

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: P482440

Luminaire Tested: **IFLD-L-SA8D-735-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482440
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-735-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

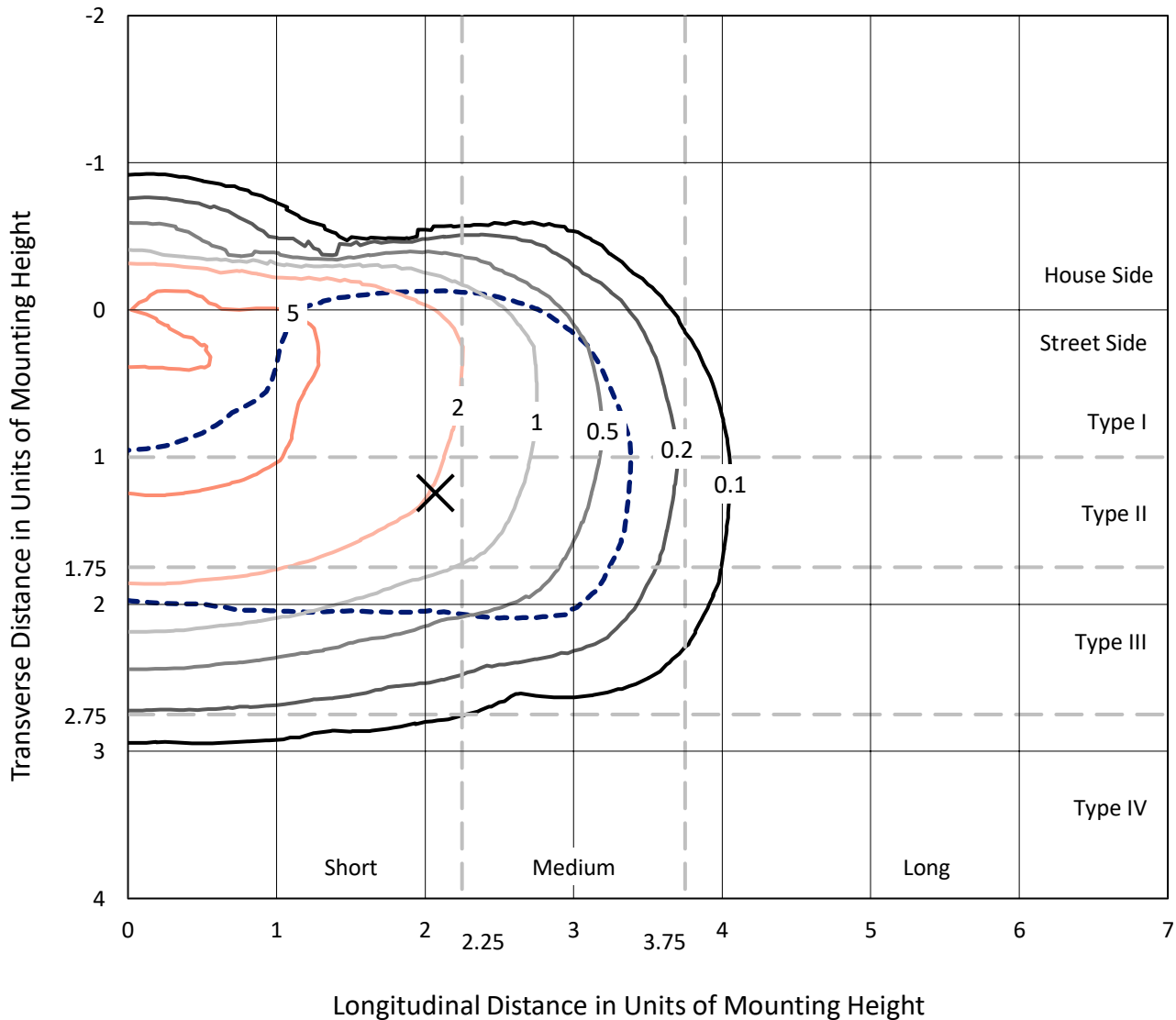
Lumens per Lamp: N/A
Luminaire Lumens: 40799.4 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (A_{in}): 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

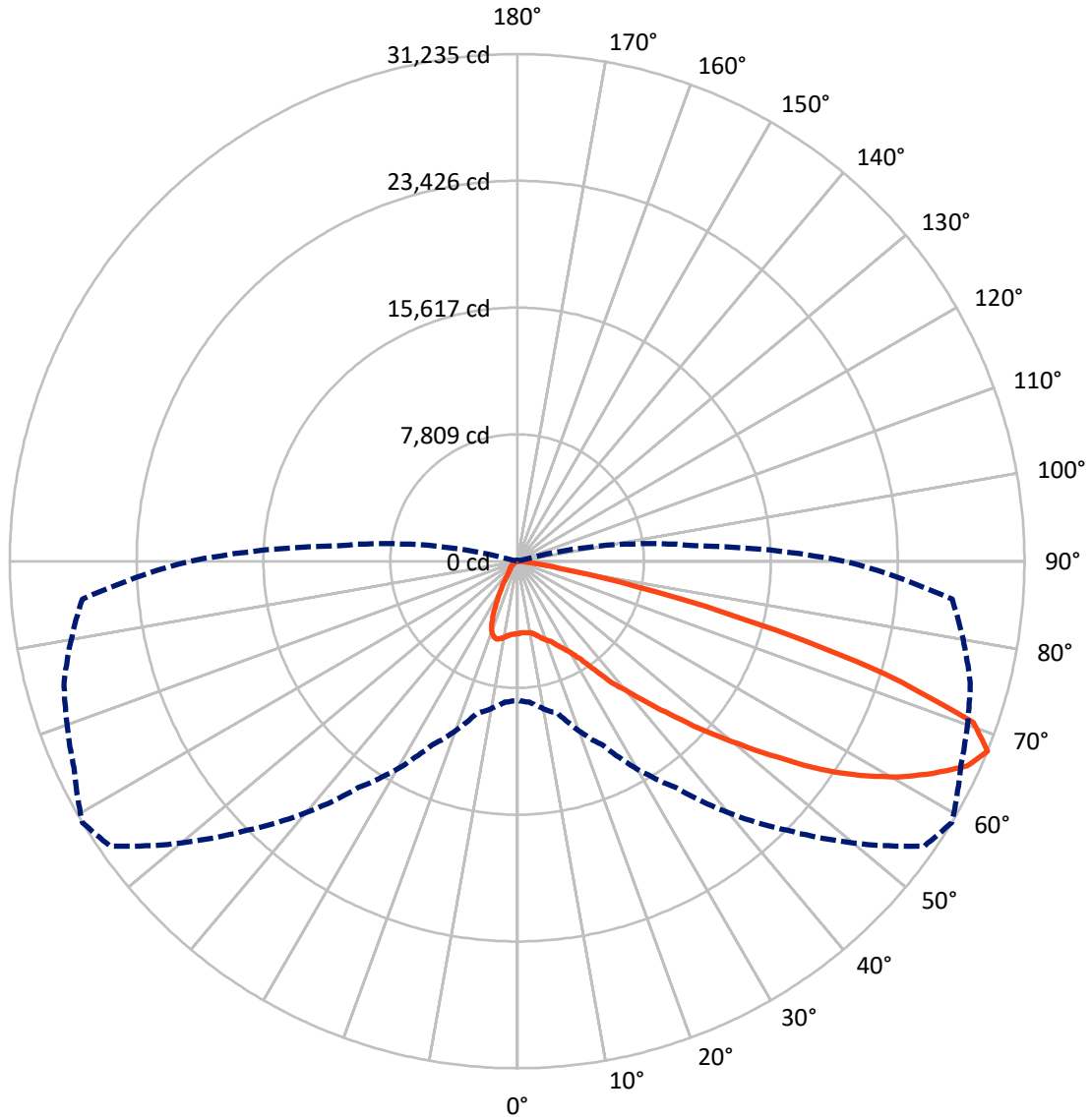
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4792.6	0.0	4792.6
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	36006.8	0.0	36006.8
	% Fixture	88.3	0.0	88.3
Total	Lumens	40799.4	0.0	40799.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.1	1.0
10°-20°	1227.9	3.0
20°-30°	2146.0	5.3
30°-40°	3778.3	9.3
40°-50°	6678.8	16.4
50°-60°	10575.0	25.9
60°-70°	11730.5	28.8
70°-80°	4070.2	10.0
80°-90°	167.6	0.4
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°	40799.4	100.0
0°-180°	40799.4	100.0

Coefficient of Utilization

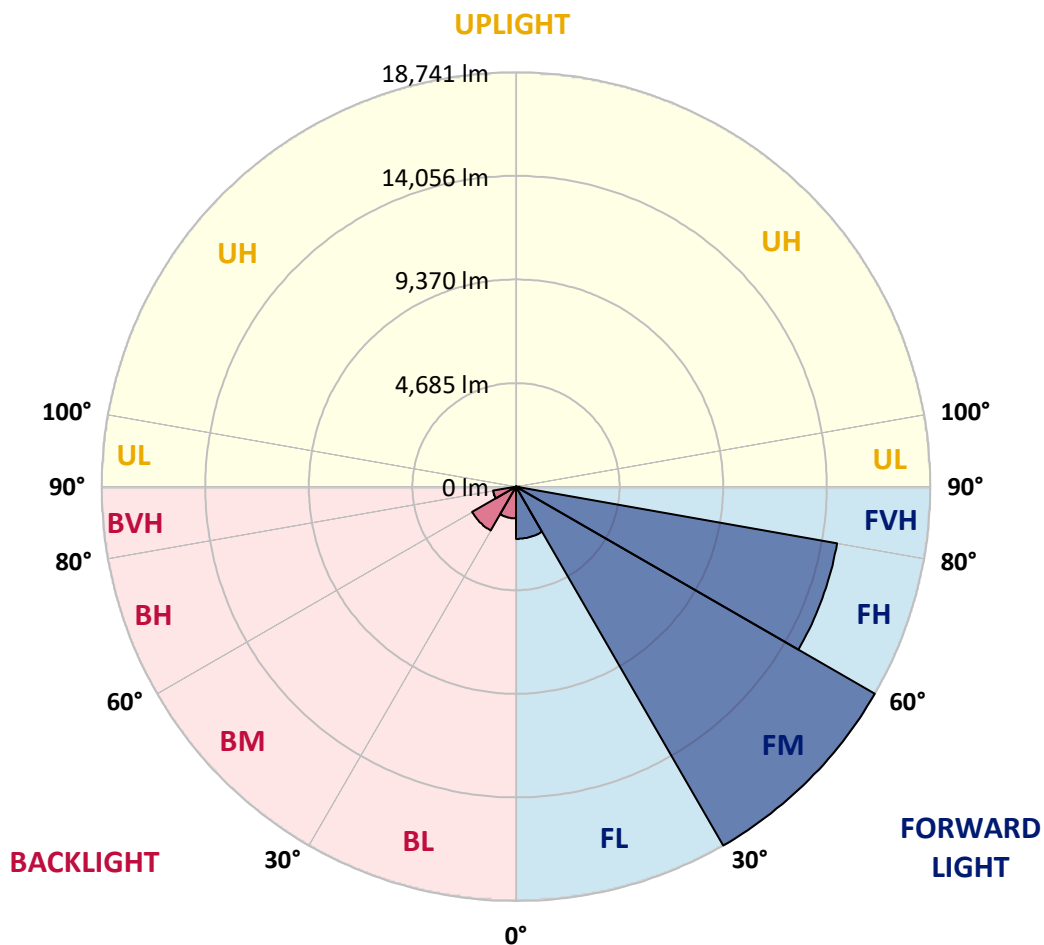


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2362.6	5.8			
FM (30°-60°)	18740.7	45.9			
FH (60°-80°)	14746.8	36.1			G5
FVH (80°-90°)	156.8	0.4			G2/225
BL (0°-30°)	1436.4	3.5	B3/2500		
BM (30°-60°)	2291.4	5.6	B2/2500		
BH (60°-80°)	1054.0	2.6	B3/2500		G3/2500
BVH (80°-90°)	10.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0
