

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: P484114

Luminaire Tested: **IFLD-L-SA8A-760-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484114
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-760-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

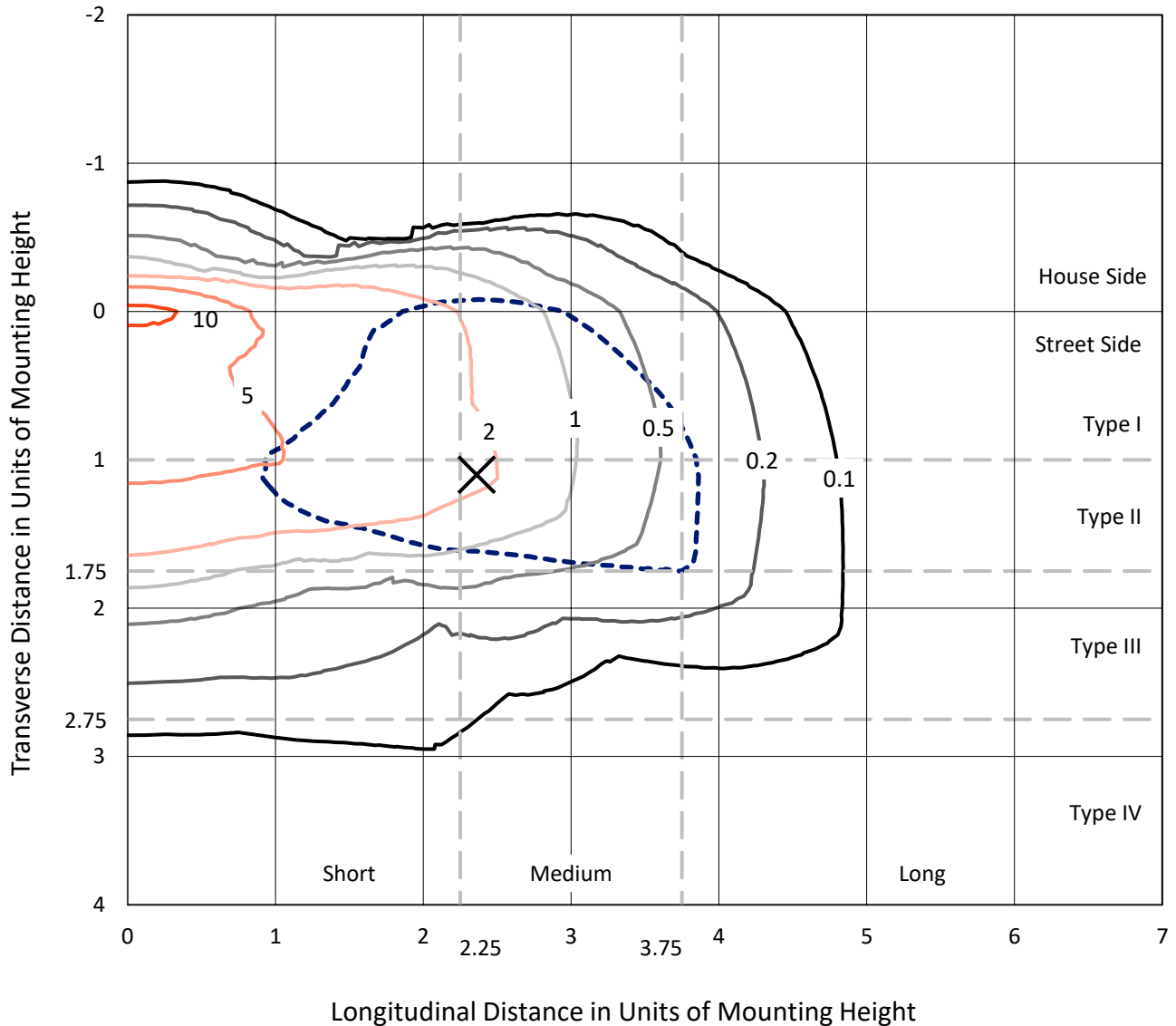
Lumens per Lamp: N/A
Luminaire Lumens: 28840.3 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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

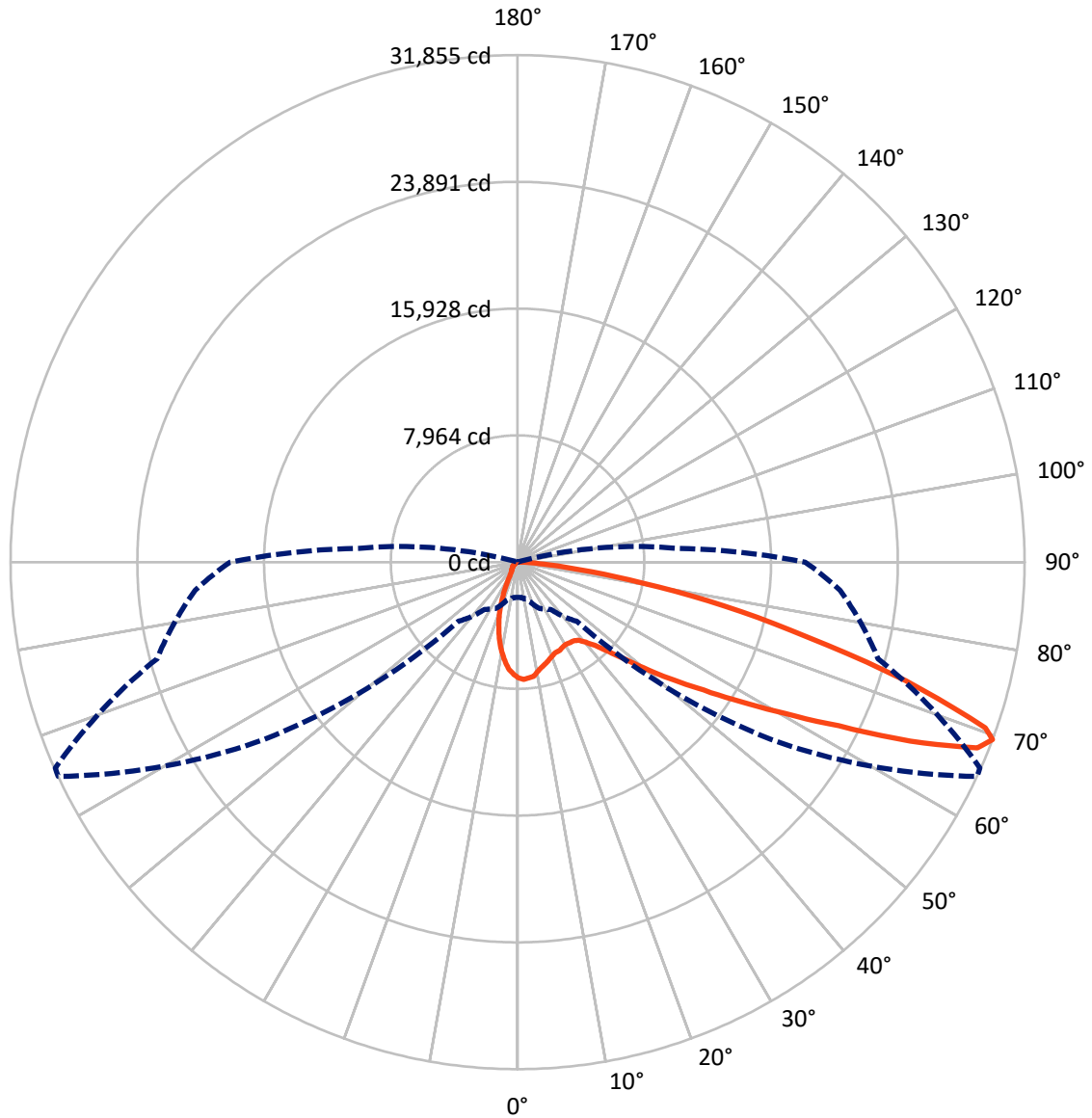
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	3498.5	0.0	3498.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	25341.8	0.0	25341.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	28840.3	0.0	28840.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.0	2.1
10°-20°	1301.9	4.5
20°-30°	1812.6	6.3
30°-40°	2568.6	8.9
40°-50°	4048.0	14.0
50°-60°	6568.5	22.8
60°-70°	7335.7	25.4
70°-80°	4130.8	14.3
80°-90°	479.3	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°	28840.3	100.0
0°-180°	28840.3	100.0



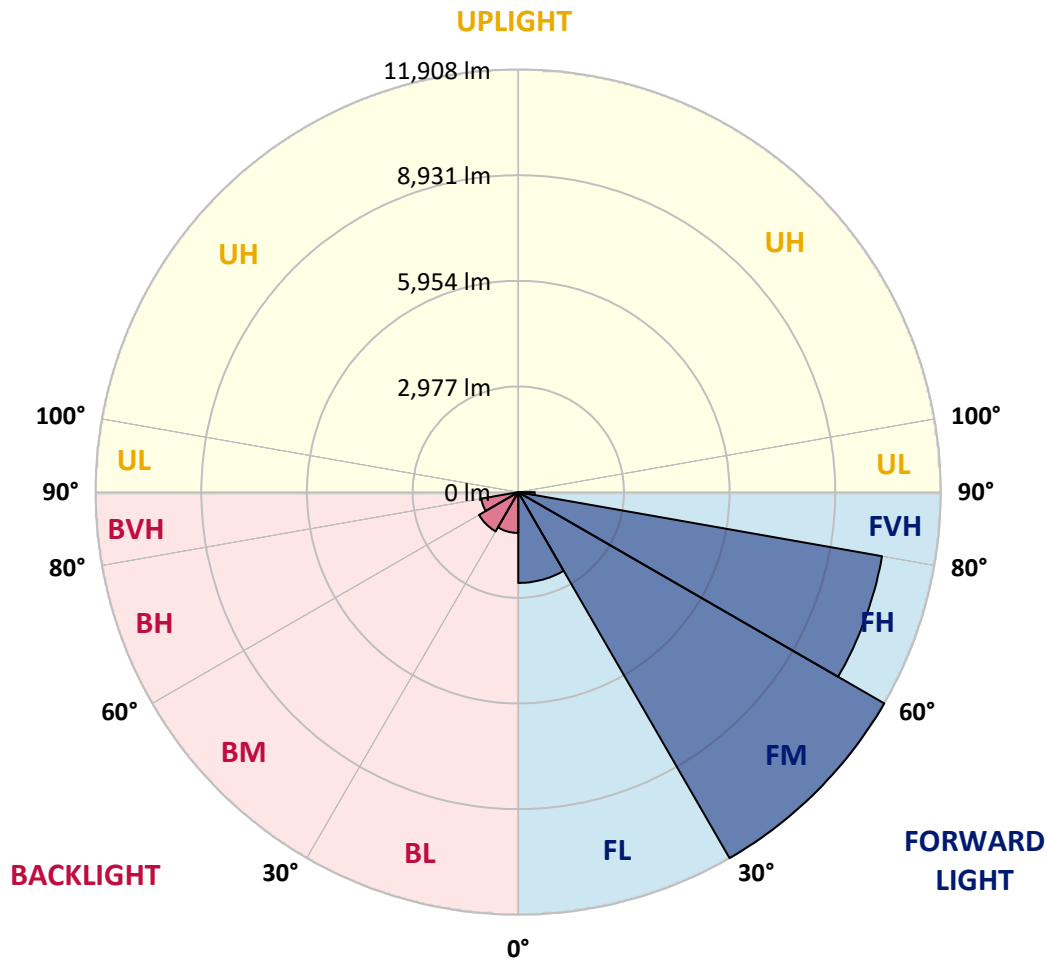
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2559.3	8.9			
FM (30°-60°)	11908.4	41.3			
FH (60°-80°)	10408.0	36.1			G4/12000
FVH (80°-90°)	466.1	1.6			G3/500
BL (0°-30°)	1150.2	4.0	B3/2500		
BM (30°-60°)	1276.6	4.4	B2/2500		
BH (60°-80°)	1058.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	13.2	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°	7271.3	7271.3	7271.3	7271.3	7271.3	7271.3	7271.3	7271.3	7271.3	7271.3	7271.3
