

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: P484372

Luminaire Tested: **IFLD-S-SA6A-735-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484372
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-735-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

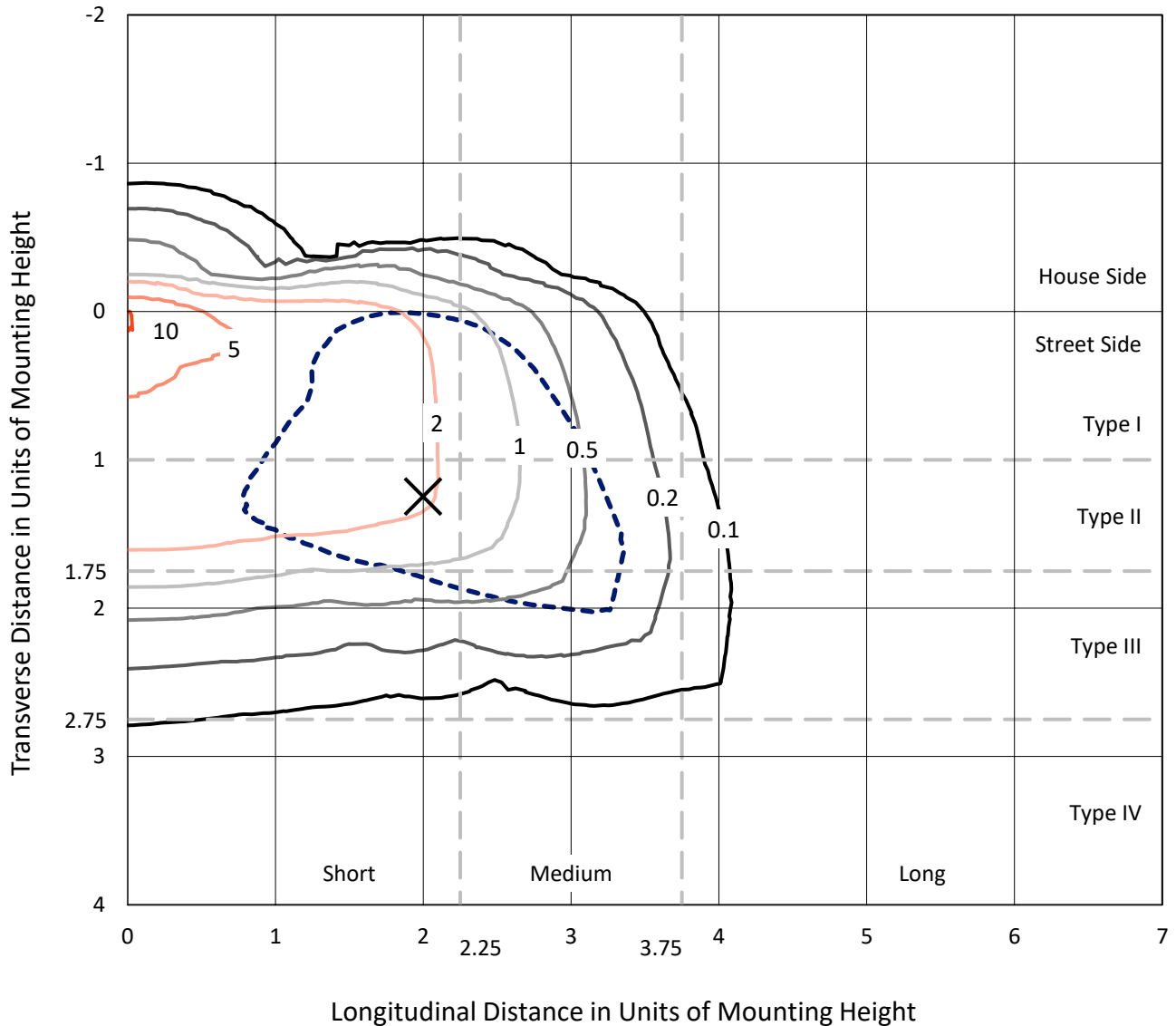
Lumens per Lamp: N/A
Luminaire Lumens: 22262.3 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 189.6
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

REPORT NUMBER: P484372
 CATALOG NUMBER: IFLD-S-SA6A-735-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

