

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: P482512

Luminaire Tested: **IFLD-L-SA7C-750-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482512  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-750-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

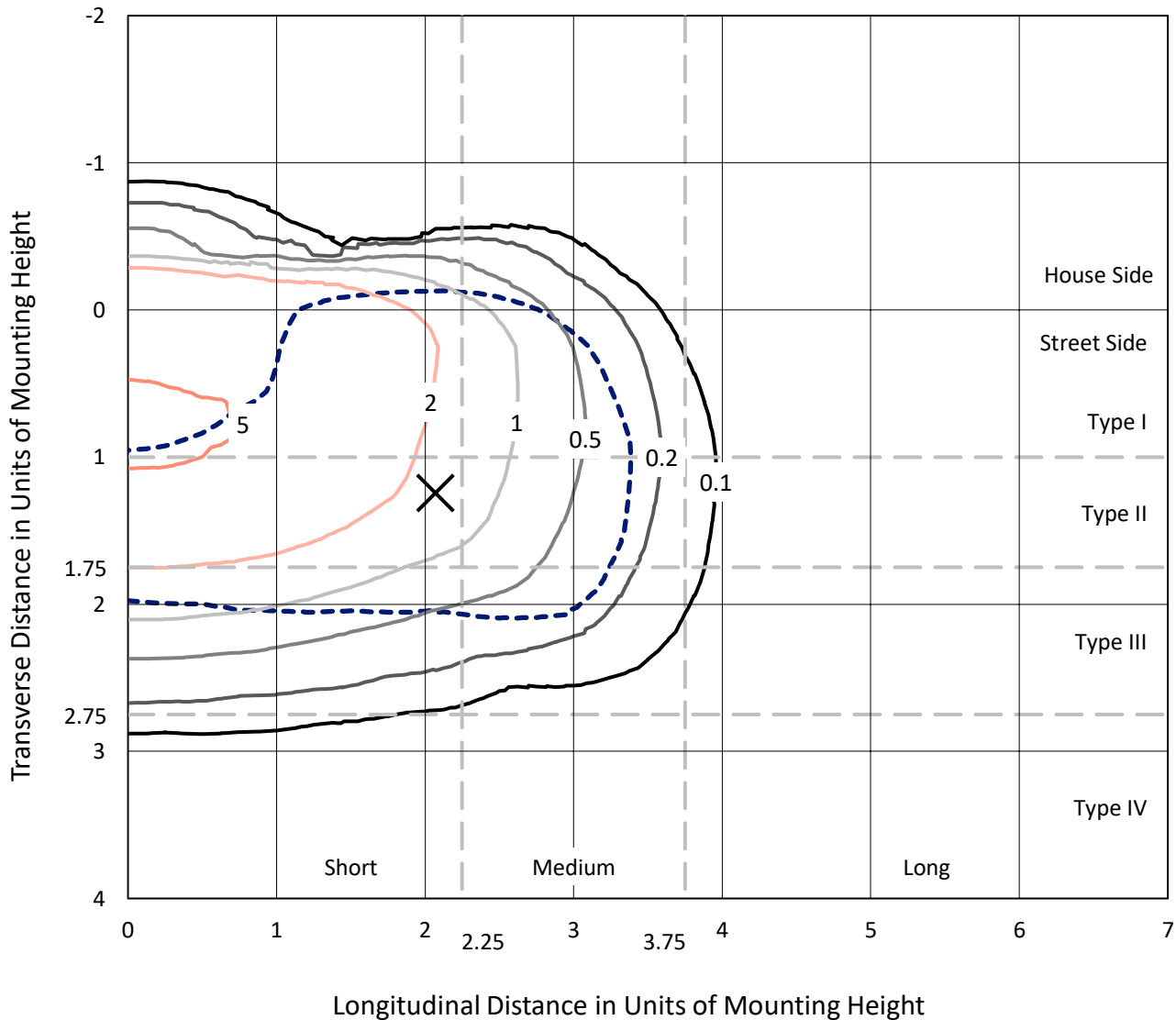
Lumens per Lamp: N/A  
Luminaire Lumens: 33647.8 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 369  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

