

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: P482478

Luminaire Tested: **IFLD-L-SA8C-740-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482478
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

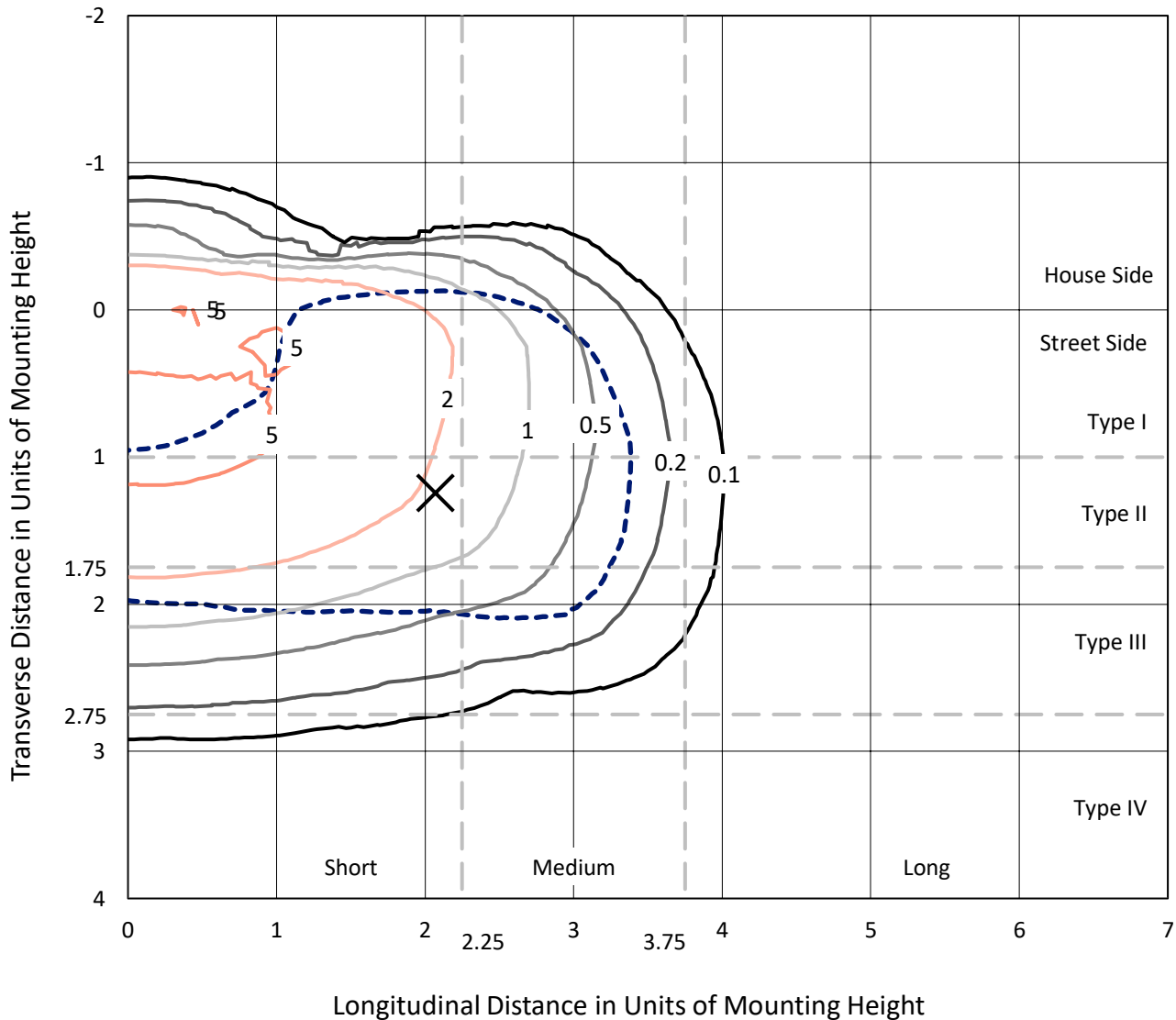
Lumens per Lamp: N/A
Luminaire Lumens: 37593.9 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

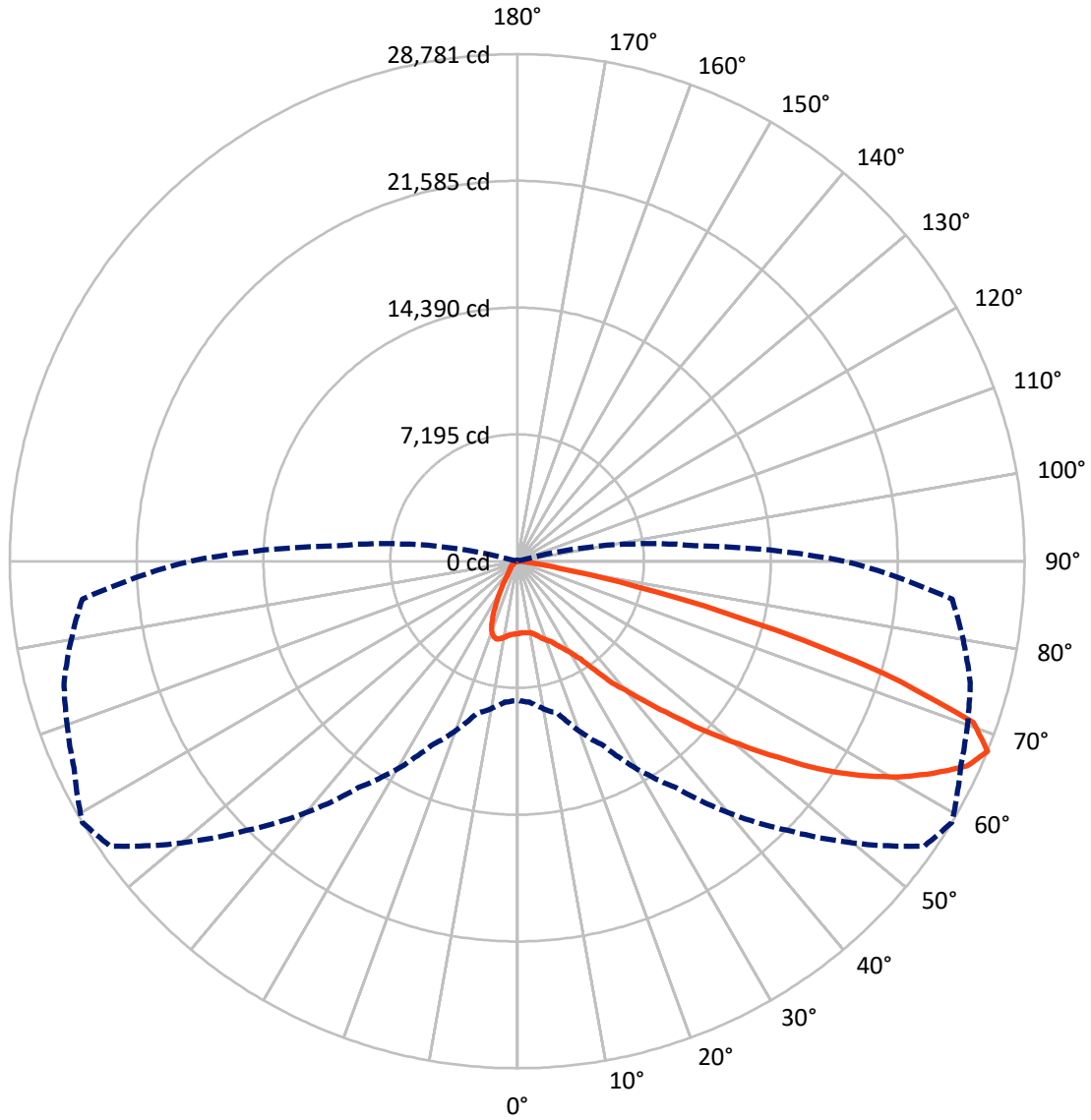
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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	4416.1	0.0	4416.1
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	33177.8	0.0	33177.8
	% Fixture	88.3	0.0	88.3
Total	Lumens	37593.9	0.0	37593.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.7	1.0
10°-20°	1131.4	3.0
20°-30°	1977.4	5.3
30°-40°	3481.4	9.3
40°-50°	6154.1	16.4
50°-60°	9744.1	25.9
60°-70°	10808.9	28.8
70°-80°	3750.4	10.0
80°-90°	154.4	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°	37593.9	100.0
0°-180°	37593.9	100.0

Coefficient of Utilization

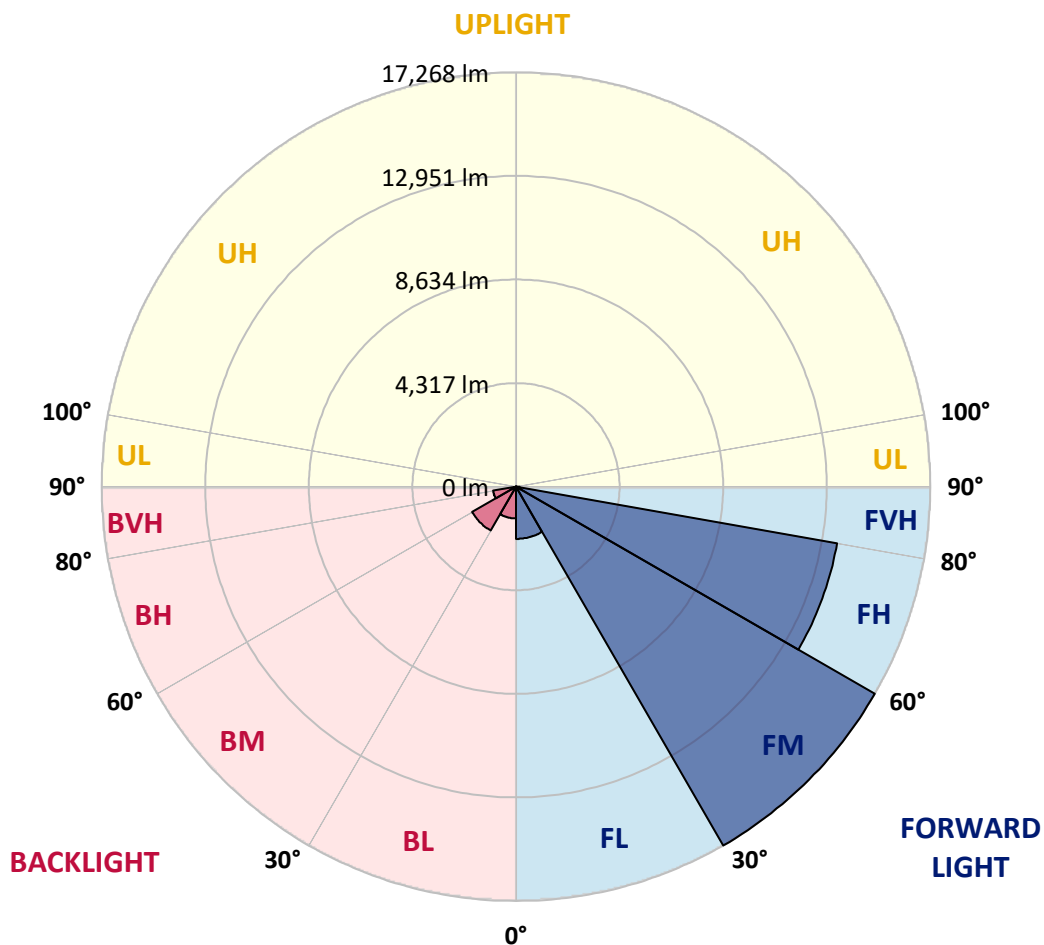


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2177.0	5.8			
FM (30°-60°)	17268.3	45.9			
FH (60°-80°)	13588.2	36.1			G5
FVH (80°-90°)	144.4	0.4			G2/225
BL (0°-30°)	1323.5	3.5	B3/2500		
BM (30°-60°)	2111.4	5.6	B2/2500		
BH (60°-80°)	971.2	2.6	B2/1000		G2/1000
BVH (80°-90°)	10.0	0.0			G0/10
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°	4123.4	4123.4	4123.4	4123.4	4123.4	4123.4	4123.4	4123.4	4123.4	4123.4	4123.4
