

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: P483982

Luminaire Tested: **IFLD-S-SA6A-735-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483982
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-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

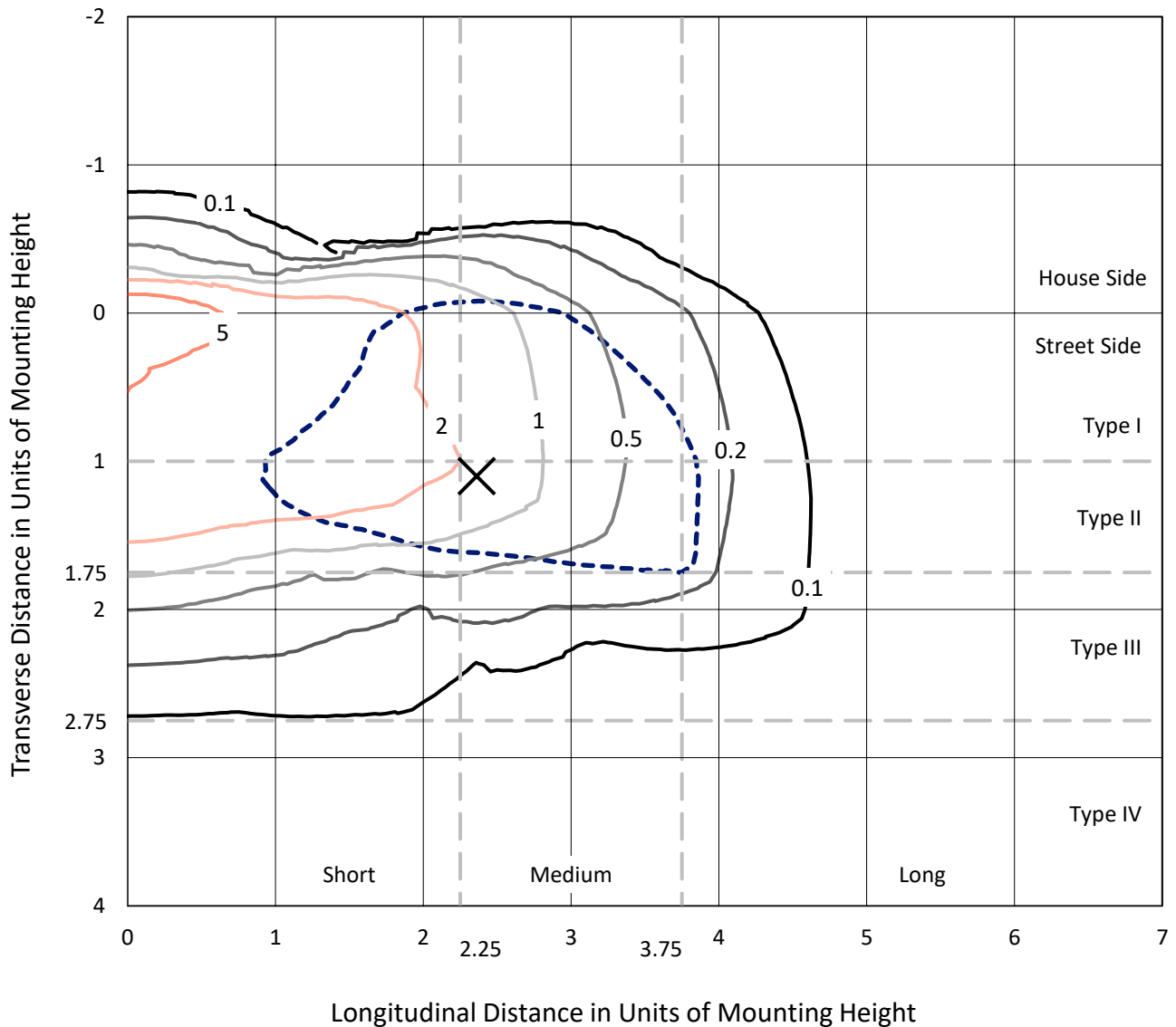
Lumens per Lamp: N/A
Luminaire Lumens: 21909.8 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

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

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Iso-Footcandle Lines of Horizontal Illumination

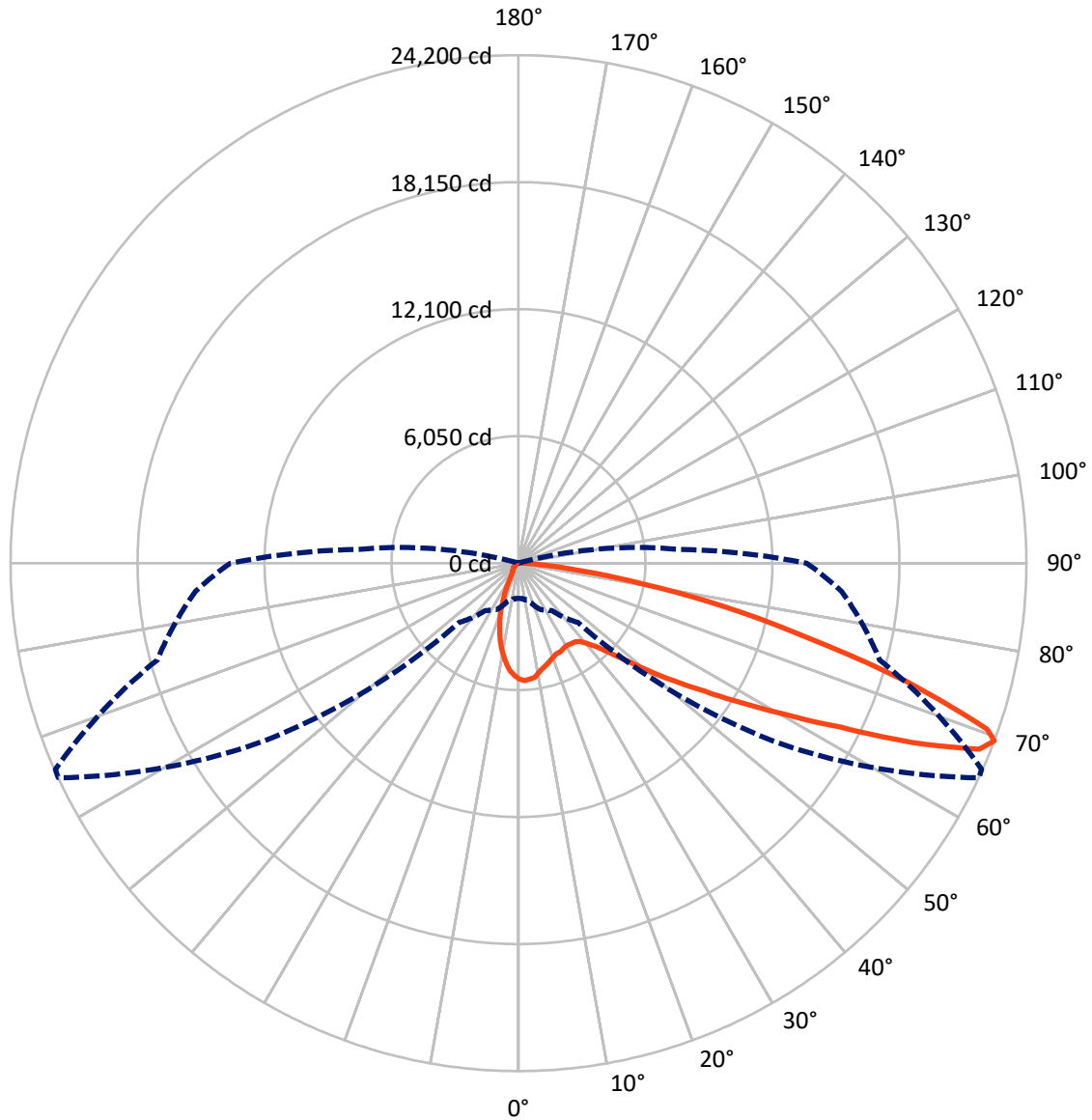
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	2657.8	0.0	2657.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	19252.0	0.0	19252.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	21909.8	0.0	21909.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.0	2.1
10°-20°	989.1	4.5
20°-30°	1377.0	6.3
30°-40°	1951.3	8.9
40°-50°	3075.2	14.0
50°-60°	4990.0	22.8
60°-70°	5572.9	25.4
70°-80°	3138.2	14.3
80°-90°	364.1	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°	21909.8	100.0
0°-180°	21909.8	100.0



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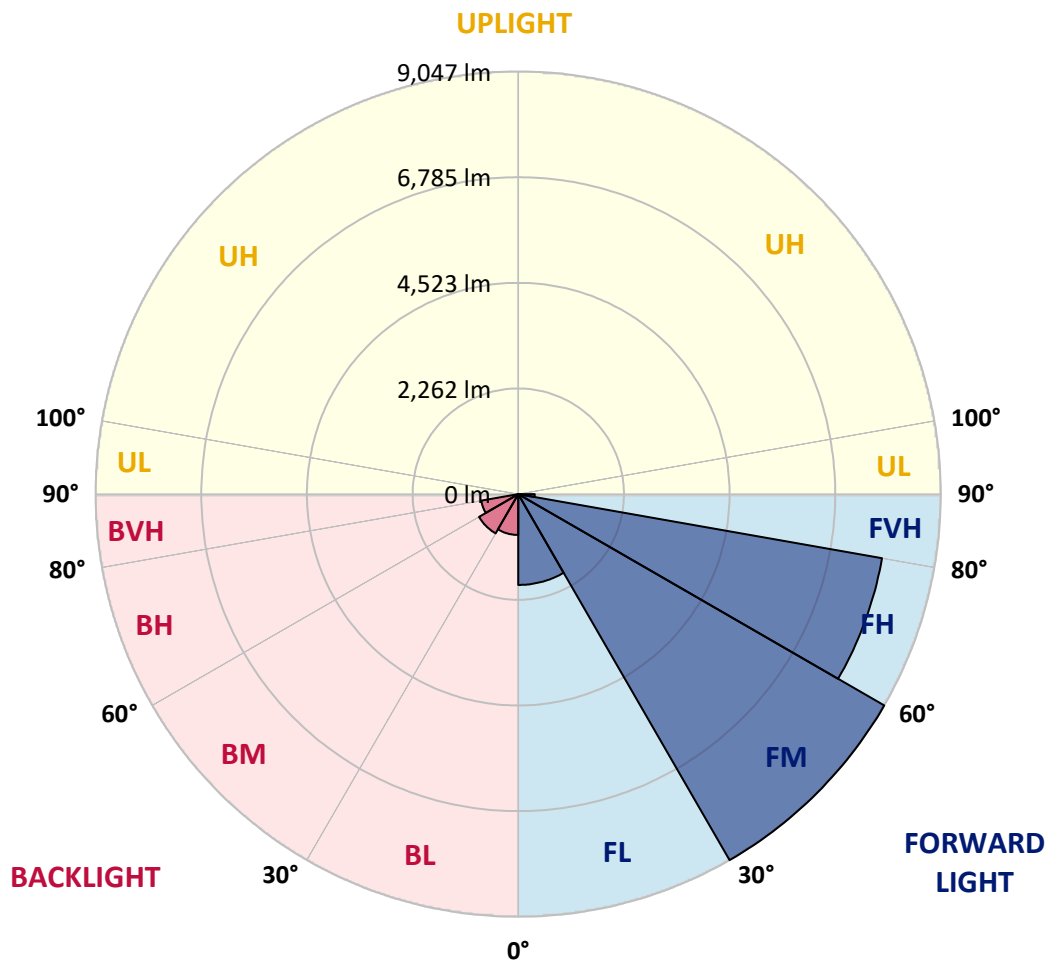
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1944.3	8.9			
FM (30°-60°)	9046.8	41.3			
FH (60°-80°)	7906.9	36.1			G4/12000
FVH (80°-90°)	354.1	1.6			G3/500
BL (0°-30°)	873.8	4.0	B2/1000		
BM (30°-60°)	969.8	4.4	B1/1000		