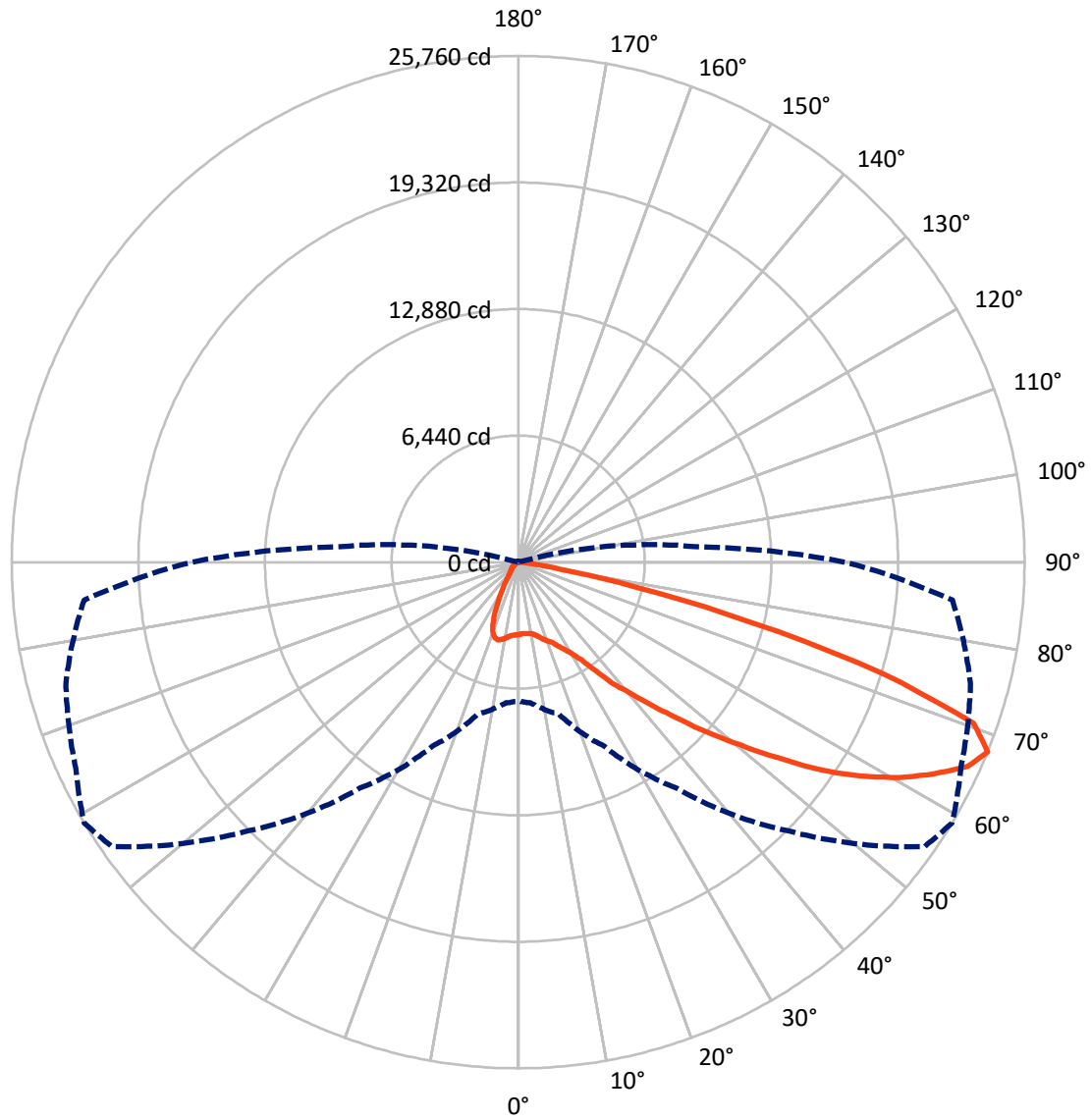
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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
<b>House Side</b>	Lumens	3952.5	0.0	3952.5
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	29695.3	0.0	29695.3
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	33647.8	0.0	33647.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.6	1.0
10°-20°	1012.6	3.0
20°-30°	1769.8	5.3
30°-40°	3116.0	9.3
40°-50°	5508.1	16.4
50°-60°	8721.3	25.9
60°-70°	9674.3	28.8
70°-80°	3356.8	10.0
80°-90°	138.2	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°	33647.8	100.0
0°-180°	33647.8	100.0