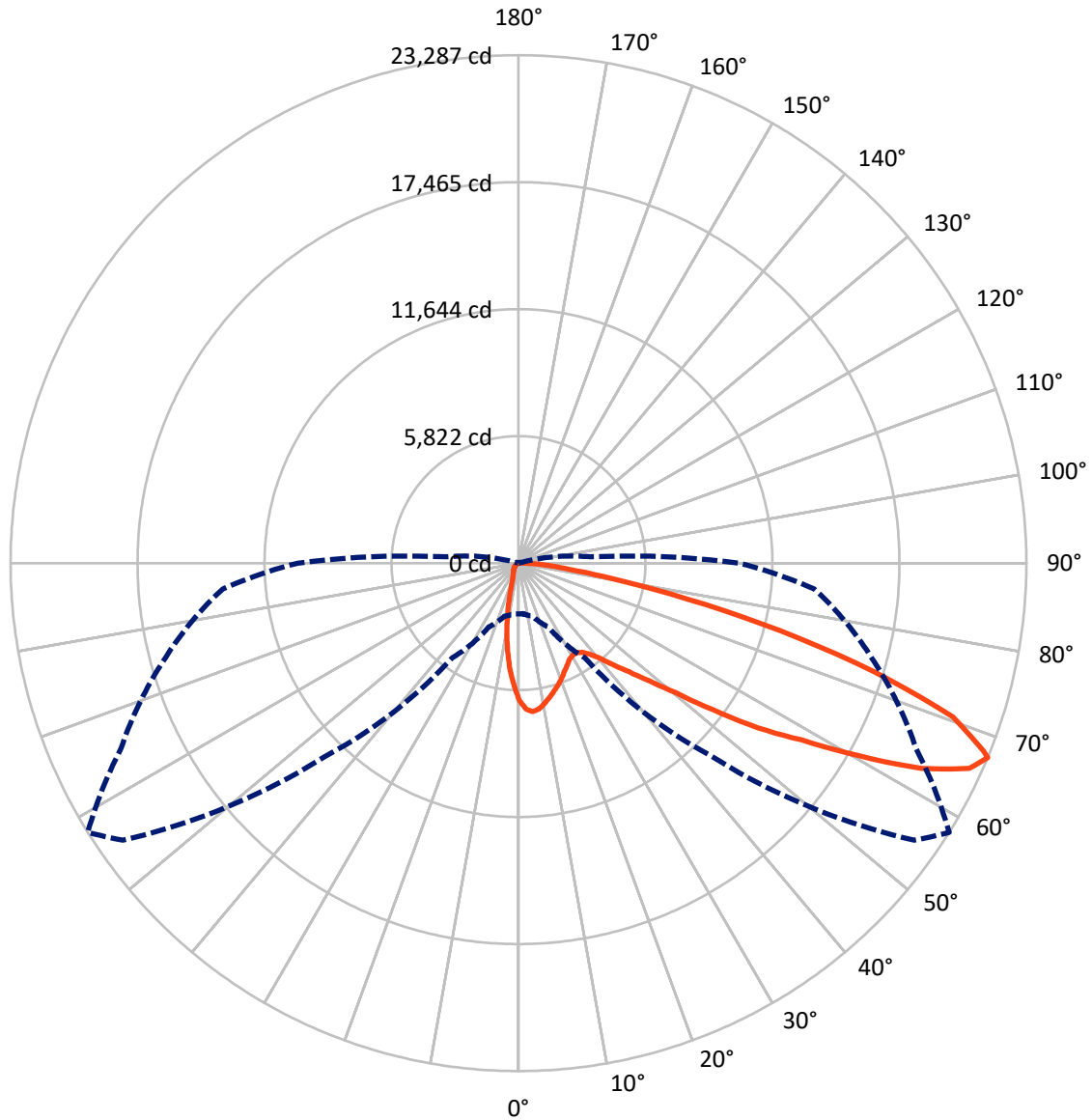
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P484372
CATALOG NUMBER: IFLD-S-SA6A-735-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P484372
 CATALOG NUMBER: IFLD-S-SA6A-735-U-SL3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1840.1	0.0	1840.1
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	20422.2	0.0	20422.2
	% Fixture	91.7	0.0	91.7
Total	Lumens	22262.3	0.0	22262.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.5	2.2
10°-20°	1038.0	4.7
20°-30°	1377.2	6.2
30°-40°	1908.4	8.6
40°-50°	3114.0	14.0
50°-60°	5473.4	24.6
60°-70°	6062.2	27.2
70°-80°	2512.2	11.3
80°-90°	276.5	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°	22262.3	100.0
0°-180°	22262.3	100.0



