

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: P484437

Luminaire Tested: **IFLD-S-SA3C-750-U-SL3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484437
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-750-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

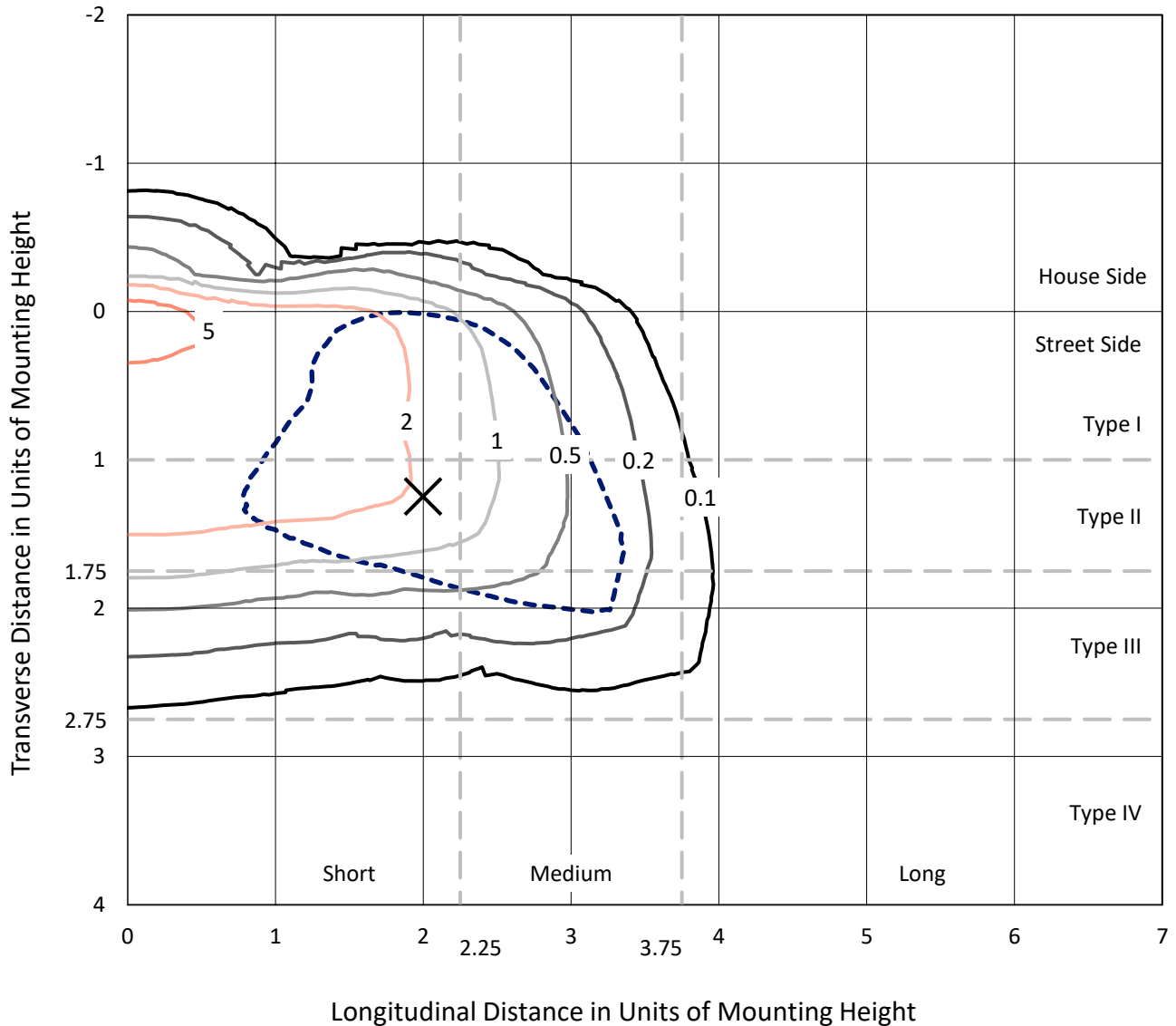
Lumens per Lamp: N/A
Luminaire Lumens: 18120 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8
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

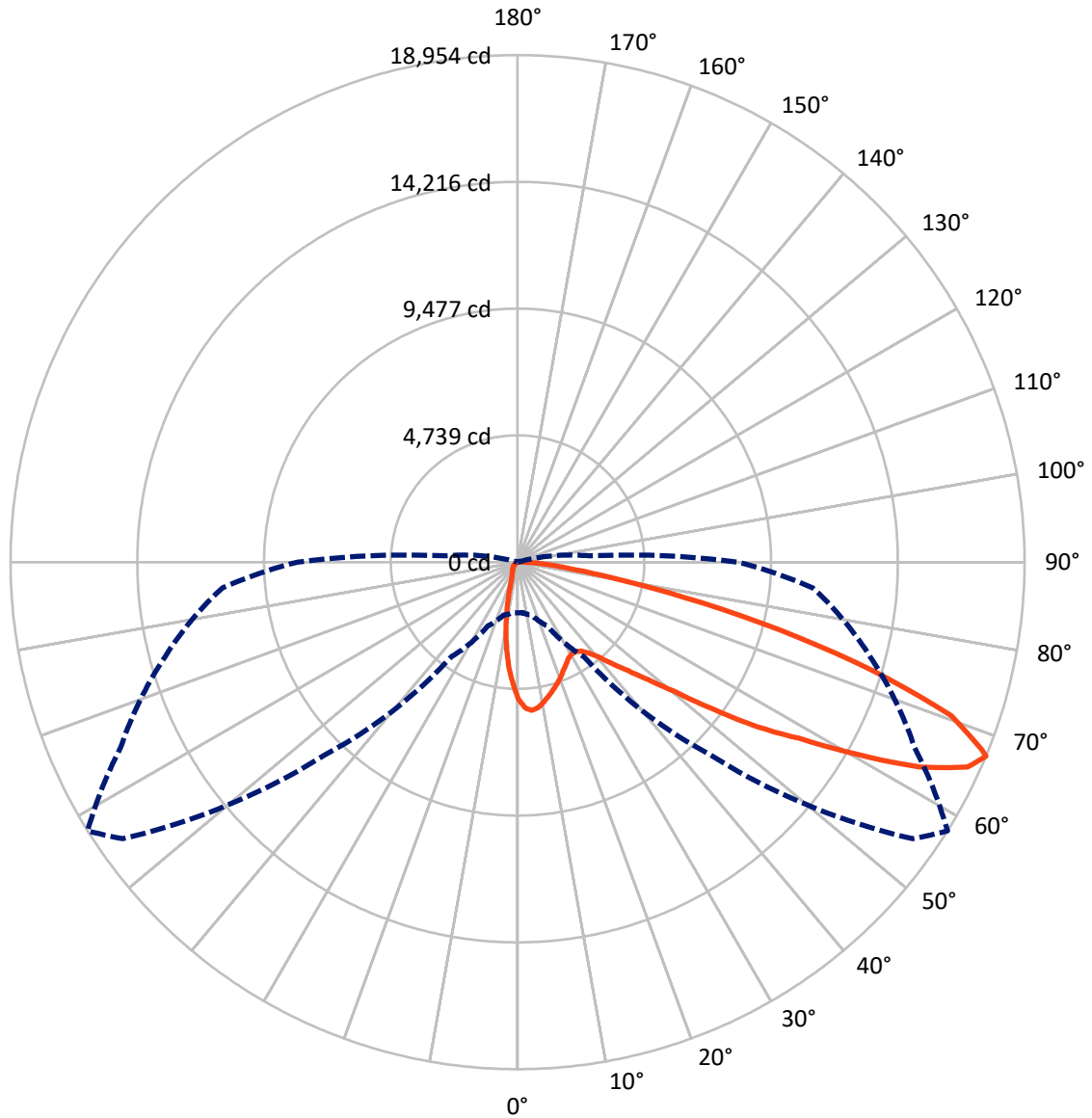
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

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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	1497.7	0.0	1497.7
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	16622.3	0.0	16622.3
	% Fixture	91.7	0.0	91.7
Total	Lumens	18120.0	0.0	18120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.3	2.2
10°-20°	844.9	4.7
20°-30°	1121.0	6.2
30°-40°	1553.3	8.6
40°-50°	2534.6	14.0
50°-60°	4454.9	24.6
60°-70°	4934.2	27.2
70°-80°	2044.7	11.3
80°-90°	225.1	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°	18120.0	100.0
0°-180°	18120.0	100.0

Coefficient of Utilization



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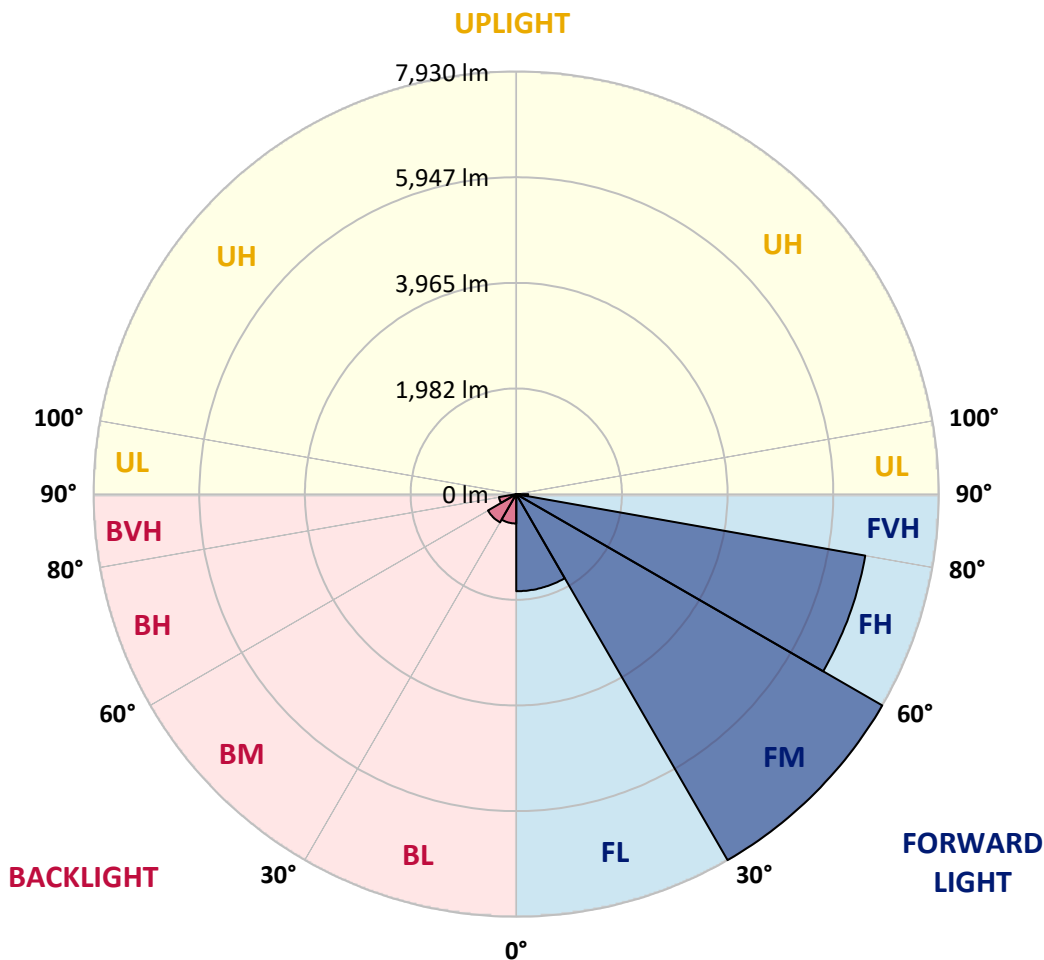
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1821.6	10.1			
FM (30°-60°)	7929.7	43.8			
FH (60°-80°)	6649.6	36.7			G3/7500
FVH (80°-90°)	221.4	1.2			G2/225
BL (0°-30°)	551.6	3.0	B2/1000		