2.5°	4345.3	4283.3	4339.7	4345.3	4351.0	4401.7	4458.1	4418.6	4413.0	4458.1	4497.5
5°	4170.6	4142.4	4210.1	4243.9	4300.2	4345.3	4435.5	4441.1	4446.8	4497.5	4565.1
7.5°	4097.4	4029.7	4108.6	4148.1	4187.5	4294.6	4401.7	4458.1	4537.0	4599.0	4666.6
10°	3950.8	4001.5	4024.1	4091.7	4204.4	4328.4	4458.1	4486.2	4660.9	4711.7	4875.1
12.5°	4001.5	4035.4	4080.4	4097.4	4221.3	4407.3	4582.0	4593.3	4773.7	4993.5	5078.0
15°	4131.2	4108.6	4125.5	4148.1	4294.6	4446.8	4728.6	4779.3	4948.4	5196.4	5404.9
17.5°	4407.3	4367.9	4339.7	4334.1	4367.9	4508.8	4841.3	4993.5	5151.3	5489.4	5596.5
20°	5100.6	5066.7	4954.0	4660.9	4559.5	4615.9	4976.6	5190.7	5410.5	5788.1	5962.9
22.5°	6154.5	6188.3	5923.4	5512.0	5089.3	4869.5	5190.7	5376.7	5726.1	6205.2	6363.0
25°	7400.0	7332.4	7011.1	6532.1	5867.0	5348.5	5534.5	5743.1	6171.4	6565.9	6627.9
27.5°	8375.1	8296.1	8048.2	7467.7	6892.8	6053.0	5985.4	6115.0	6622.3	6977.3	6909.7
30°	9338.8	9367.0	9197.9	8510.3	7800.2	6915.3	6487.0	6543.4	6932.2	7388.8	7236.6
32.5°	10567.4	10499.8	10404.0	9801.0	8961.2	8014.3	7281.7	7191.5	7360.6	7963.6	7783.3
35°	11711.5	11672.1	11542.5	10933.8	10201.1	9169.7	8454.0	8251.1	8211.6	8882.3	8566.7
37.5°	12709.1	12641.5	12444.2	12055.3	11345.2	10477.3	9693.9	9513.5	9507.9	9970.0	9361.3
40°	13548.9	13599.6	13577.1	13148.7	12759.8	12066.6	10866.2	10578.7	10556.2	10804.2	10449.1
42.5°	14636.6	14755.0	14693.0	14608.4	14140.6	13870.1	12511.9	12072.2	11875.0	12382.2	12061.0