BH (60°-80°)	804.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	10.0	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0
2.5°	5320.0	5361.4	5373.2	5414.6	5435.3	5524.0	5574.2	5603.8	5589.0	5621.5	5624.5
5°	4941.7	4918.1	4980.1	5024.5	5119.1	5272.7	5429.4	5550.6	5606.7	5659.9	5651.1
7.5°	4536.8	4525.0	4587.1	4687.5	4773.3	4959.5	5210.7	5509.2	5497.4	5627.4	5665.8
10°	4259.0	4270.8	4291.5	4392.0	4519.1	4708.2	5021.5	5299.3	5361.4	5636.3	5713.1
12.5°	4004.8	4025.5	4063.9	4167.4	4315.1	4510.2	4814.6	5139.7	5234.3	5586.0	5739.7
15°	3922.0	3874.8	3951.6	4028.4	4182.1	4356.5	4613.7	5018.6	5059.9	5526.9	5784.1
17.5°	3854.1	3824.5	3860.0	3922.0	4084.6	4226.5	4468.8	4888.5	4965.4	5503.3	5778.1
20°	3874.8	3848.2	3862.9	3910.2	3984.1	4117.1	4341.7	4764.4	4847.1	5393.9	5769.3
22.5°	3933.9	3954.6	3928.0	3939.8	3963.4	4031.4	4273.8	4675.7	4746.7	5373.2	5819.5
25°	4199.9	4164.4	4128.9	4114.2	3975.2	4004.8	4253.1	4669.8	4720.1	5299.3	5778.1
27.5°	4477.7	4448.1	4433.4	4347.7	4158.5	4069.8	4256.0	4587.1	4655.0	5269.8	5727.9
30°	4814.6	4853.1	4793.9	4690.5	4427.5	4208.7	4288.5	4545.7	4640.3	5157.5	5695.4
32.5°	5169.3	5190.0	5219.5	5142.7	4802.8	4418.6	4386.1	4584.1	4590.0	5157.5	5621.5
35°	5571.3	5541.7	5618.5	5624.5	5325.9	4791.0	4572.3	4610.7	4672.8	5133.8	5594.9
37.5°	5917.1	5967.3	6056.0	6197.8	5890.5	5317.1	4861.9	4734.8	4761.4	5243.2	5615.6
40°	6295.4	6345.6	6546.6	6688.5	6514.1	5908.2	5302.3	5024.5	5045.2	5405.7	5722.0