2.5°	7002.9	7057.3	7072.9	7127.4	7154.6	7271.3	7337.5	7376.4	7356.9	7399.7	7403.6
5°	6504.9	6473.8	6555.5	6613.8	6738.3	6940.6	7146.8	7306.3	7380.3	7450.3	7438.6
7.5°	5971.9	5956.3	6038.0	6170.3	6283.1	6528.2	6858.9	7251.9	7236.3	7407.5	7458.1
10°	5606.2	5621.8	5649.0	5781.3	5948.6	6197.5	6609.9	6975.6	7057.3	7419.2	7520.3
12.5°	5271.6	5298.8	5349.4	5485.6	5680.1	5936.9	6337.6	6765.6	6890.1	7353.0	7555.3
15°	5162.7	5100.4	5201.6	5302.7	5505.0	5734.6	6073.0	6606.0	6660.5	7275.2	7613.7
17.5°	5073.2	5034.3	5081.0	5162.7	5376.7	5563.4	5882.4	6434.9	6536.0	7244.1	7605.9
20°	5100.4	5065.4	5084.9	5147.1	5244.4	5419.4	5715.1	6271.5	6380.4	7100.1	7594.2
22.5°	5178.2	5205.5	5170.5	5186.0	5217.1	5306.6	5625.6	6154.7	6248.1	7072.9	7660.4
25°	5528.4	5481.7	5435.0	5415.6	5232.7	5271.6	5598.4	6147.0	6213.1	6975.6	7605.9
27.5°	5894.1	5855.2	5835.7	5722.9	5473.9	5357.2	5602.3	6038.0	6127.5	6936.7	7539.8
30°	6337.6	6388.2	6310.4	6174.2	5827.9	5540.1	5645.1	5983.6	6108.1	6788.9	7497.0
32.5°	6804.5	6831.7	6870.6	6769.4	6322.0	5816.3	5773.5	6034.1	6041.9	6788.9	7399.7
35°	7333.6	7294.7	7395.8	7403.6	7010.7	6306.5	6018.6	6069.2	6150.9	6757.8	7364.7
37.5°	7788.8	7854.9	7971.6	8158.3	7753.7	6999.0	6399.8	6232.6	6267.6	6901.7	7391.9
40°	8286.7	8352.9	8617.4	8804.2	8574.6	7777.1	6979.5	6613.8	6641.1	7115.7	7532.0
42.5°	8835.3	8963.7	9278.8	9605.6	9543.4	8765.3	7726.5	7174.1	7162.4	7648.7	7819.9