45°	16282.3	16327.4	16366.9	16158.3	15690.5	15746.9	14213.9	13689.8	13639.0	14394.3	13672.9
47.5°	17820.9	17702.6	17978.7	17990.0	17967.5	17708.2	16051.2	15662.4	15730.0	16304.9	15560.9
50°	18204.2	18508.5	19269.4	19410.3	19776.6	20013.3	18091.5	17702.6	17815.3	18469.1	17618.0
52.5°	18502.9	18965.0	19725.9	20757.3	21743.6	22307.2	20374.0	20058.4	20052.8	20452.9	19280.7
55°	19027.0	19308.8	19968.2	21388.5	23265.3	24189.6	23124.4	22617.1	22160.6	22442.4	21005.3
57.5°	18976.3	19083.4	20109.1	21861.9	24471.4	26150.9	25384.4	24899.7	24313.6	24150.1	22989.1
60°	18085.8	18339.4	19489.2	21540.7	25215.3	27678.3	27492.3	26996.3	25987.5	25604.2	24510.8
62.5°	16321.8	16659.9	17561.7	20413.5	24133.2	27757.2	28946.3	28760.4	27633.2	26945.6	26494.7
65°	13227.6	13385.4	14422.4	17550.4	21687.2	26545.4	30665.3	30434.2	29397.2	28371.5	27514.8
67.5°	8566.7	8718.8	9716.4	12528.8	17031.9	23417.5	30597.7	31234.5	30113.0	28878.7	26877.9
70°	4046.6	4007.2	4937.1	6960.4	10911.2	17882.9	28529.3	29786.1	28833.6	26179.1	22324.1
72.5°	1234.3	1341.4	2051.5	3082.9	5602.2	11153.6	22363.5	23541.4	23242.7	20915.1	14901.5
75°	546.7	591.8	805.9	1262.5	2271.3	4576.4	13813.8	14862.1	14732.4	12337.1	6802.6
77.5°	349.4	383.2	507.2	721.4	1031.4	1454.1	6363.0	7383.1	7157.7	4334.1	1781.0
80°	248.0	264.9	360.7	496.0	648.1	597.4	2192.4	2603.8	2496.7	1177.9	479.1
82.5°	135.3	146.5	264.9	366.3	434.0	304.3	614.3	766.5	800.3	524.1	231.1
