

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: P484568

Luminaire Tested: **IFLD-S-SA6B-830-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484568
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-830-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3
distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

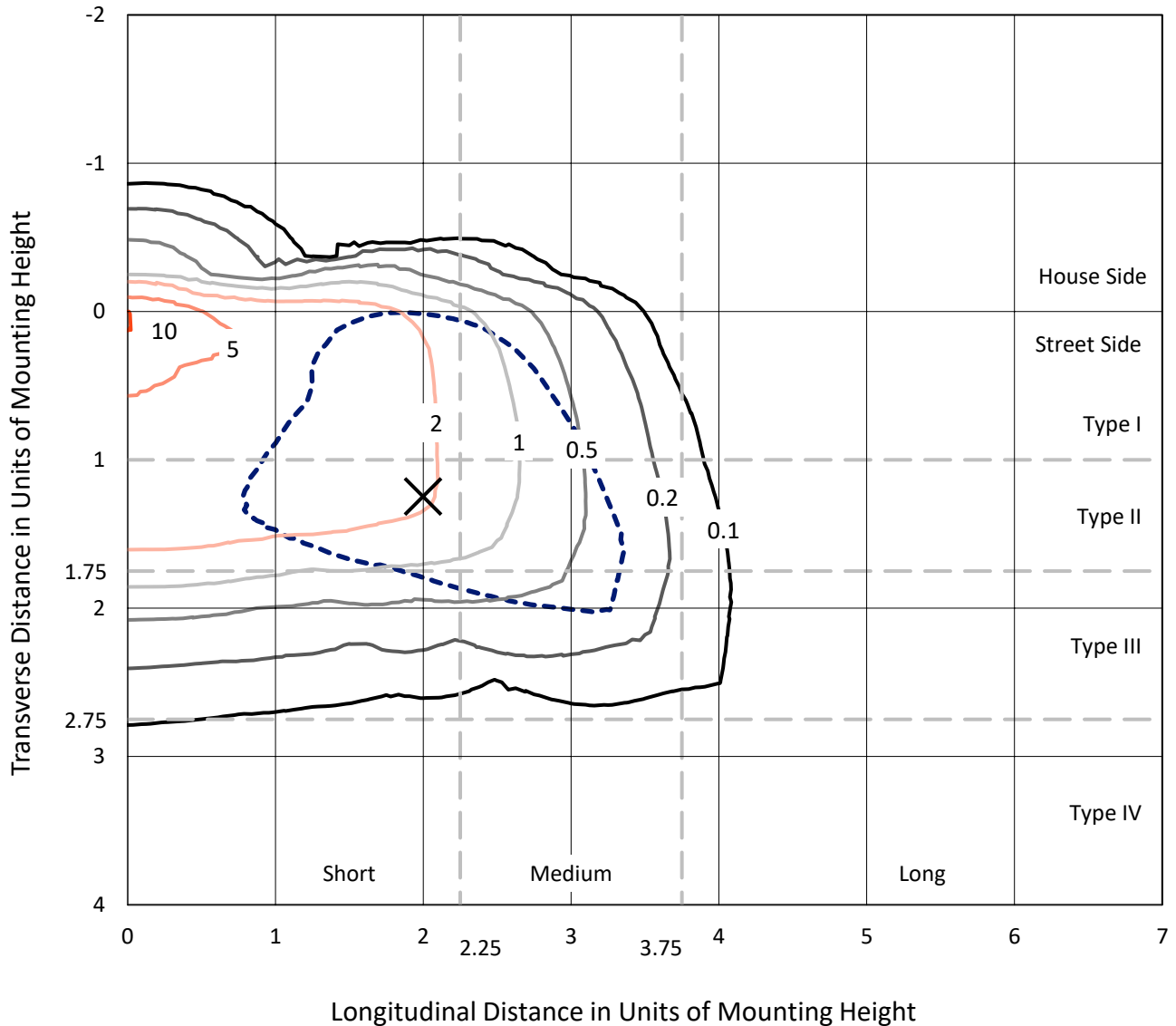
Lumens per Lamp: N/A
Luminaire Lumens: 22181.5 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9
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

REPORT NUMBER: P484568
 CATALOG NUMBER: IFLD-S-SA6B-830-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

