0	4660.3	5223.3	7933.9	15603.7	21953.0	20229.3	19666.3	15892.2	15753.2
65°	3332.7	3287.6	3440.5	3784.5	4764.5	11930.4	22234.5	24218.8	23714.9	17695.8	17362.2
67.5°	2397.9	2391.0	2568.2	3193.7	3384.9	6870.5	20149.3	27833.1	27527.2	19836.6	18342.2
69°	1984.4	1987.8	2158.1	2860.1	3232.0	4691.6	17337.9	28455.1	28399.5	20941.7	18158.0
70°	1730.7	1744.6	1942.6	2662.0	3169.4	3857.5	14946.9	27843.5	27787.9	21157.2	17549.9
72.5°	1066.9	1077.3	1338.0	2133.8	3013.0	3148.6	8938.3	22780.1	22971.2	20170.2	15120.7
75°	510.9	514.3	702.0	1543.0	2905.3	2985.2	4788.9	16809.7	17212.8	16284.9	11815.8
77.5°	271.1	271.1	337.1	820.2	2352.7	2808.0	2842.7	11857.5	12191.1	10297.1	6717.6
80°	135.5	139.0	205.0	427.5	1459.6	2752.4	2220.7	7072.1	7252.8	4201.5	2092.1
82.5°	52.1	55.6	97.3	257.2	757.6	2324.9	1949.6	3478.7	3433.5	983.5	510.9
85°	7.0	7.0	34.8	152.9	323.2	1025.2	1609.0	1452.6	1404.0	215.5	246.7
87.5°	0.0	0.0	7.0	45.2	97.3	298.9	622.1	399.7	444.8	59.1	121.6
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°	6495.2	6495.2	6495.2	6495.2	6495.2	6495.2	6495.2	6495.2	6495.2	6495.2	6495.2
2.5°	6596.0	6523.0	6411.8	6304.1	6189.4	6050.4	5897.5	5841.8	5744.5	5737.6	5793.2
5°	6589.0	6470.9	6276.3	6046.9	5720.2	5473.5	5205.9	5011.3	4861.8	4764.5	4788.9
7.5°	6623.8	6481.3	6144.2	5650.7	5230.2	4740.2	4326.7	4041.7	3781.0	3652.5	3638.6
10°	6568.2	6377.0	5883.6	5192.0	4573.4	3888.8	3284.1	2901.8	2512.6	2370.1	2377.1
12.5°	6599.4	6331.9	5602.1	4719.4	3867.9	2978.3	2255.4	1734.1	1369.2	1251.1	1237.2
15°	6620.3	6234.5	5331.0	4152.9	3086.0	2029.5	1306.7	983.5	868.8	848.0	844.5
17.5°	6540.4	6116.4	4948.7	3593.4	2286.7	1233.7	868.8	802.8	781.9	768.0	761.1
20°	6536.9	6046.9	4618.6	3020.0	1525.6	841.0	750.6	726.3	695.0	684.6	684.6
22.5°	6477.8	5900.9	4222.4	2391.0	973.1	722.8	674.2	636.0	601.2	587.3	583.8
25°	6460.4	5730.6	3850.5	1796.7	740.2	646.4	597.7	542.1	500.4	479.6	469.2
27.5°	6411.8	5584.7	3475.2	1265.0	646.4	576.9	514.3	455.3	406.6	375.3	371.8
30°	6238.0	5431.8	3058.2	875.8	587.3	510.9	441.4	371.8	323.2	302.3	295.4
32.5°	6165.0	5289.3	2602.9	674.2	535.2	451.8	371.8	309.3	271.1	250.2	246.7
35°	6078.2	5080.8	2161.6	587.3	486.5	392.7	312.8	260.6	229.4	212.0	212.0
37.5°	6088.6	4914.0	1748.0	531.7	434.4	337.1	267.6	222.4	194.6	177.2	177.2
40°	6057.3	4781.9	1358.8	483.1	385.7	288.4	225.9	187.7	163.3	146.0	142.5
42.5°	6199.8	4747.2	1025.2	441.4	337.1	246.7	194.6	159.9	135.5	114.7	114.7
45°	6439.6	4802.8	799.3	403.1	288.4	212.0	166.8	132.1	107.7	93.8	90.4
47.5°	7079.0	5021.7	625.5	371.8	246.7	184.2	139.0	107.7	86.9	73.0	69.5
50°	8006.9	5511.7	531.7	326.7	208.5	156.4	114.7	83.4	69.5	55.6	52.1
52.5°	9327.5	6335.3	483.1	288.4	173.8	128.6	90.4	66.0	52.1	41.7	38.2
55°	10766.2	7364.0	437.9	243.3	146.0	104.3	73.0	52.1	38.2	27.8	24.3
57.5°	11888.7	8253.7	399.7	201.6	118.2	83.4	55.6	38.2	27.8	17.4	13.9
60°	13115.5	8879.2	351.0	159.9	97.3	62.6	41.7	27.8	20.9	10.4	10.4
62.5°	14380.5	9612.5	288.4	125.1	76.5	48.7	31.3	20.9	13.9	3.5	3.5
65°	16138.9	10185.9	222.4	97.3	59.1	34.8	24.3	17.4	7.0	0.0	0.0
67.5°	16635.9	9904.4	163.3	76.5	41.7	24.3	17.4	10.4	3.5	0.0	0.0
69°	16138.9	8920.9	142.5	66.0	34.8	20.9	13.9	7.0	3.5	0.0	0.0
70°	15231.9	8156.3	125.1	55.6	31.3	20.9	10.4	7.0	3.5	0.0	0.0
72.5°	12740.2	6255.4	97.3	41.7	24.3	17.4	10.4	7.0	0.0	0.0	0.0
75°	9344.9	3864.4	73.0	31.3	20.9	13.9	10.4	7.0	0.0	0.0	0.0
77.5°	5007.8	1410.9	52.1	20.9	13.9	10.4	10.4	7.0	0.0	0.0	0.0
80°	1372.7	417.0	38.2	13.9	10.4	7.0	7.0	3.5	0.0	0.0	0.0
82.5°	375.3	107.7	24.3	13.9	10.4	7.0	3.5	0.0	0.0	0.0	0.0
85°	201.6	41.7	13.9	10.4	7.0	3.5	0.0	0.0	0.0	0.0	0.0
87.5°	104.3	13.9	10.4	7.0	7.0	3.5	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)