85°	50.7	62.0	163.4	259.3	225.4	140.9	180.4	219.8	287.4	287.4	107.1
87.5°	0.0	5.6	67.6	112.7	56.4	39.5	50.7	62.0	78.9	135.3	39.5
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°	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0	4475.0
2.5°	4525.7	4486.2	4503.1	4531.3	4469.3	4503.1	4435.5	4486.2	4503.1	4435.5	4469.3
5°	4582.0	4621.5	4599.0	4553.9	4514.4	4525.7	4508.8	4469.3	4503.1	4514.4	4491.9
7.5°	4745.5	4700.4	4711.7	4660.9	4582.0	4576.4	4469.3	4441.1	4452.4	4463.7	4424.2
10°	4897.7	4925.8	4869.5	4830.0	4700.4	4615.9	4469.3	4311.5	4294.6	4227.0	4283.3
12.5°	5168.2	5100.6	5078.0	4948.4	4818.8	4537.0	4221.3	3979.0	3776.1	3702.8	3629.6
15°	5393.6	5382.4	5342.9	5145.6	4846.9	4334.1	3736.6	3173.1	2784.2	2541.8	2508.0
17.5°	5703.6	5652.9	5579.6	5269.6	4638.4	3804.3	2784.2	2074.0	1685.2	1533.0	1476.6
20°	5940.3	5900.9	5799.4	5241.5	4260.8	2834.9	1724.6	1318.8	1223.0	1194.8	1200.5
22.5°	6284.1	6160.1	5968.5	5100.6	3573.2	1888.1	1239.9	1177.9	1161.0	1138.5	1144.1
25°	6582.8	6470.1	6069.9	4858.2	2547.5	1251.2	1149.7	1115.9	1087.7	1059.6	1053.9
27.5°	6847.7	6706.8	6177.0	4362.2	1595.0	1076.5	1065.2	1025.7	969.4	924.3	907.4
30°	7107.0	6943.5	6205.2	3432.3	1076.5	975.0	946.8	884.8	811.6	749.6	738.3
32.5°	7540.9	7343.7	6165.8	2451.6	929.9	867.9	805.9	732.7	625.6	574.9	563.6
35°	8217.2	7918.5	6115.0	1442.8	834.1	766.5	670.7	574.9	496.0	445.2	434.0