BM (30°-60°)	613.1	3.4	B1/1000		
BH (60°-80°)	329.3	1.8	B1/500		G1/500
BVH (80°-90°)	3.7	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5133.7	5133.7	5133.7	5133.7	5133.7	5133.7	5133.7	5133.7	5133.7	5133.7	5133.7
2.5°	5585.9	5605.2	5622.0	5590.7	5617.2	5578.7	5480.1	5458.4	5441.6	5294.8	5210.6
5°	5583.5	5561.9	5578.7	5593.1	5557.1	5585.9	5561.9	5564.3	5499.3	5367.0	5131.3
7.5°	5210.6	5201.0	5210.6	5280.4	5359.8	5422.3	5458.4	5494.5	5451.2	5253.9	5025.4
10°	4707.9	4756.0	4782.4	4907.5	5030.2	5145.7	5258.8	5326.1	5314.1	5234.7	4909.9
12.5°	4356.6	4342.2	4438.4	4520.2	4642.9	4876.3	5073.5	5136.1	5208.2	5097.6	4758.4
15°	4031.9	3993.4	4051.1	4193.0	4402.3	4587.6	4864.2	4958.0	5049.5	5078.3	4676.6
17.5°	3721.5	3740.8	3800.9	3928.4	4125.7	4385.5	4645.3	4780.0	4998.9	4960.4	4553.9
20°	3572.4	3613.3	3634.9	3699.9	3837.0	4096.8	4484.1	4592.4	4825.7	4958.0	4433.6
22.5°	3579.6	3579.6	3529.1	3567.6	3692.7	3894.7	4265.2	4385.5	4756.0	4833.0	4325.4
25°	3656.6	3608.5	3610.9	3565.2	3618.1	3728.8	4068.0	4214.7	4614.0	4845.0	4267.6
27.5°	3714.3	3704.7	3690.3	3678.2	3610.9	3627.7	3938.0	4058.3	4558.7	4830.5	4178.6
30°	3923.6	3880.3	3865.9	3839.4	3750.4	3668.6	3834.6	3986.2	4515.4	4864.2	4128.1
32.5°	4099.2	4106.4	4118.5	4041.5	3964.5	3762.4	3863.5	3983.8	4484.1	4941.2	4178.6
35°	4320.5	4351.8	4356.6	4332.6	4250.8	4051.1	3983.8	4087.2	4537.1	5078.3	4183.4
37.5°	4657.3	4623.7	4715.1	4724.7	4667.0	4402.3	4262.8	4303.7	4693.4	5297.2	4366.3