42.5°	6712.1	6809.6	7049.0	7297.3	7250.0	6658.9	5869.8	5450.1	5441.2	5810.7	5940.7
45°	7276.6	7406.7	7666.8	7953.5	7994.8	7519.0	6626.4	6085.5	6115.1	6339.7	6392.9
47.5°	8062.8	8056.9	8311.1	8630.3	8869.7	8411.6	7530.8	6939.7	6936.7	7176.1	7063.8
50°	8822.4	8825.3	8893.3	9262.8	9883.4	9650.0	8651.0	8074.6	8042.1	8160.3	7980.1
52.5°	9174.1	9132.7	9082.5	9528.8	10663.7	11210.5	10069.6	9360.3	9333.7	9262.8	9215.5
55°	8804.7	8819.4	8816.5	9280.5	11074.5	12856.8	11890.3	10776.0	10731.7	10510.0	10575.0
57.5°	7619.5	7572.2	7675.6	8399.7	10604.6	13979.9	14494.1	12561.2	12445.9	11710.0	11562.2
60°	5671.7	5686.5	5772.2	6626.4	9437.2	14216.3	16985.7	14656.7	14160.2	12555.3	12351.3
62.5°	3960.5	3930.9	3963.4	4442.2	6747.6	13270.5	18670.4	17204.4	16725.6	13515.8	13397.6
65°	2834.4	2796.0	2926.0	3218.6	4052.1	10146.5	18909.8	20597.4	20168.8	15049.8	14766.1
67.5°	2039.3	2033.4	2184.2	2716.2	2878.7	5843.2	17136.4	23671.2	23411.1	16870.4	15599.5
69°	1687.6	1690.6	1835.4	2432.4	2748.7	3990.0	14745.4	24200.2	24153.0	17810.3	15442.9
70°	1471.9	1483.7	1652.2	2264.0	2695.5	3280.7	12711.9	23680.1	23632.8	17993.5	14925.7
72.5°	907.4	916.2	1137.9	1814.7	2562.5	2677.8	7601.7	19373.8	19536.4	17154.2	12859.7
75°	434.5	437.4	597.0	1312.3	2470.9	2538.8	4072.8	14296.1	14639.0	13849.8	10049.0
77.5°	230.5	230.5	286.7	697.5	2000.9	2388.1	2417.7	10084.4	10368.2	8757.4	5713.1
80°	115.3	118.2	174.4	363.5	1241.3	2340.8	1888.6	6014.6	6168.3	3573.3	1779.3