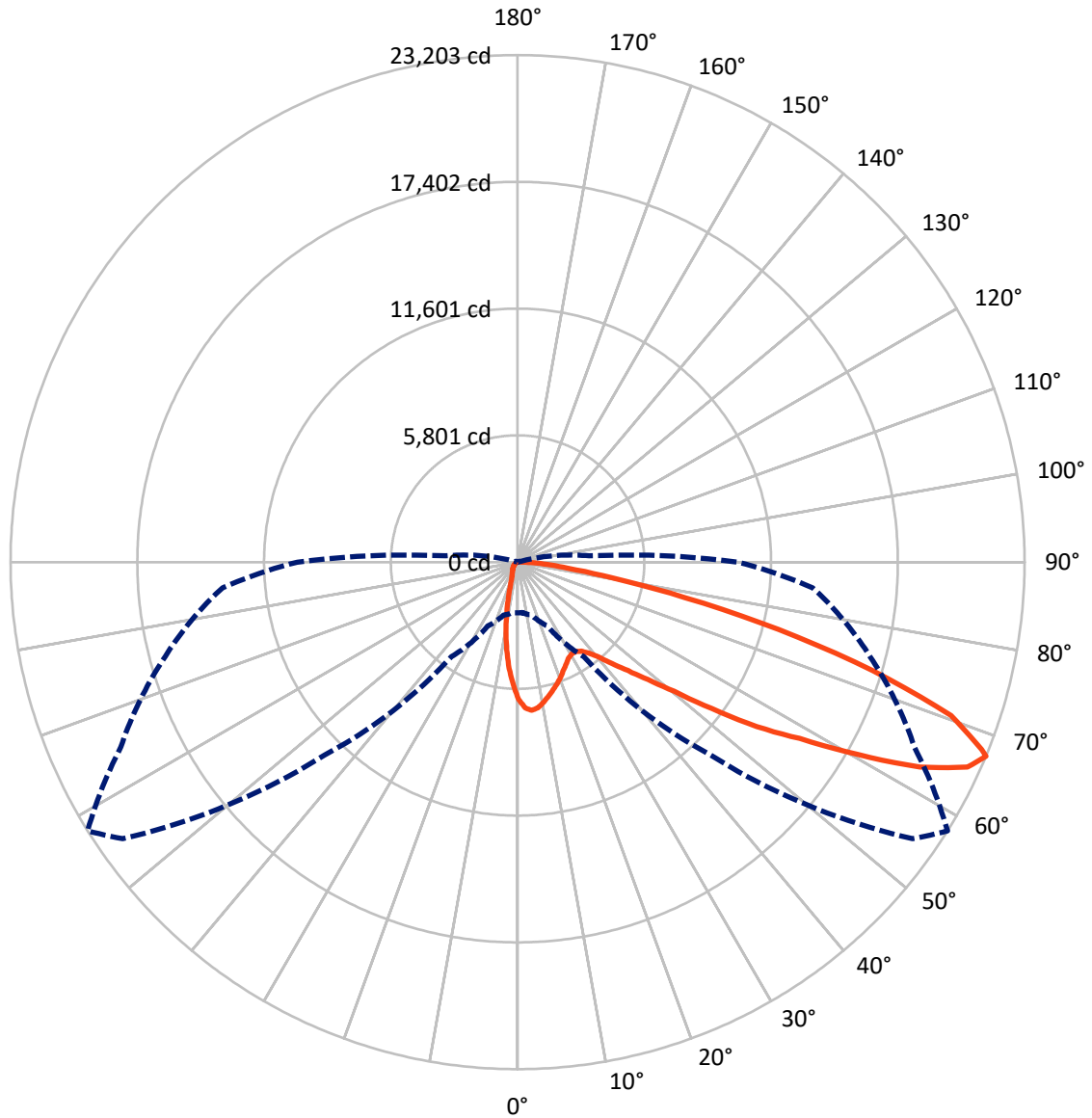
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Short - N/A

REPORT NUMBER: P484568
CATALOG NUMBER: IFLD-S-SA6B-830-U-SL3-HSS

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	1833.4	0.0	1833.4
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	20348.0	0.0	20348.0
	% Fixture	91.7	0.0	91.7
Total	Lumens	22181.5	0.0	22181.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.6	2.2
10°-20°	1034.3	4.7
20°-30°	1372.2	6.2
30°-40°	1901.5	8.6
40°-50°	3102.7	14.0
50°-60°	5453.5	24.6
60°-70°	6040.2	27.2
70°-80°	2503.0	11.3
80°-90°	275.5	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°	22181.5	100.0
0°-180°	22181.5	100.0