REPORT NUMBER: P484372

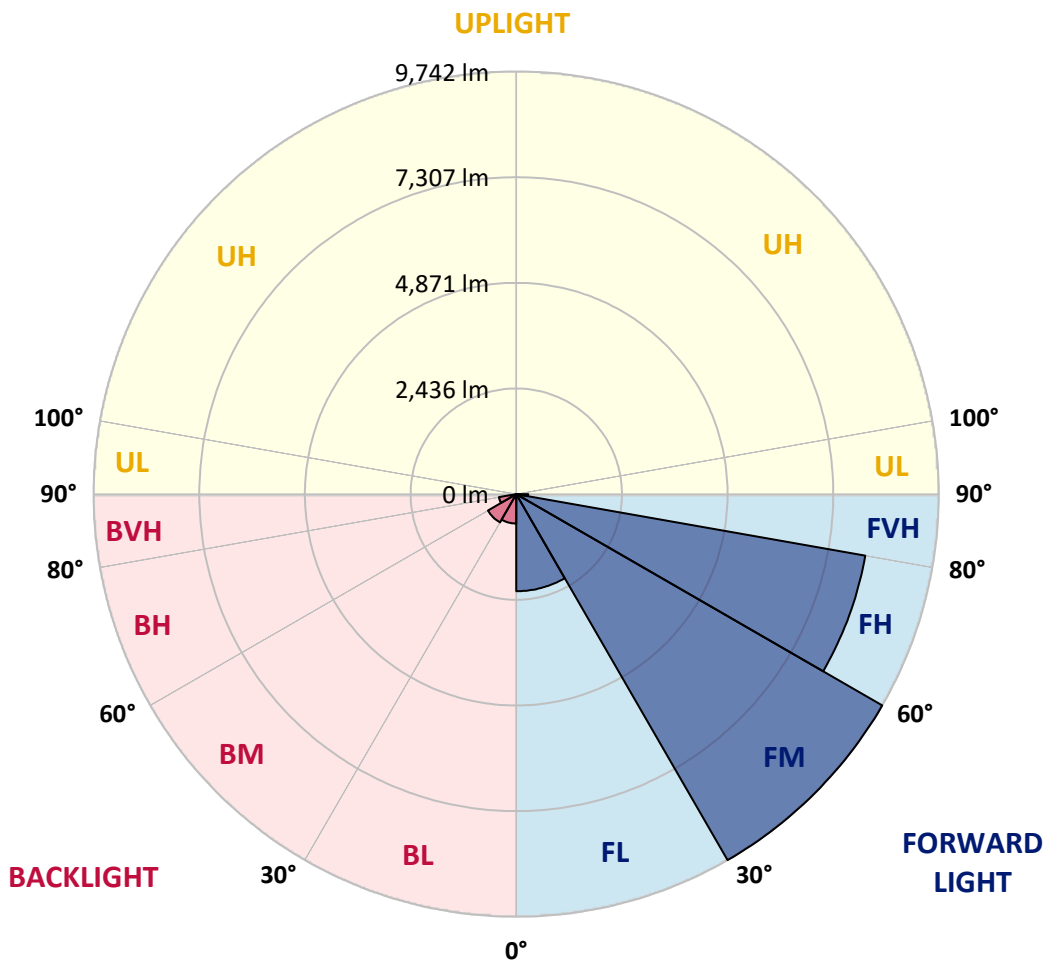
CATALOG NUMBER: IFLD-S-SA6A-735-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2238.0	10.1			
FM (30°-60°)	9742.4	43.8			
FH (60°-80°)	8169.8	36.7			G4/12000
FVH (80°-90°)	272.0	1.2			G3/500
BL (0°-30°)	677.7	3.0	B2/1000		
BM (30°-60°)	753.3	3.4	B1/1000		
BH (60°-80°)	404.6	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: P484372