82.5°	44.3	47.3	82.8	218.7	644.3	1977.3	1658.1	2958.5	2920.1	836.4	434.5
85°	5.9	5.9	29.6	130.0	274.9	871.9	1368.4	1235.4	1194.1	183.2	209.8
87.5°	0.0	0.0	5.9	38.4	82.8	254.2	529.0	339.9	378.3	50.2	103.4
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°	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0	5524.0
2.5°	5609.7	5547.6	5453.0	5361.4	5263.9	5145.7	5015.6	4968.3	4885.6	4879.7	4926.9
5°	5603.8	5503.3	5337.8	5142.7	4864.9	4655.0	4427.5	4261.9	4134.8	4052.1	4072.8
7.5°	5633.3	5512.1	5225.5	4805.8	4448.1	4031.4	3679.7	3437.3	3215.7	3106.3	3094.5
10°	5586.0	5423.5	5003.8	4415.6	3889.5	3307.3	2793.0	2467.9	2136.9	2015.7	2021.6
12.5°	5612.6	5385.1	4764.4	4013.7	3289.6	2532.9	1918.2	1474.8	1164.5	1064.0	1052.2
15°	5630.4	5302.3	4533.9	3531.9	2624.6	1726.1	1111.3	836.4	738.9	721.2	718.2
17.5°	5562.4	5201.8	4208.7	3056.1	1944.8	1049.2	738.9	682.7	665.0	653.2	647.3
20°	5559.4	5142.7	3928.0	2568.4	1297.5	715.2	638.4	617.7	591.1	582.2	582.2
22.5°	5509.2	5018.6	3591.0	2033.4	827.6	614.8	573.4	540.9	511.3	499.5	496.5
25°	5494.4	4873.7	3274.8	1528.0	629.5	549.7	508.4	461.1	425.6	407.9	399.0
27.5°	5453.0	4749.6	2955.6	1075.8	549.7	490.6	437.4	387.2	345.8	319.2	316.2
30°	5305.3	4619.6	2600.9	744.8	499.5	434.5	375.4	316.2	274.9	257.1	251.2
32.5°	5243.2	4498.4	2213.7	573.4	455.2	384.2	316.2	263.0	230.5	212.8	209.8
35°	5169.3	4321.1	1838.4	499.5	413.8	334.0	266.0	221.7	195.1	180.3	180.3