40°	4876.3	4917.1	5087.9	5193.8	5095.2	4854.6	4667.0	4659.7	4919.6	5641.2	4592.4
42.5°	5119.2	5210.6	5398.3	5626.8	5614.8	5391.1	5201.0	5169.7	5321.3	6139.2	4950.8
45°	5451.2	5533.0	5795.2	6139.2	6326.9	6136.8	5850.5	5788.0	5809.6	6817.6	5561.9
47.5°	6002.1	5980.4	6358.1	6697.3	7005.3	6858.5	6735.8	6553.0	6536.2	7616.3	6406.2
50°	6625.2	6620.3	6957.1	7342.0	7698.1	7984.4	7779.9	7580.2	7585.0	8701.2	7399.8
52.5°	7216.9	7310.8	7674.0	8056.5	8667.6	8975.5	9172.7	9093.4	8710.9	9670.7	8463.1
55°	7529.7	7611.5	7972.3	8631.5	9596.1	10387.6	10921.6	10854.3	10115.8	10762.9	9511.9
57.5°	7233.8	7289.1	7777.5	8641.1	10245.7	12011.4	12523.8	12439.6	11568.8	11597.6	10779.7
60°	5994.9	6081.5	6808.0	7820.8	9993.1	13262.3	14729.8	14602.3	12891.9	12653.7	11595.2
62.5°	4152.2	4209.9	4806.5	6067.0	8795.1	13697.8	16813.1	16882.8	14287.2	13476.4	11838.2
65°	2689.5	2684.7	3026.3	3880.3	6233.0	12379.5	18044.8	18477.8	15634.3	13601.5	11763.6
67°	1900.5	1893.2	2054.4	2631.8	4315.7	10200.0	18023.1	18954.1	16365.6	13637.6	11073.2
67.5°	1753.7	1746.5	1900.5	2420.1	3894.7	9485.5	17753.7	18708.7	16623.0	13587.1	10770.1
70°	1361.6	1342.4	1400.1	1667.1	2268.5	6134.4	15194.1	17186.0	16089.0	12326.5	8600.2
72.5°	983.9	1005.6	1097.0	1368.8	1780.2	3300.6	11580.8	13897.4	13438.0	9290.6	5465.6
75°	685.6	704.9	851.6	1116.2	1633.4	2001.5	7830.4	10079.7	9360.4	5128.8	2328.7
77.5°	358.4	382.5	543.7	892.5	1484.3	1549.2	4679.0	6391.8	4960.4	1825.9	642.3