2.5°	4003.9	3946.8	3998.7	4003.9	4009.1	4055.9	4107.8	4071.4	4066.3	4107.8	4144.1
5°	3842.9	3817.0	3879.3	3910.5	3962.4	4003.9	4087.0	4092.2	4097.4	4144.1	4206.5
7.5°	3775.4	3713.1	3785.8	3822.2	3858.5	3957.2	4055.9	4107.8	4180.5	4237.6	4299.9
10°	3640.4	3687.1	3707.9	3770.2	3874.1	3988.4	4107.8	4133.8	4294.7	4341.5	4492.1
12.5°	3687.1	3718.3	3759.9	3775.4	3889.7	4061.1	4222.0	4232.4	4398.6	4601.1	4679.0
15°	3806.6	3785.8	3801.4	3822.2	3957.2	4097.4	4357.1	4403.8	4559.6	4788.1	4980.2
17.5°	4061.1	4024.7	3998.7	3993.5	4024.7	4154.5	4460.9	4601.1	4746.6	5058.1	5156.8
20°	4699.8	4668.7	4564.8	4294.7	4201.3	4253.2	4585.6	4782.9	4985.4	5333.4	5494.4
22.5°	5670.9	5702.1	5458.0	5078.9	4689.4	4486.9	4782.9	4954.3	5276.3	5717.7	5863.1
25°	6818.6	6756.3	6460.3	6018.9	5406.1	4928.3	5099.7	5291.8	5686.5	6050.0	6107.2
27.5°	7717.0	7644.3	7415.8	6880.9	6351.2	5577.5	5515.1	5634.6	6102.0	6429.1	6366.8
30°	8605.1	8631.0	8475.3	7841.7	7187.3	6372.0	5977.3	6029.3	6387.6	6808.2	6668.0
32.5°	9737.2	9674.9	9586.6	9030.9	8257.1	7384.7	6709.6	6626.5	6782.3	7337.9	7171.8
35°	10791.4	10755.1	10635.6	10074.7	9399.6	8449.3	7789.8	7602.8	7566.4	8184.4	7893.6
37.5°	11710.6	11648.3	11466.5	11108.2	10453.8	9654.1	8932.2	8766.1	8760.9	9186.7	8625.9
40°	12484.4	12531.1	12510.3	12115.7	11757.3	11118.6	10012.4	9747.6	9726.8	9955.3	9628.1
42.5°	13486.7	13595.7	13538.6	13460.7	13029.7	12780.4	11528.8	11123.8	10942.0	11409.4	11113.4