37.5°	5178.2	4179.2	1486.7	452.2	369.4	286.7	227.6	189.2	165.5	150.7	150.7
40°	5151.6	4066.9	1155.6	410.8	328.1	245.3	192.1	159.6	138.9	124.1	121.2
42.5°	5272.7	4037.3	871.9	375.4	286.7	209.8	165.5	136.0	115.3	97.5	97.5
45°	5476.7	4084.6	679.8	342.8	245.3	180.3	141.9	112.3	91.6	79.8	76.8
47.5°	6020.5	4270.8	532.0	316.2	209.8	156.6	118.2	91.6	73.9	62.1	59.1
50°	6809.6	4687.5	452.2	277.8	177.3	133.0	97.5	70.9	59.1	47.3	44.3
52.5°	7932.8	5388.0	410.8	245.3	147.8	109.4	76.8	56.2	44.3	35.5	32.5
55°	9156.4	6262.9	372.4	206.9	124.1	88.7	62.1	44.3	32.5	23.6	20.7
57.5°	10111.0	7019.5	339.9	171.4	100.5	70.9	47.3	32.5	23.6	14.8	11.8
60°	11154.3	7551.5	298.5	136.0	82.8	53.2	35.5	23.6	17.7	8.9	8.9
62.5°	12230.2	8175.1	245.3	106.4	65.0	41.4	26.6	17.7	11.8	3.0	3.0
65°	13725.7	8662.8	189.2	82.8	50.2	29.6	20.7	14.8	5.9	0.0	0.0
67.5°	14148.3	8423.4	138.9	65.0	35.5	20.7	14.8	8.9	3.0	0.0	0.0
69°	13725.7	7587.0	121.2	56.2	29.6	17.7	11.8	5.9	3.0	0.0	0.0
70°	12954.3	6936.7	106.4	47.3	26.6	17.7	8.9	5.9	3.0	0.0	0.0
72.5°	10835.1	5320.0	82.8	35.5	20.7	14.8	8.9	5.9	0.0	0.0	0.0
75°	7947.5	3286.6	62.1	26.6	17.7	11.8	8.9	5.9	0.0	0.0	0.0
77.5°	4259.0	1200.0	44.3	17.7	11.8	8.9	8.9	5.9	0.0	0.0	0.0
80°	1167.5	354.7	32.5	11.8	8.9	5.9	5.9	3.0	0.0	0.0	0.0
82.5°	319.2	91.6	20.7	11.8	8.9	5.9	3.0	0.0	0.0	0.0	0.0
85°	171.4	35.5	11.8	8.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	88.7	11.8	8.9	5.9	5.9	3.0	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)