Coefficient of Utilization

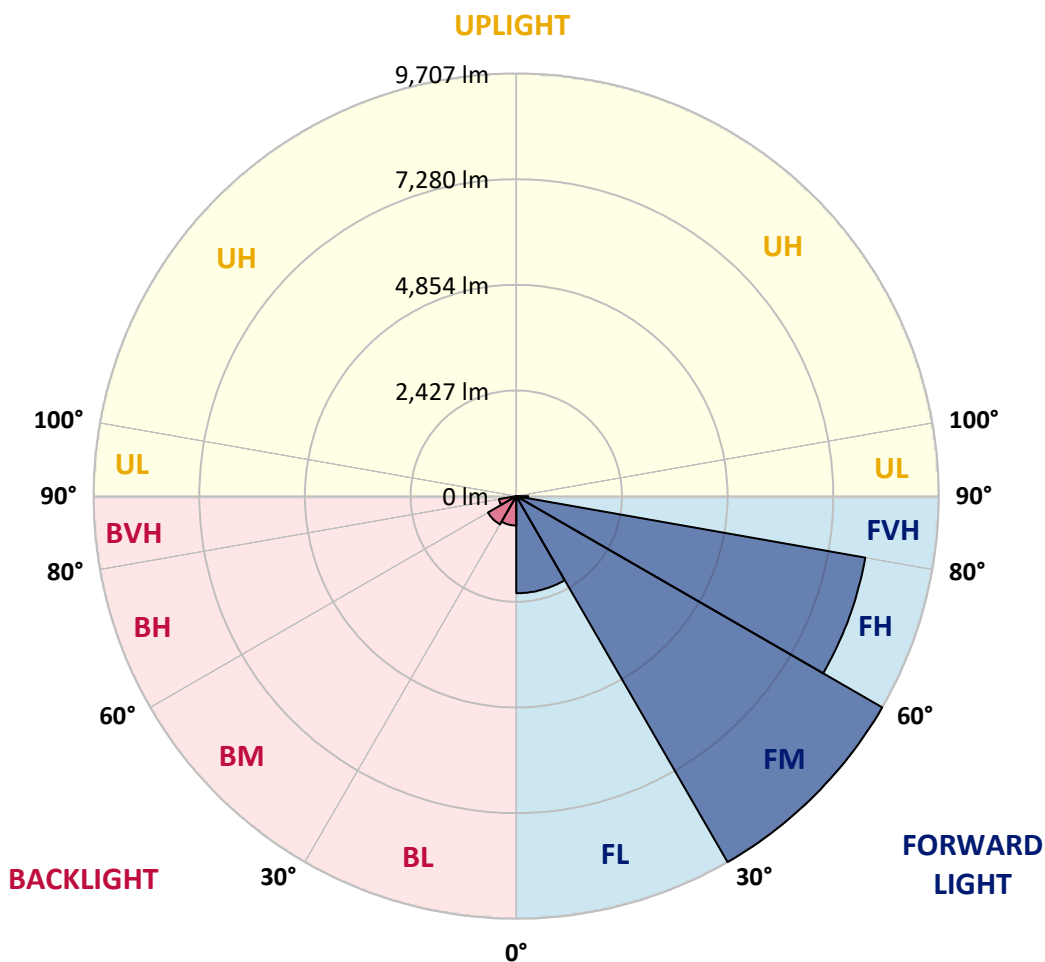


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2229.9	10.1			
FM (30°-60°)	9707.1	43.8			
FH (60°-80°)	8140.1	36.7			G4/12000
FVH (80°-90°)	271.0	1.2			G3/500
BL (0°-30°)	675.3	3.0	B2/1000		
BM (30°-60°)	750.5	3.4	B1/1000		
BH (60°-80°)	403.1	1.8	B1/500		G1/500
BVH (80°-90°)	4.5	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