CATALOG NUMBER: IFLD-S-SA6A-735-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6307.2	6307.2	6307.2	6307.2	6307.2	6307.2	6307.2	6307.2	6307.2	6307.2	6307.2
2.5°	6862.9	6886.5	6907.2	6868.8	6901.3	6854.0	6732.8	6706.2	6685.5	6505.2	6401.8
5°	6859.9	6833.3	6854.0	6871.7	6827.4	6862.9	6833.3	6836.3	6756.5	6593.9	6304.3
7.5°	6401.8	6390.0	6401.8	6487.5	6585.0	6661.9	6706.2	6750.6	6697.4	6455.0	6174.2
10°	5784.1	5843.2	5875.7	6029.4	6180.1	6322.0	6460.9	6543.7	6528.9	6431.4	6032.4
12.5°	5352.6	5334.8	5453.1	5553.5	5704.3	5991.0	6233.3	6310.2	6398.8	6262.9	5846.1
15°	4953.6	4906.3	4977.2	5151.6	5408.7	5636.3	5976.2	6091.5	6203.8	6239.2	5745.7
17.5°	4572.3	4595.9	4669.8	4826.5	5068.8	5388.0	5707.2	5872.8	6141.7	6094.4	5594.9
20°	4389.0	4439.3	4465.9	4545.7	4714.2	5033.4	5509.2	5642.2	5928.9	6091.5	5447.1
22.5°	4397.9	4397.9	4335.8	4383.1	4536.8	4785.1	5240.3	5388.0	5843.2	5937.8	5314.1
25°	4492.5	4433.4	4436.3	4380.2	4445.2	4581.2	4997.9	5178.2	5668.8	5952.6	5243.2
27.5°	4563.4	4551.6	4533.9	4519.1	4436.3	4457.0	4838.3	4986.1	5600.8	5934.8	5133.9
30°	4820.6	4767.4	4749.6	4717.1	4607.8	4507.3	4711.2	4897.4	5547.6	5976.2	5071.8
32.5°	5036.3	5045.2	5060.0	4965.4	4870.8	4622.5	4746.7	4894.5	5509.2	6070.8	5133.9
35°	5308.2	5346.7	5352.6	5323.0	5222.5	4977.2	4894.5	5021.5	5574.2	6239.2	5139.8
37.5°	5722.0	5680.6	5792.9	5804.8	5733.8	5408.7	5237.3	5287.5	5766.3	6508.2	5364.4
40°	5991.0	6041.2	6251.1	6381.1	6259.9	5964.4	5733.8	5725.0	6044.2	6930.9	5642.2
42.5°	6289.5	6401.8	6632.3	6913.1	6898.3	6623.5	6390.0	6351.6	6537.8	7542.7	6082.6
45°	6697.4	6797.8	7120.0	7542.7	7773.2	7539.7	7188.0	7111.1	7137.7	8376.1	6833.3
47.5°	7374.2	7347.6	7811.6	8228.4	8606.7	8426.4	8275.6	8051.0	8030.3	9357.4	7870.7
50°	8139.7	8133.8	8547.6	9020.4	9457.9	9809.6	9558.4	9313.1	9319.0	10690.4	9091.4
52.5°	8866.8	8982.0	9428.3	9898.3	10649.0	11027.3	11269.7	11172.1	10702.2	11881.5	10397.8
55°	9251.0	9351.5	9794.8	10604.6	11789.8	12762.2	13418.4	13335.6	12428.2	13223.3	11686.4
57.5°	8887.4	8955.4	9555.4	10616.5	12587.8	14757.2	15386.8	15283.3	14213.4	14248.9	13244.0
60°	7365.3	7471.7	8364.3	9608.6	12277.5	16294.1	18097.1	17940.4	15839.0	15546.4	14245.9
62.5°	5101.3	5172.3	5905.3	7454.0	10805.6	16829.1	20656.6	20742.3	17553.2	16557.2	14544.4
65°	3304.3	3298.4	3718.1	4767.4	7657.9	15209.4	22169.9	22701.9	19208.4	16710.9	14452.8
67°	2334.9	2326.0	2524.1	3233.4	5302.3	12531.7	22143.3	23287.1	20106.9	16755.2	13604.6
67.5°	2154.6	2145.8	2334.9	2973.3	4785.1	11653.9	21812.2	22985.6	20423.1	16693.2	13232.2
70°	1672.9	1649.2	1720.2	2048.2	2787.1	7536.7	18667.5	21114.7	19767.0	15144.4	10566.2
72.5°	1208.8	1235.4	1347.7	1681.7	2187.1	4055.1	14228.2	17074.4	16509.9	11414.5	6715.1
75°	842.3	866.0	1046.3	1371.4	2006.8	2459.0	9620.4	12383.9	11500.2	6301.3	2861.0
77.5°	440.4	469.9	668.0	1096.5	1823.6	1903.4	5748.6	7853.0	6094.4	2243.3	789.1
80°	203.9	218.7	334.0	777.3	1525.1	1672.9	3351.6	4368.4	2438.4	502.4	271.9
82.5°	88.7	97.5	153.7	446.3	1081.7	1463.0	2074.8	2290.6	883.7	162.6	168.5
85°	17.7	20.7	59.1	236.4	523.1	886.7	1457.1	1359.6	443.3	79.8	133.0
87.5°	0.0	0.0	14.8	68.0	141.9	263.0	617.7	617.7	136.0	41.4	50.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484372