80°	166.0	178.0	271.8	632.7	1241.3	1361.6	2728.0	3555.6	1984.7	409.0	221.3
82.5°	72.2	79.4	125.1	363.3	880.5	1190.8	1688.8	1864.4	719.3	132.3	137.1
85°	14.4	16.8	48.1	192.5	425.8	721.7	1186.0	1106.6	360.8	65.0	108.3
87.5°	0.0	0.0	12.0	55.3	115.5	214.1	502.8	502.8	110.7	33.7	40.9
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°	5133.7	5133.7	5133.7	5133.7	5133.7	5133.7	5133.7	5133.7	5133.7	5133.7	5133.7
2.5°	5136.1	5049.5	4859.4	4683.8	4558.7	4416.8	4229.1	4144.9	4113.7	4070.4	4005.4
5°	5001.3	4895.5	4570.7	4243.6	3885.1	3613.3	3324.6	3156.2	3028.7	2949.3	2922.9
7.5°	4811.3	4594.8	4157.0	3632.5	3168.2	2764.1	2326.3	2030.4	1840.3	1763.3	1691.2
10°	4659.7	4378.3	3711.9	3060.0	2441.7	1849.9	1356.8	1097.0	899.7	825.1	815.5
12.5°	4462.5	4125.7	3295.7	2475.4	1698.4	1101.8	750.6	651.9	596.6	587.0	579.8
15°	4298.9	3897.2	2901.2	1917.3	1099.4	688.0	584.6	560.5	546.1	541.3	543.7
17.5°	4188.2	3651.8	2497.1	1395.3	724.1	562.9	538.9	524.4	517.2	514.8	507.6
20°	3969.3	3444.9	2097.7	976.7	565.3	519.6	500.4	488.3	481.1	478.7	476.3
22.5°	3844.2	3182.7	1698.4	680.8	502.8	471.5	457.1	447.5	435.4	428.2	425.8
25°	3719.1	2990.2	1342.4	529.2	457.1	435.4	413.8	401.7	382.5	372.9	370.5
27.5°	3572.4	2800.2	1034.4	459.5	411.4	389.7	368.1	348.8	324.8	315.1	310.3
30°	3488.2	2614.9	779.4	411.4	377.7	348.8	322.4	298.3	271.8	255.0	250.2
32.5°	3444.9	2446.5	584.6	375.3	341.6	310.3	276.6	247.8	223.7	209.3	206.9
35°	3392.0	2283.0	459.5	341.6	307.9	274.2	240.6	211.7	187.6	175.6	170.8