REPORT NUMBER: P484568

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3
2.5°	6837.9	6861.5	6882.1	6843.8	6876.2	6829.1	6708.4	6681.9	6661.3	6481.6	6378.5
5°	6835.0	6808.5	6829.1	6846.8	6802.6	6837.9	6808.5	6811.4	6731.9	6570.0	6281.4
7.5°	6378.5	6366.8	6378.5	6463.9	6561.1	6637.7	6681.9	6726.0	6673.0	6431.6	6151.8
10°	5763.1	5822.0	5854.4	6007.5	6157.7	6299.0	6437.4	6519.9	6505.2	6408.0	6010.4
12.5°	5333.1	5315.5	5433.3	5533.4	5683.6	5969.2	6210.7	6287.3	6375.6	6240.1	5824.9
15°	4935.6	4888.5	4959.1	5132.9	5389.1	5615.8	5954.5	6069.3	6181.2	6216.6	5724.8
17.5°	4555.7	4579.2	4652.9	4808.9	5050.4	5368.5	5686.5	5851.4	6119.4	6072.3	5574.6
20°	4373.1	4423.2	4449.7	4529.2	4697.0	5015.1	5489.2	5621.7	5907.4	6069.3	5427.4
22.5°	4381.9	4381.9	4320.1	4367.2	4520.3	4767.7	5221.2	5368.5	5822.0	5916.2	5294.8
25°	4476.2	4417.3	4420.2	4364.3	4429.1	4564.5	4979.7	5159.4	5648.2	5930.9	5224.2
27.5°	4546.9	4535.1	4517.4	4502.7	4420.2	4440.8	4820.7	4968.0	5580.5	5913.3	5115.2
30°	4803.1	4750.0	4732.4	4700.0	4591.0	4490.9	4694.1	4879.6	5527.5	5954.5	5053.4
32.5°	5018.0	5026.9	5041.6	4947.4	4853.1	4605.7	4729.4	4876.7	5489.2	6048.7	5115.2
35°	5289.0	5327.2	5333.1	5303.7	5203.6	4959.1	4876.7	5003.3	5554.0	6216.6	5121.1
37.5°	5701.2	5660.0	5771.9	5783.7	5713.0	5389.1	5218.3	5268.3	5745.4	6484.6	5344.9
40°	5969.2	6019.3	6228.4	6357.9	6237.2	5942.7	5713.0	5704.2	6022.2	6905.7	5621.7
42.5°	6266.6	6378.5	6608.2	6888.0	6873.3	6599.4	6366.8	6328.5	6514.0	7515.3	6060.5
45°	6673.0	6773.2	7094.1	7515.3	7745.0	7512.3	7161.9	7085.3	7111.8	8345.7	6808.5
47.5°	7347.4	7320.9	7783.2	8198.5	8575.4	8395.8	8245.6	8021.8	8001.2	9323.4	7842.1
50°	8110.1	8104.2	8516.5	8987.7	9423.5	9774.0	9523.6	9279.2	9285.1	10651.5	9058.4
52.5°	8834.6	8949.4	9394.1	9862.3	10610.3	10987.2	11228.7	11131.5	10663.3	11838.3	10360.0
55°	9217.4	9317.5	9759.2	10566.1	11747.0	12715.9	13369.6	13287.2	12383.1	13175.3	11643.9
57.5°	8855.2	8922.9	9520.7	10577.9	12542.1	14703.6	15330.9	15227.8	14161.8	14197.1	13195.9
60°	7338.6	7444.6	8333.9	9573.7	12232.9	16235.0	18031.3	17875.2	15781.5	15489.9	14194.2
62.5°	5082.8	5153.5	5883.8	7426.9	10766.4	16768.0	20581.6	20667.0	17489.5	16497.1	14491.6
65°	3292.3	3286.5	3704.6	4750.0	7630.1	15154.2	22089.3	22619.4	19138.6	16650.2	14400.3
67°	2326.4	2317.6	2514.9	3221.7	5283.1	12486.2	22062.8	23202.5	20033.8	16694.4	13555.2
67.5°	2146.8	2138.0	2326.4	2962.5	4767.7	11611.5	21733.0	22902.1	20348.9	16632.5	13184.1
70°	1666.8	1643.2	1713.9	2040.8	2777.0	7509.4	18599.7	21038.0	19695.2	15089.4	10527.8
72.5°	1204.4	1230.9	1342.9	1675.6	2179.2	4040.3	14176.5	17012.4	16449.9	11373.0	6690.7
75°	839.3	862.8	1042.5	1366.4	1999.6	2450.1	9585.5	12338.9	11458.4	6278.4	2850.6
77.5°	438.8	468.2	665.5	1092.5	1817.0	1896.5	5727.7	7824.5	6072.3	2235.1	786.3
80°	203.2	217.9	332.8	774.5	1519.5	1666.8	3339.5	4352.5	2429.5	500.6	270.9
