

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: P484582

Luminaire Tested: **IFLD-L-SA8A-830-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484582
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-830-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3
distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

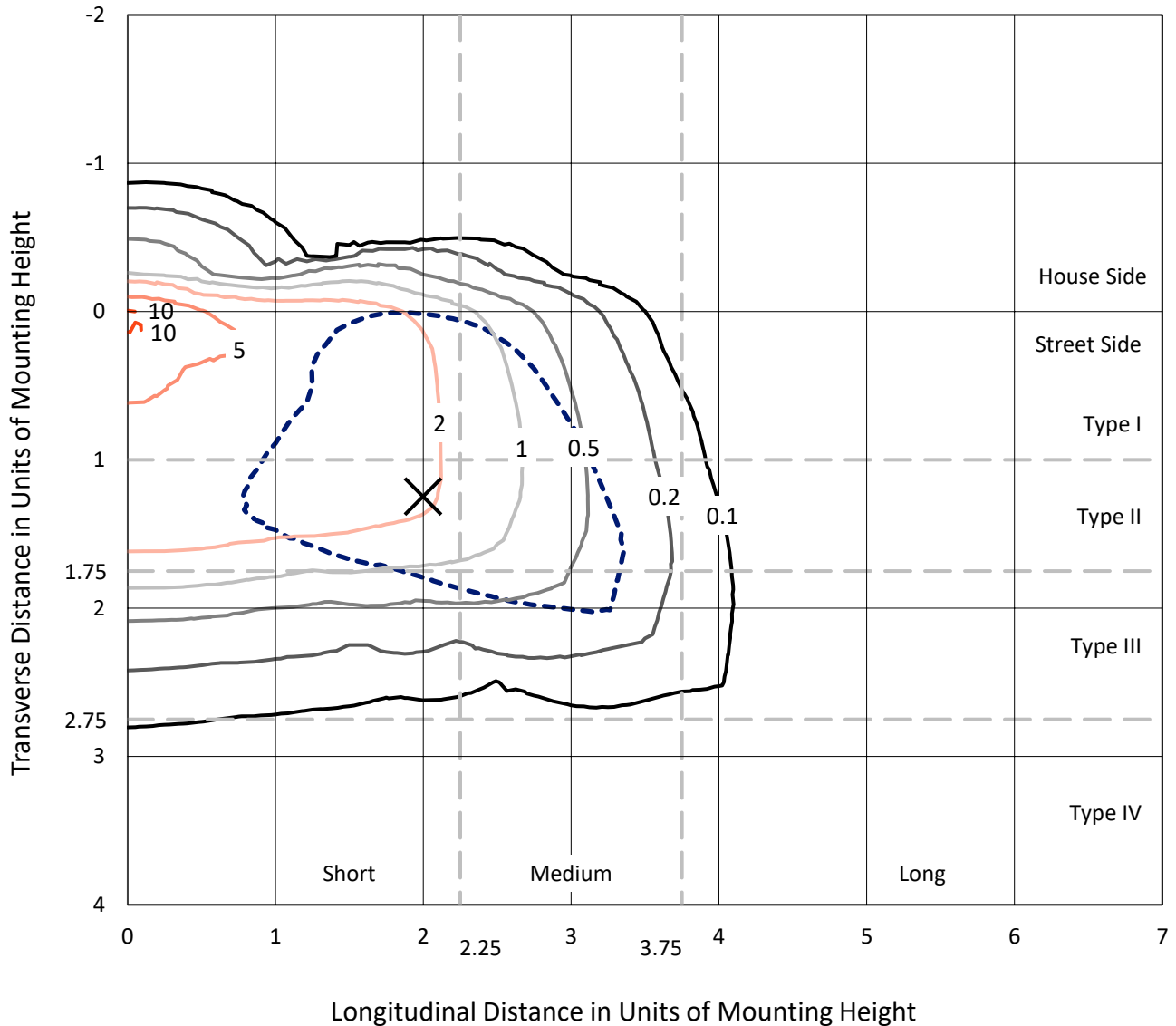
Lumens per Lamp: N/A
Luminaire Lumens: 22764 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

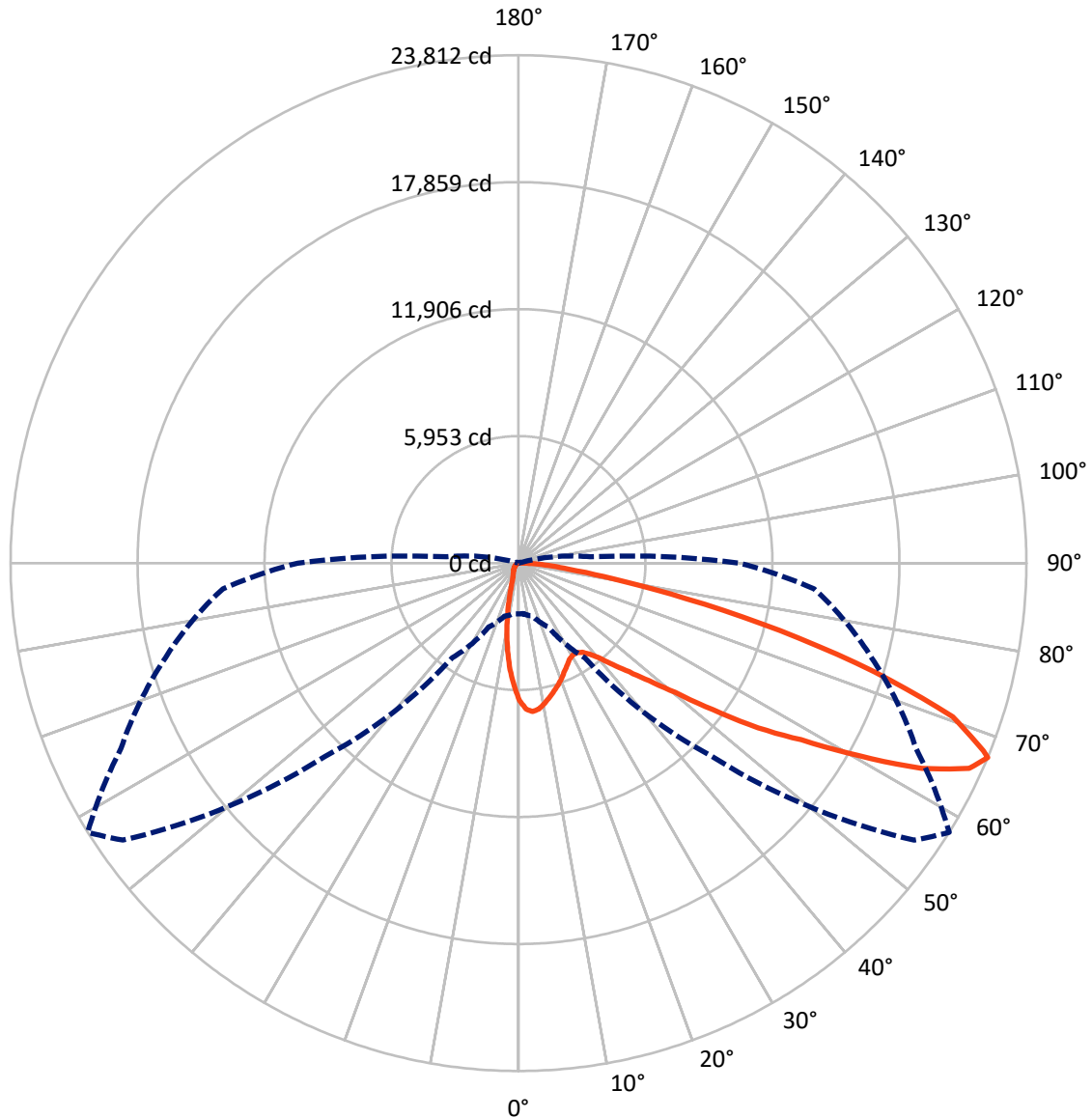
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	1881.6	0.0	1881.6
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	20882.4	0.0	20882.4
	% Fixture	91.7	0.0	91.7
Total	Lumens	22764.0	0.0	22764.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.7	2.2
10°-20°	1061.4	4.7
20°-30°	1408.3	6.2
30°-40°	1951.4	8.6
40°-50°	3184.1	14.0
50°-60°	5596.7	24.6
60°-70°	6198.8	27.2
70°-80°	2568.8	11.3
80°-90°	282.8	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°	22764.0	100.0
0°-180°	22764.0	100.0



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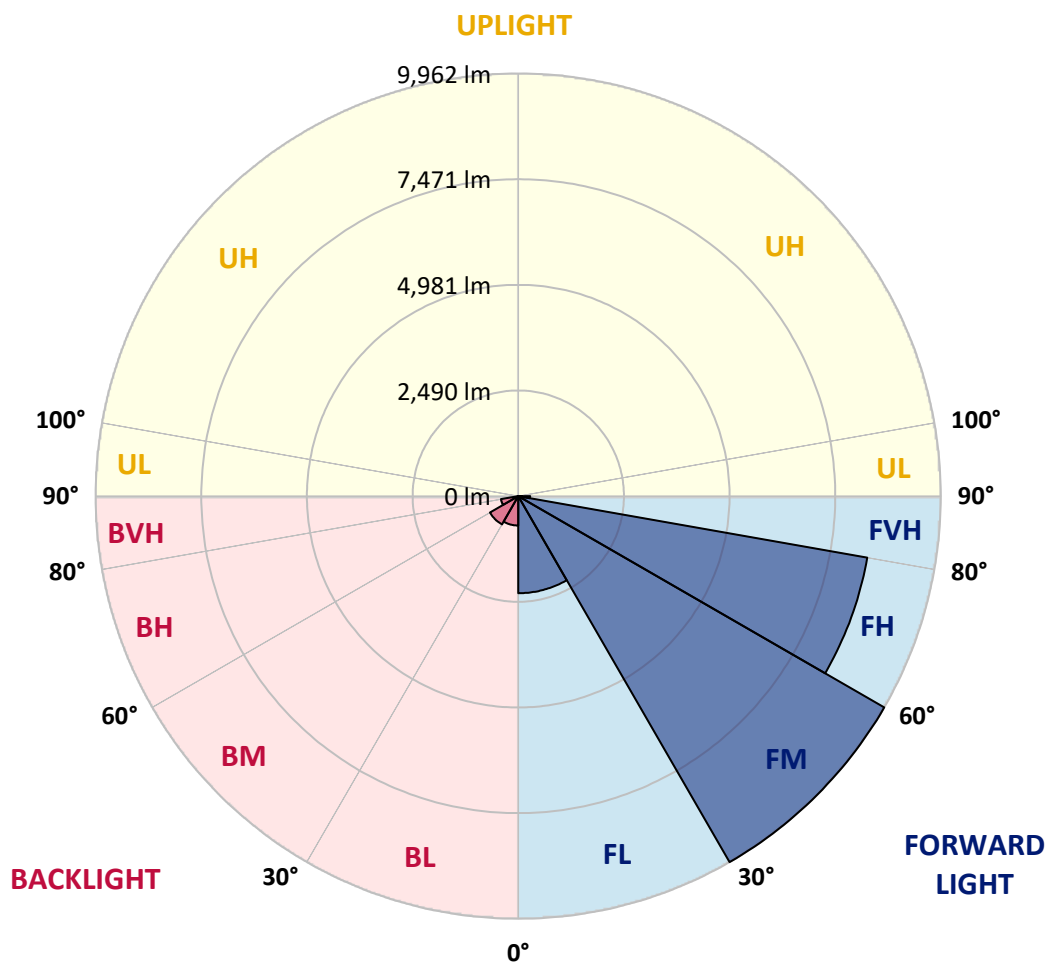
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2288.4	10.1			
FM	(30°-60°)	9962.0	43.8			
FH	(60°-80°)	8353.9	36.7			G4/12000
FVH	(80°-90°)	278.1	1.2			G3/500
BL	(0°-30°)	693.0	3.0	B2/1000		
BM	(30°-60°)	770.3	3.4	B1/1000		
BH	(60°-80°)	413.7	1.8	B1/500		G1/500