37.5°	8995.0	8476.5	5968.5	963.8	766.5	676.3	552.3	456.5	388.9	349.4	338.2
40°	10150.4	9293.7	5404.9	789.0	682.0	574.9	445.2	360.7	310.0	281.8	270.5
42.5°	11424.1	10229.3	4537.0	710.1	603.0	490.3	355.1	293.1	253.6	225.4	225.4
45°	12951.5	11204.3	3499.9	648.1	535.4	405.8	293.1	236.7	202.9	180.4	169.1
47.5°	14653.5	12089.2	2361.5	586.1	450.9	332.5	242.3	180.4	146.5	129.6	129.6
50°	16175.2	12872.6	1504.8	512.9	394.5	276.2	197.3	146.5	118.4	95.8	90.2
52.5°	17556.0	13470.0	1037.0	450.9	338.2	225.4	163.4	118.4	90.2	73.3	73.3
55°	18970.7	13774.3	766.5	388.9	293.1	191.6	135.3	107.1	78.9	62.0	56.4
57.5°	20131.7	13903.9	586.1	338.2	248.0	152.2	118.4	90.2	67.6	50.7	45.1
60°	21123.6	13841.9	456.5	281.8	197.3	129.6	101.4	73.3	56.4	39.5	33.8
62.5°	21704.1	13470.0	360.7	242.3	157.8	112.7	84.5	62.0	39.5	28.2	22.5
65°	21715.4	12680.9	281.8	180.4	118.4	95.8	73.3	50.7	28.2	11.3	5.6
67.5°	20159.9	10973.2	225.4	140.9	95.8	73.3	56.4	39.5	11.3	0.0	0.0
70°	15769.4	8301.8	186.0	112.7	78.9	62.0	39.5	22.5	5.6	0.0	0.0
72.5°	10048.9	4970.9	152.2	90.2	67.6	45.1	28.2	16.9	0.0	0.0	0.0
75°	4204.4	1533.0	118.4	78.9	50.7	33.8	22.5	5.6	0.0	0.0	0.0
77.5°	1082.1	484.7	95.8	67.6	50.7	28.2	16.9	5.6	0.0	0.0	0.0
80°	321.3	180.4	78.9	56.4	39.5	22.5	11.3	5.6	0.0	0.0	0.0
82.5°	146.5	107.1	67.6	50.7	33.8	22.5	11.3	0.0	0.0	0.0	0.0
85°	56.4	33.8	33.8	28.2	28.2	16.9	5.6	0.0	0.0	0.0	0.0
87.5°	22.5	11.3	11.3	11.3	5.6	5.6	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)