82.5°	88.3	97.2	153.1	444.7	1077.8	1457.7	2067.3	2282.3	880.5	162.0	167.9
85°	17.7	20.6	58.9	235.6	521.2	883.5	1451.8	1354.6	441.7	79.5	132.5
87.5°	0.0	0.0	14.7	67.7	141.4	262.1	615.5	615.5	135.5	41.2	50.1
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°	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3	6284.3
2.5°	6287.3	6181.2	5948.6	5733.6	5580.5	5406.7	5177.0	5074.0	5035.7	4982.7	4903.2
5°	6122.3	5992.8	5595.2	5194.7	4755.9	4423.2	4069.8	3863.6	3707.6	3610.4	3578.0
7.5°	5889.7	5624.7	5088.7	4446.7	3878.4	3383.6	2847.7	2485.5	2252.8	2158.6	2070.2
10°	5704.2	5359.6	4543.9	3745.9	2989.0	2264.6	1660.9	1342.9	1101.4	1010.1	998.3
12.5°	5462.7	5050.4	4034.4	3030.3	2079.1	1348.7	918.8	798.1	730.3	718.5	709.7
15°	5262.4	4770.7	3551.5	2347.0	1345.8	842.2	715.6	686.2	668.5	662.6	665.5
17.5°	5127.0	4470.3	3056.8	1708.0	886.4	689.1	659.6	642.0	633.1	630.2	621.4
20°	4859.0	4217.0	2567.9	1195.6	692.0	636.1	612.5	597.8	589.0	586.0	583.1
22.5°	4705.9	3896.0	2079.1	833.4	615.5	577.2	559.5	547.7	533.0	524.2	521.2
25°	4552.7	3660.5	1643.2	647.9	559.5	533.0	506.5	491.8	468.2	456.5	453.5
27.5°	4373.1	3427.8	1266.3	562.5	503.6	477.1	450.6	427.0	397.6	385.8	379.9
30°	4270.0	3201.1	954.1	503.6	462.3	427.0	394.6	365.2	332.8	312.2	306.3
32.5°	4217.0	2994.9	715.6	459.4	418.2	379.9	338.7	303.3	273.9	256.2	253.3
35°	4152.2	2794.7	562.5	418.2	376.9	335.7	294.5	259.1	229.7	215.0	209.1
37.5°	4220.0	2676.9	468.2	385.8	344.5	297.4	253.3	217.9	194.4	179.6	176.7
40°	4405.5	2579.7	406.4	356.3	312.2	262.1	220.9	185.5	164.9	153.1	147.2
42.5°	4691.1	2579.7	368.1	326.9	282.7	229.7	188.5	162.0	141.4	129.6	126.6
45°	5209.4	2659.2	335.7	297.4	247.4	197.3	162.0	135.5	114.8	103.1	100.1
47.5°	5936.8	2841.8	309.2	270.9	220.9	173.7	141.4	114.8	94.2	82.5	79.5
50°	6914.5	3257.0	282.7	238.5	197.3	150.2	117.8	91.3	73.6	61.8	58.9
52.5°	8133.7	3846.0	256.2	220.9	167.9	126.6	94.2	73.6	56.0	47.1	44.2
55°	9423.5	4567.5	223.8	197.3	144.3	106.0	76.6	56.0	41.2	35.3	32.4
57.5°	10722.2	5124.0	197.3	170.8	117.8	85.4	61.8	44.2	29.4	23.6	20.6
60°	11411.3	5177.0	170.8	141.4	94.2	67.7	47.1	32.4	20.6	14.7	11.8
62.5°	11517.3	4705.9	147.2	114.8	76.6	53.0	32.4	23.6	11.8	5.9	5.9
65°	10972.5	3922.5	126.6	91.3	58.9	38.3	23.6	14.7	5.9	2.9	0.0
67°	10089.1	3286.5	109.0	76.6	47.1	29.4	17.7	8.8	2.9	0.0	0.0
67.5°	9747.5	3109.8	103.1	70.7	44.2	26.5	14.7	8.8	2.9	0.0	0.0
70°	7565.3	2220.4	76.6	50.1	32.4	20.6	11.8	5.9	0.0	0.0	0.0
72.5°	4635.2	1298.7	58.9	35.3	23.6	14.7	8.8	2.9	0.0	0.0	0.0
75°	1943.6	447.6	50.1	26.5	17.7	8.8	5.9	2.9	0.0	0.0	0.0
77.5°	506.5	167.9	35.3	17.7	11.8	8.8	5.9	2.9	0.0	0.0	0.0
80°	206.1	76.6	23.6	11.8	11.8	8.8	5.9	2.9	0.0	0.0	0.0
82.5°	135.5	35.3	14.7	11.8	8.8	5.9	2.9	0.0	0.0	0.0	0.0
85°	103.1	20.6	8.8	8.8	5.9	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	44.2	11.8	8.8	5.9	5.9	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)