45°	9578.4	9749.6	10091.9	10469.3	10523.8	9897.4	8722.5	8010.5	8049.4	8345.1	8415.1
47.5°	10613.2	10605.5	10940.0	11360.2	11675.3	11072.3	9913.0	9134.9	9131.0	9446.1	9298.3
50°	11613.1	11617.0	11706.5	12192.8	13009.8	12702.4	11387.5	10628.8	10586.0	10741.6	10504.3
52.5°	12076.1	12021.6	11955.5	12542.9	14036.9	14756.6	13254.9	12321.2	12286.2	12192.8	12130.5
55°	11589.8	11609.2	11605.3	12216.1	14577.7	16923.6	15651.4	14184.7	14126.4	13834.6	13920.2
57.5°	10029.7	9967.4	10103.6	11056.8	13959.1	18402.0	19078.9	16534.6	16382.8	15414.1	15219.6
60°	7465.8	7485.3	7598.1	8722.5	12422.3	18713.2	22358.6	19292.9	18639.3	16526.8	16258.3
62.5°	5213.3	5174.3	5217.1	5847.4	8882.0	17468.3	24576.2	22646.5	22016.3	17791.2	17635.6
65°	3731.0	3680.4	3851.6	4236.7	5333.9	13356.0	24891.3	27112.8	26548.7	19810.4	19436.9
67.5°	2684.4	2676.7	2875.1	3575.4	3789.3	7691.5	22557.0	31158.9	30816.5	22206.9	20534.0
69°	2221.5	2225.4	2416.0	3201.9	3618.2	5252.2	19409.6	31855.3	31793.1	23444.1	20327.8
70°	1937.5	1953.0	2174.8	2980.1	3548.1	4318.4	16733.0	31170.6	31108.3	23685.3	19647.0
72.5°	1194.4	1206.1	1497.8	2388.8	3373.1	3524.8	10006.3	25502.1	25716.1	22580.4	16927.5
75°	571.9	575.8	785.9	1727.4	3252.4	3341.9	5361.1	18818.3	19269.6	18230.8	13227.7
77.5°	303.5	303.5	377.4	918.2	2633.9	3143.5	3182.4	13274.3	13647.8	11527.5	7520.3
80°	151.7	155.6	229.5	478.5	1634.0	3081.3	2486.0	7917.1	8119.4	4703.6	2342.1