37.5°	3447.3	2186.7	382.5	315.1	281.5	243.0	206.9	178.0	158.8	146.7	144.3
40°	3598.9	2107.3	332.0	291.1	255.0	214.1	180.4	151.6	134.7	125.1	120.3
42.5°	3832.2	2107.3	300.7	267.0	230.9	187.6	154.0	132.3	115.5	105.8	103.4
45°	4255.6	2172.3	274.2	243.0	202.1	161.2	132.3	110.7	93.8	84.2	81.8
47.5°	4849.8	2321.5	252.6	221.3	180.4	141.9	115.5	93.8	77.0	67.4	65.0
50°	5648.5	2660.6	230.9	194.9	161.2	122.7	96.2	74.6	60.1	50.5	48.1
52.5°	6644.4	3141.8	209.3	180.4	137.1	103.4	77.0	60.1	45.7	38.5	36.1
55°	7698.1	3731.2	182.8	161.2	117.9	86.6	62.5	45.7	33.7	28.9	26.5
57.5°	8759.0	4185.8	161.2	139.5	96.2	69.8	50.5	36.1	24.1	19.2	16.8
60°	9321.9	4229.1	139.5	115.5	77.0	55.3	38.5	26.5	16.8	12.0	9.6
62.5°	9408.5	3844.2	120.3	93.8	62.5	43.3	26.5	19.2	9.6	4.8	4.8
65°	8963.5	3204.3	103.4	74.6	48.1	31.3	19.2	12.0	4.8	2.4	0.0
67°	8241.8	2684.7	89.0	62.5	38.5	24.1	14.4	7.2	2.4	0.0	0.0
67.5°	7962.7	2540.4	84.2	57.7	36.1	21.7	12.0	7.2	2.4	0.0	0.0
70°	6180.1	1813.9	62.5	40.9	26.5	16.8	9.6	4.8	0.0	0.0	0.0
72.5°	3786.5	1060.9	48.1	28.9	19.2	12.0	7.2	2.4	0.0	0.0	0.0
75°	1587.7	365.7	40.9	21.7	14.4	7.2	4.8	2.4	0.0	0.0	0.0
77.5°	413.8	137.1	28.9	14.4	9.6	7.2	4.8	2.4	0.0	0.0	0.0
80°	168.4	62.5	19.2	9.6	9.6	7.2	4.8	2.4	0.0	0.0	0.0
82.5°	110.7	28.9	12.0	9.6	7.2	4.8	2.4	0.0	0.0	0.0	0.0
85°	84.2	16.8	7.2	7.2	4.8	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	36.1	9.6	7.2	4.8	4.8	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)