BVH	(80°-90°)	4.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6449.3	6449.3	6449.3	6449.3	6449.3	6449.3	6449.3	6449.3	6449.3	6449.3	6449.3
2.5°	7017.5	7041.7	7062.8	7023.6	7056.8	7008.4	6884.5	6857.3	6836.2	6651.8	6546.1
5°	7014.5	6987.3	7008.4	7026.6	6981.2	7017.5	6987.3	6990.3	6908.7	6742.5	6446.3
7.5°	6546.1	6534.0	6546.1	6633.7	6733.4	6812.0	6857.3	6902.7	6848.3	6600.5	6313.3
10°	5914.4	5974.9	6008.1	6165.3	6319.4	6464.5	6606.5	6691.1	6676.0	6576.3	6168.3
12.5°	5473.2	5455.0	5575.9	5678.7	5832.8	6126.0	6373.8	6452.4	6543.0	6404.0	5977.9
15°	5065.2	5016.8	5089.4	5267.7	5530.6	5763.3	6110.9	6228.7	6343.6	6379.8	5875.1
17.5°	4675.3	4699.5	4775.1	4935.2	5183.0	5509.4	5835.8	6005.1	6280.1	6231.7	5721.0
20°	4487.9	4539.3	4566.5	4648.1	4820.4	5146.8	5633.4	5769.3	6062.5	6228.7	5569.9
22.5°	4497.0	4497.0	4433.5	4481.9	4639.1	4892.9	5358.3	5509.4	5974.9	6071.6	5433.9
25°	4593.7	4533.3	4536.3	4478.9	4545.4	4684.4	5110.5	5294.9	5796.5	6086.7	5361.4
27.5°	4666.3	4654.2	4636.0	4620.9	4536.3	4557.5	4947.3	5098.4	5727.0	6068.5	5249.5
30°	4929.2	4874.8	4856.6	4823.4	4711.6	4608.8	4817.4	5007.8	5672.6	6110.9	5186.1
32.5°	5149.8	5158.9	5174.0	5077.3	4980.6	4726.7	4853.6	5004.7	5633.4	6207.6	5249.5
35°	5427.8	5467.1	5473.2	5443.0	5340.2	5089.4	5004.7	5134.7	5699.8	6379.8	5255.6
37.5°	5850.9	5808.6	5923.5	5935.6	5863.0	5530.6	5355.3	5406.7	5896.3	6654.8	5485.3
40°	6126.0	6177.3	6391.9	6524.9	6401.0	6098.8	5863.0	5854.0	6180.4	7087.0	5769.3