82.5°	58.4	62.2	108.9	287.9	848.1	2602.7	2182.6	3894.4	3843.8	1101.0	571.9
85°	7.8	7.8	38.9	171.2	361.8	1147.7	1801.3	1626.2	1571.8	241.2	276.2
87.5°	0.0	0.0	7.8	50.6	108.9	334.6	696.4	447.4	498.0	66.1	136.2
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°	7271.3	7271.3	7271.3	7271.3	7271.3	7271.3	7271.3	7271.3	7271.3	7271.3	7271.3
2.5°	7384.1	7302.4	7177.9	7057.3	6929.0	6773.3	6602.2	6539.9	6431.0	6423.2	6485.4
5°	7376.4	7244.1	7026.2	6769.4	6403.7	6127.5	5827.9	5610.1	5442.8	5333.9	5361.1
7.5°	7415.3	7255.8	6878.4	6325.9	5855.2	5306.6	4843.7	4524.6	4232.8	4088.9	4073.3
10°	7353.0	7139.0	6586.6	5812.4	5119.9	4353.5	3676.5	3248.6	2812.8	2653.3	2661.1
12.5°	7388.0	7088.5	6271.5	5283.3	4330.1	3334.1	2524.9	1941.4	1532.9	1400.6	1385.0
15°	7411.4	6979.5	5968.0	4649.1	3454.8	2272.0	1462.8	1101.0	972.6	949.3	945.4
17.5°	7321.9	6847.3	5540.1	4022.8	2559.9	1381.1	972.6	898.7	875.4	859.8	852.0
20°	7318.0	6769.4	5170.5	3380.8	1707.9	941.5	840.3	813.1	778.1	766.4	766.4
22.5°	7251.9	6606.0	4726.9	2676.7	1089.3	809.2	754.8	712.0	673.1	657.5	653.6
25°	7232.4	6415.4	4310.7	2011.4	828.7	723.6	669.2	606.9	560.2	536.9	525.2
27.5°	7177.9	6252.0	3890.5	1416.1	723.6	645.8	575.8	509.7	455.2	420.2	416.3
30°	6983.4	6080.8	3423.6	980.4	657.5	571.9	494.1	416.3	361.8	338.5	330.7
32.5°	6901.7	5921.3	2914.0	754.8	599.1	505.8	416.3	346.3	303.5	280.1	276.2
35°	6804.5	5687.9	2419.9	657.5	544.7	439.6	350.1	291.8	256.8	237.3	237.3
37.5°	6816.1	5501.1	1956.9	595.2	486.3	377.4	299.6	249.0	217.9	198.4	198.4