45°	15003.1	15044.6	15081.0	14888.8	14457.8	14509.7	13097.2	12614.2	12567.5	13263.4	12598.6
47.5°	16420.8	16311.7	16566.2	16576.6	16555.8	16316.9	14790.1	14431.8	14494.1	15023.8	14338.3
50°	16773.9	17054.4	17755.4	17885.3	18222.8	18440.9	16670.1	16311.7	16415.6	17018.0	16233.8
52.5°	17049.2	17475.0	18176.1	19126.4	20035.2	20554.6	18773.3	18482.5	18477.3	18846.0	17765.8
55°	17532.1	17791.8	18399.4	19708.1	21437.4	22289.1	21307.6	20840.2	20419.5	20679.2	19354.9
57.5°	17485.4	17584.1	18529.2	20144.3	22548.7	24096.3	23390.0	22943.4	22403.3	22252.7	21182.9
60°	16664.9	16898.6	17958.0	19848.3	23234.2	25503.6	25332.3	24875.3	23945.7	23592.6	22585.1
62.5°	15039.4	15351.0	16181.9	18809.7	22237.1	25576.4	26672.1	26500.7	25462.1	24828.5	24413.1
65°	12188.4	12333.8	13289.3	16171.5	19983.3	24459.8	28256.0	28043.1	27087.6	26142.4	25353.0
67.5°	7893.6	8033.8	8953.0	11544.4	15693.8	21577.6	28193.7	28780.5	27747.1	26609.8	24766.2
70°	3728.7	3692.3	4549.2	6413.6	10054.0	16477.9	26287.8	27445.9	26568.2	24122.3	20570.1
72.5°	1137.3	1236.0	1890.3	2840.7	5162.0	10277.3	20606.5	21691.9	21416.6	19271.8	13730.7
75°	503.7	545.3	742.6	1163.3	2092.8	4216.9	12728.5	13694.4	13574.9	11367.8	6268.2
77.5°	322.0	353.1	467.4	664.7	950.3	1339.8	5863.1	6803.1	6595.3	3993.5	1641.0
80°	228.5	244.1	332.4	457.0	597.2	550.5	2020.1	2399.2	2300.6	1085.4	441.4
82.5°	124.6	135.0	244.1	337.6	399.9	280.4	566.1	706.3	737.4	483.0	212.9