42.5°	6431.2	6546.1	6781.8	7068.9	7053.8	6772.7	6534.0	6494.7	6685.1	7712.6	6219.7
45°	6848.3	6951.0	7280.4	7712.6	7948.3	7709.6	7350.0	7271.4	7298.6	8564.9	6987.3
47.5°	7540.3	7513.1	7987.6	8413.8	8800.6	8616.2	8462.1	8232.4	8211.3	9568.2	8048.1
50°	8323.1	8317.1	8740.2	9223.7	9671.0	10030.6	9773.7	9522.9	9528.9	10931.2	9296.2
52.5°	9066.6	9184.4	9640.8	10121.3	10888.9	11275.8	11523.6	11423.9	10943.3	12149.2	10632.0
55°	9459.4	9562.2	10015.5	10843.6	12055.5	13049.8	13720.7	13636.1	12708.3	13521.3	11949.7
57.5°	9087.7	9157.2	9770.7	10855.7	12871.5	15089.8	15733.5	15627.7	14533.7	14569.9	13542.4
60°	7531.3	7640.1	8552.8	9825.1	12554.2	16661.3	18504.8	18344.7	16195.9	15896.7	14566.9
62.5°	5216.3	5288.8	6038.3	7621.9	11049.1	17208.3	21122.0	21209.7	17948.8	16930.3	14872.2
65°	3378.8	3372.8	3801.9	4874.8	7830.5	15552.2	22669.4	23213.4	19641.2	17087.4	14778.5
67°	2387.5	2378.5	2580.9	3306.3	5421.8	12814.1	22642.2	23811.8	20559.9	17132.8	13911.1
67.5°	2203.2	2194.1	2387.5	3040.3	4892.9	11916.5	22303.7	23503.5	20883.3	17069.3	13530.3
70°	1710.6	1686.4	1758.9	2094.4	2849.9	7706.6	19088.1	21590.5	20212.4	15485.7	10804.3
72.5°	1236.1	1263.3	1378.1	1719.6	2236.4	4146.4	14548.8	17459.2	16881.9	11671.7	6866.4
75°	861.3	885.5	1069.9	1402.3	2052.1	2514.5	9837.2	12663.0	11759.3	6443.3	2925.5
77.5°	450.3	480.5	683.0	1121.2	1864.7	1946.3	5878.1	8029.9	6231.7	2293.8	806.9
80°	208.5	223.6	341.5	794.8	1559.4	1710.6	3427.2	4466.8	2493.3	513.8	278.0