40°	6781.1	5353.3	1521.2	540.8	431.8	322.9	252.9	210.1	182.9	163.4	159.5
42.5°	6940.6	5314.4	1147.7	494.1	377.4	276.2	217.9	179.0	151.7	128.4	128.4
45°	7209.1	5376.7	894.8	451.3	322.9	237.3	186.7	147.8	120.6	105.0	101.2
47.5°	7924.9	5621.8	700.3	416.3	276.2	206.2	155.6	120.6	97.3	81.7	77.8
50°	8963.7	6170.3	595.2	365.7	233.4	175.1	128.4	93.4	77.8	62.2	58.4
52.5°	10442.1	7092.4	540.8	322.9	194.5	143.9	101.2	73.9	58.4	46.7	42.8
55°	12052.7	8243.9	490.2	272.3	163.4	116.7	81.7	58.4	42.8	31.1	27.2
57.5°	13309.4	9239.9	447.4	225.6	132.3	93.4	62.2	42.8	31.1	19.5	15.6
60°	14682.7	9940.2	392.9	179.0	108.9	70.0	46.7	31.1	23.3	11.7	11.7
62.5°	16098.8	10761.1	322.9	140.1	85.6	54.5	35.0	23.3	15.6	3.9	3.9
65°	18067.4	11403.0	249.0	108.9	66.1	38.9	27.2	19.5	7.8	0.0	0.0
67.5°	18623.8	11087.9	182.9	85.6	46.7	27.2	19.5	11.7	3.9	0.0	0.0
69°	18067.4	9986.9	159.5	73.9	38.9	23.3	15.6	7.8	3.9	0.0	0.0
70°	17052.0	9131.0	140.1	62.2	35.0	23.3	11.7	7.8	3.9	0.0	0.0
72.5°	14262.5	7002.9	108.9	46.7	27.2	19.5	11.7	7.8	0.0	0.0	0.0
75°	10461.5	4326.2	81.7	35.0	23.3	15.6	11.7	7.8	0.0	0.0	0.0
77.5°	5606.2	1579.5	58.4	23.3	15.6	11.7	11.7	7.8	0.0	0.0	0.0
80°	1536.7	466.9	42.8	15.6	11.7	7.8	7.8	3.9	0.0	0.0	0.0
82.5°	420.2	120.6	27.2	15.6	11.7	7.8	3.9	0.0	0.0	0.0	0.0
85°	225.6	46.7	15.6	11.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	116.7	15.6	11.7	7.8	7.8	3.9	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)