85°	46.7	57.1	150.6	238.9	207.7	129.8	166.2	202.5	264.9	264.9	98.7
87.5°	0.0	5.2	62.3	103.9	51.9	36.4	46.7	57.1	72.7	124.6	36.4
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°	4123.4	4123.4	4123.4	4123.4	4123.4	4123.4	4123.4	4123.4	4123.4	4123.4	4123.4
2.5°	4170.1	4133.8	4149.3	4175.3	4118.2	4149.3	4087.0	4133.8	4149.3	4087.0	4118.2
5°	4222.0	4258.4	4237.6	4196.1	4159.7	4170.1	4154.5	4118.2	4149.3	4159.7	4139.0
7.5°	4372.6	4331.1	4341.5	4294.7	4222.0	4216.9	4118.2	4092.2	4102.6	4113.0	4076.6
10°	4512.9	4538.8	4486.9	4450.5	4331.1	4253.2	4118.2	3972.8	3957.2	3894.9	3946.8
12.5°	4762.1	4699.8	4679.0	4559.6	4440.2	4180.5	3889.7	3666.4	3479.4	3411.9	3344.4
15°	4969.9	4959.5	4923.1	4741.4	4466.1	3993.5	3443.1	2923.8	2565.4	2342.1	2311.0
17.5°	5255.5	5208.7	5141.2	4855.6	4274.0	3505.4	2565.4	1911.1	1552.8	1412.5	1360.6
20°	5473.6	5437.2	5343.8	4829.6	3926.0	2612.2	1589.1	1215.2	1126.9	1101.0	1106.1
22.5°	5790.4	5676.1	5499.6	4699.8	3292.5	1739.7	1142.5	1085.4	1069.8	1049.0	1054.2
25°	6065.6	5961.8	5593.0	4476.5	2347.3	1152.9	1059.4	1028.2	1002.3	976.3	971.1
27.5°	6309.7	6179.9	5691.7	4019.5	1469.7	991.9	981.5	945.2	893.2	851.7	836.1
30°	6548.6	6398.0	5717.7	3162.6	991.9	898.4	872.5	815.3	747.8	690.7	680.3
32.5°	6948.5	6766.7	5681.3	2259.0	856.9	799.7	742.6	675.1	576.4	529.7	519.3
35°	7571.6	7296.4	5634.6	1329.5	768.6	706.3	618.0	529.7	457.0	410.3	399.9