82.5°	90.7	99.7	157.2	456.3	1106.1	1496.0	2121.6	2342.2	903.6	166.2	172.3
85°	18.1	21.2	60.4	241.8	534.9	906.7	1489.9	1390.2	453.3	81.6	136.0
87.5°	0.0	0.0	15.1	69.5	145.1	269.0	631.6	631.6	139.0	42.3	51.4
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°	6449.3	6449.3	6449.3	6449.3	6449.3	6449.3	6449.3	6449.3	6449.3	6449.3	6449.3
2.5°	6452.4	6343.6	6104.8	5884.2	5727.0	5548.7	5313.0	5207.2	5167.9	5113.5	5031.9
5°	6283.1	6150.1	5742.1	5331.1	4880.8	4539.3	4176.7	3965.1	3804.9	3705.2	3672.0
7.5°	6044.4	5772.4	5222.3	4563.5	3980.2	3472.5	2922.5	2550.7	2312.0	2215.3	2124.6
10°	5854.0	5500.4	4663.2	3844.2	3067.5	2324.1	1704.5	1378.1	1130.3	1036.6	1024.5
12.5°	5606.2	5183.0	4140.4	3109.8	2133.7	1384.2	942.9	819.0	749.5	737.4	728.3
15°	5400.6	4895.9	3644.8	2408.7	1381.1	864.3	734.4	704.2	686.0	680.0	683.0
17.5°	5261.6	4587.7	3137.0	1752.9	909.7	707.2	677.0	658.8	649.8	646.7	637.7
20°	4986.6	4327.8	2635.3	1227.0	710.2	652.8	628.6	613.5	604.4	601.4	598.4
22.5°	4829.5	3998.3	2133.7	855.3	631.6	592.3	574.2	562.1	547.0	537.9	534.9
25°	4672.3	3756.6	1686.4	664.9	574.2	547.0	519.8	504.7	480.5	468.4	465.4
27.5°	4487.9	3517.8	1299.5	577.2	516.8	489.6	462.4	438.2	408.0	395.9	389.9
30°	4382.2	3285.1	979.2	516.8	474.5	438.2	405.0	374.8	341.5	320.4	314.3
32.5°	4327.8	3073.6	734.4	471.5	429.2	389.9	347.6	311.3	281.1	262.9	259.9
35°	4261.3	2868.1	577.2	429.2	386.8	344.5	302.2	266.0	235.7	220.6	214.6