CATALOG NUMBER: IFLD-S-SA6A-735-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6307.2	6307.2	6307.2	6307.2	6307.2	6307.2	6307.2	6307.2	6307.2	6307.2	6307.2
2.5°	6310.2	6203.8	5970.3	5754.5	5600.8	5426.5	5195.9	5092.5	5054.1	5000.9	4921.1
5°	6144.7	6014.6	5615.6	5213.7	4773.3	4439.3	4084.6	3877.7	3721.1	3623.5	3591.0
7.5°	5911.2	5645.2	5107.3	4462.9	3892.5	3396.0	2858.1	2494.5	2261.0	2166.4	2077.8
10°	5725.0	5379.2	4560.5	3759.5	2999.9	2272.8	1667.0	1347.7	1105.4	1013.8	1001.9
12.5°	5482.6	5068.8	4049.2	3041.3	2086.6	1353.7	922.1	801.0	733.0	721.2	712.3
15°	5281.6	4788.0	3564.4	2355.6	1350.7	845.3	718.2	688.7	670.9	665.0	668.0
17.5°	5145.7	4486.6	3067.9	1714.2	889.6	691.6	662.1	644.3	635.5	632.5	623.6
20°	4876.7	4232.4	2577.3	1200.0	694.6	638.4	614.8	600.0	591.1	588.2	585.2
22.5°	4723.0	3910.2	2086.6	836.4	617.7	579.3	561.6	549.7	535.0	526.1	523.1
25°	4569.3	3673.8	1649.2	650.2	561.6	535.0	508.4	493.6	469.9	458.1	455.2
27.5°	4389.0	3440.3	1270.9	564.5	505.4	478.8	452.2	428.6	399.0	387.2	381.3
30°	4285.6	3212.7	957.6	505.4	464.0	428.6	396.0	366.5	334.0	313.3	307.4
32.5°	4232.4	3005.8	718.2	461.1	419.7	381.3	339.9	304.4	274.9	257.1	254.2
35°	4167.4	2804.9	564.5	419.7	378.3	336.9	295.6	260.1	230.5	215.8	209.8
37.5°	4235.4	2686.6	469.9	387.2	345.8	298.5	254.2	218.7	195.1	180.3	177.3
40°	4421.6	2589.1	407.9	357.6	313.3	263.0	221.7	186.2	165.5	153.7	147.8
42.5°	4708.2	2589.1	369.4	328.1	283.7	230.5	189.2	162.6	141.9	130.0	127.1
45°	5228.4	2668.9	336.9	298.5	248.3	198.0	162.6	136.0	115.3	103.4	100.5
47.5°	5958.5	2852.1	310.3	271.9	221.7	174.4	141.9	115.3	94.6	82.8	79.8
50°	6939.7	3268.9	283.7	239.4	198.0	150.7	118.2	91.6	73.9	62.1	59.1
52.5°	8163.3	3860.0	257.1	221.7	168.5	127.1	94.6	73.9	56.2	47.3	44.3
55°	9457.9	4584.1	224.6	198.0	144.8	106.4	76.8	56.2	41.4	35.5	32.5
57.5°	10761.3	5142.7	198.0	171.4	118.2	85.7	62.1	44.3	29.6	23.6	20.7
60°	11452.9	5195.9	171.4	141.9	94.6	68.0	47.3	32.5	20.7	14.8	11.8
62.5°	11559.3	4723.0	147.8	115.3	76.8	53.2	32.5	23.6	11.8	5.9	5.9
65°	11012.5	3936.8	127.1	91.6	59.1	38.4	23.6	14.8	5.9	3.0	0.0
67°	10125.8	3298.4	109.4	76.8	47.3	29.6	17.7	8.9	3.0	0.0	0.0
67.5°	9783.0	3121.1	103.4	70.9	44.3	26.6	14.8	8.9	3.0	0.0	0.0
70°	7592.9	2228.5	76.8	50.2	32.5	20.7	11.8	5.9	0.0	0.0	0.0
72.5°	4652.1	1303.4	59.1	35.5	23.6	14.8	8.9	3.0	0.0	0.0	0.0
75°	1950.7	449.2	50.2	26.6	17.7	8.9	5.9	3.0	0.0	0.0	0.0
77.5°	508.4	168.5	35.5	17.7	11.8	8.9	5.9	3.0	0.0	0.0	0.0
80°	206.9	76.8	23.6	11.8	11.8	8.9	5.9	3.0	0.0	0.0	0.0
82.5°	136.0	35.5	14.8	11.8	8.9	5.9	3.0	0.0	0.0	0.0	0.0
85°	103.4	20.7	8.9	8.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	44.3	11.8	8.9	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)