37.5°	8288.3	7810.5	5499.6	888.0	706.3	623.2	508.9	420.6	358.3	322.0	311.6
40°	9352.9	8563.5	4980.2	727.0	628.4	529.7	410.3	332.4	285.6	259.7	249.3
42.5°	10526.6	9425.6	4180.5	654.3	555.7	451.8	327.2	270.0	233.7	207.7	207.7
45°	11933.9	10324.0	3225.0	597.2	493.4	373.9	270.0	218.1	187.0	166.2	155.8
47.5°	13502.2	11139.3	2175.9	540.1	415.5	306.4	223.3	166.2	135.0	119.4	119.4
50°	14904.4	11861.2	1386.6	472.6	363.5	254.5	181.8	135.0	109.1	88.3	83.1
52.5°	16176.7	12411.7	955.5	415.5	311.6	207.7	150.6	109.1	83.1	67.5	67.5
55°	17480.2	12692.1	706.3	358.3	270.0	176.6	124.6	98.7	72.7	57.1	51.9
57.5°	18550.0	12811.5	540.1	311.6	228.5	140.2	109.1	83.1	62.3	46.7	41.5
60°	19464.0	12754.4	420.6	259.7	181.8	119.4	93.5	67.5	51.9	36.4	31.2
62.5°	19998.9	12411.7	332.4	223.3	145.4	103.9	77.9	57.1	36.4	26.0	20.8
65°	20009.3	11684.6	259.7	166.2	109.1	88.3	67.5	46.7	26.0	10.4	5.2
67.5°	18576.0	10111.1	207.7	129.8	88.3	67.5	51.9	36.4	10.4	0.0	0.0
70°	14530.5	7649.5	171.4	103.9	72.7	57.1	36.4	20.8	5.2	0.0	0.0
72.5°	9259.4	4580.4	140.2	83.1	62.3	41.5	26.0	15.6	0.0	0.0	0.0
75°	3874.1	1412.5	109.1	72.7	46.7	31.2	20.8	5.2	0.0	0.0	0.0
77.5°	997.1	446.6	88.3	62.3	46.7	26.0	15.6	5.2	0.0	0.0	0.0
80°	296.0	166.2	72.7	51.9	36.4	20.8	10.4	5.2	0.0	0.0	0.0
82.5°	135.0	98.7	62.3	46.7	31.2	20.8	10.4	0.0	0.0	0.0	0.0
85°	51.9	31.2	31.2	26.0	26.0	15.6	5.2	0.0	0.0	0.0	0.0
87.5°	20.8	10.4	10.4	10.4	5.2	5.2	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)