37.5°	4330.8	2747.2	480.5	395.9	353.6	305.2	259.9	223.6	199.5	184.4	181.3
40°	4521.2	2647.4	417.1	365.7	320.4	269.0	226.7	190.4	169.2	157.2	151.1
42.5°	4814.3	2647.4	377.8	335.5	290.1	235.7	193.4	166.2	145.1	133.0	130.0
45°	5346.2	2729.0	344.5	305.2	253.9	202.5	166.2	139.0	117.9	105.8	102.8
47.5°	6092.7	2916.4	317.3	278.0	226.7	178.3	145.1	117.9	96.7	84.6	81.6
50°	7096.1	3342.5	290.1	244.8	202.5	154.1	120.9	93.7	75.6	63.5	60.4
52.5°	8347.3	3947.0	262.9	226.7	172.3	130.0	96.7	75.6	57.4	48.4	45.3
55°	9671.0	4687.4	229.7	202.5	148.1	108.8	78.6	57.4	42.3	36.3	33.2
57.5°	11003.8	5258.6	202.5	175.3	120.9	87.6	63.5	45.3	30.2	24.2	21.2
60°	11711.0	5313.0	175.3	145.1	96.7	69.5	48.4	33.2	21.2	15.1	12.1
62.5°	11819.8	4829.5	151.1	117.9	78.6	54.4	33.2	24.2	12.1	6.0	6.0
65°	11260.7	4025.5	130.0	93.7	60.4	39.3	24.2	15.1	6.0	3.0	0.0
67°	10354.0	3372.8	111.8	78.6	48.4	30.2	18.1	9.1	3.0	0.0	0.0
67.5°	10003.4	3191.4	105.8	72.5	45.3	27.2	15.1	9.1	3.0	0.0	0.0
70°	7764.0	2278.7	78.6	51.4	33.2	21.2	12.1	6.0	0.0	0.0	0.0
72.5°	4756.9	1332.8	60.4	36.3	24.2	15.1	9.1	3.0	0.0	0.0	0.0
75°	1994.6	459.4	51.4	27.2	18.1	9.1	6.0	3.0	0.0	0.0	0.0
77.5°	519.8	172.3	36.3	18.1	12.1	9.1	6.0	3.0	0.0	0.0	0.0
80°	211.6	78.6	24.2	12.1	12.1	9.1	6.0	3.0	0.0	0.0	0.0
82.5°	139.0	36.3	15.1	12.1	9.1	6.0	3.0	0.0	0.0	0.0	0.0
85°	105.8	21.2	9.1	9.1	6.0	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	45.3	12.1	9.1	6.0	6.0	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)