**Coefficient of Utilization**



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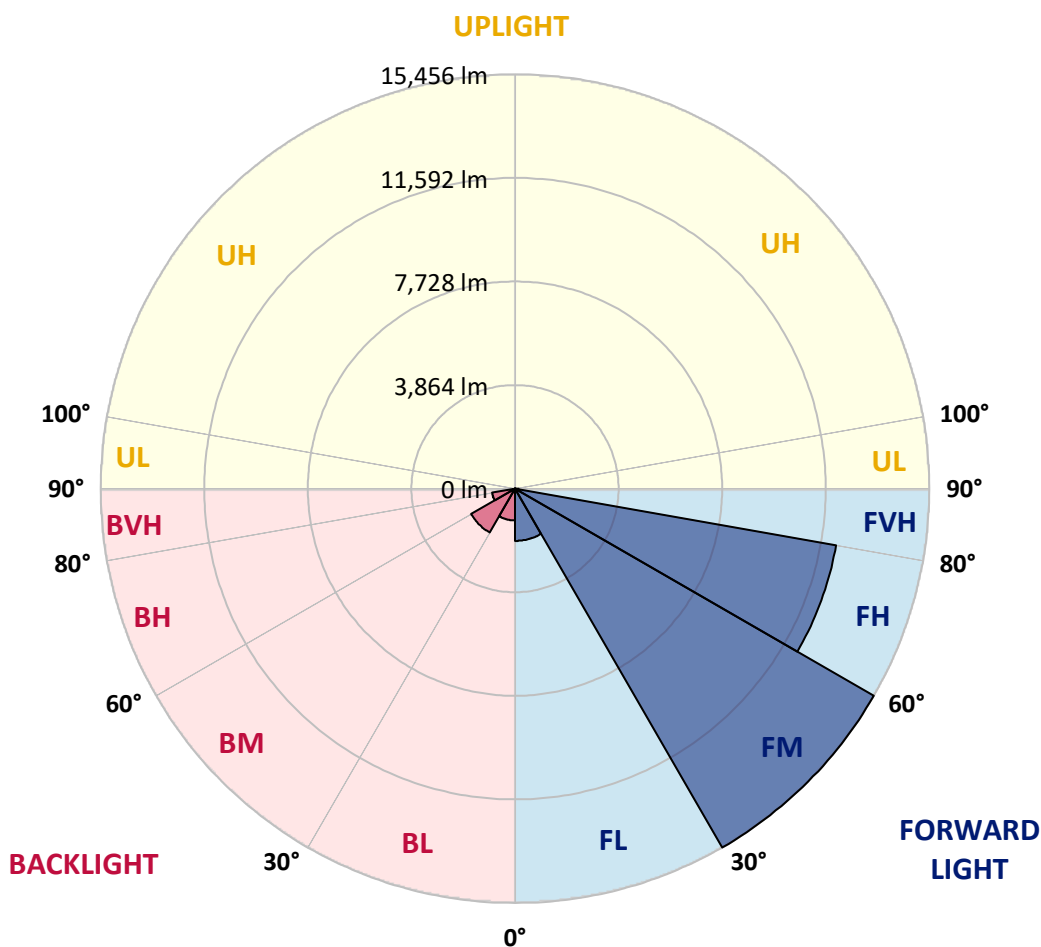
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1948.5	5.8			
FM (30°-60°)	15455.7	45.9			
FH (60°-80°)	12161.9	36.1			G5
FVH (80°-90°)	129.3	0.4			G2/225
BL (0°-30°)	1184.6	3.5	B3/2500		
BM (30°-60°)	1889.7	5.6	B2/2500		
BH (60°-80°)	869.2	2.6	B2/1000		G2/1000
BVH (80°-90°)	8.9	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°	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6
2.5°	3583.7	3532.5	3579.0	3583.7	3588.3	3630.1	3676.6	3644.1	3639.4	3676.6	3709.2
5°	3439.6	3416.3	3472.1	3500.0	3546.5	3583.7	3658.0	3662.7	3667.3	3709.2	3764.9
7.5°	3379.1	3323.4	3388.4	3421.0	3453.5	3541.8	3630.1	3676.6	3741.7	3792.8	3848.6
10°	3258.3	3300.1	3318.7	3374.5	3467.5	3569.7	3676.6	3699.9	3844.0	3885.8	4020.6
12.5°	3300.1	3328.0	3365.2	3379.1	3481.4	3634.8	3778.9	3788.2	3936.9	4118.2	4187.9
15°	3407.0	3388.4	3402.4	3421.0	3541.8	3667.3	3899.7	3941.6	4081.0	4285.5	4457.5
17.5°	3634.8	3602.3	3579.0	3574.4	3602.3	3718.5	3992.7	4118.2	4248.3	4527.2	4615.5
20°	4206.5	4178.6	4085.7	3844.0	3760.3	3806.8	4104.2	4280.9	4462.1	4773.6	4917.7
22.5°	5075.7	5103.6	4885.1	4545.8	4197.2	4015.9	4280.9	4434.3	4722.4	5117.5	5247.7
25°	6102.9	6047.1	5782.2	5387.1	4838.6	4411.0	4564.4	4736.4	5089.6	5415.0	5466.1
27.5°	6907.0	6842.0	6637.4	6158.7	5684.6	4992.0	4936.2	5043.2	5461.5	5754.3	5698.5
30°	7701.8	7725.1	7585.6	7018.6	6432.9	5703.2	5349.9	5396.4	5717.1	6093.6	5968.1
32.5°	8715.1	8659.3	8580.3	8083.0	7390.4	6609.6	6005.3	5930.9	6070.4	6567.7	6419.0
35°	9658.7	9626.1	9519.2	9017.3	8413.0	7562.4	6972.1	6804.8	6772.2	7325.4	7065.1
37.5°	10481.4	10425.6	10262.9	9942.2	9356.6	8640.8	7994.7	7845.9	7841.3	8222.4	7720.4
40°	11174.0	11215.8	11197.2	10843.9	10523.2	9951.5	8961.5	8724.4	8705.8	8910.3	8617.5
42.5°	12071.0	12168.6	12117.5	12047.8	11662.0	11438.9	10318.7	9956.2	9793.5	10211.8	9946.9
45°	13428.3	13465.5	13498.0	13326.0	12940.2	12986.7	11722.4	11290.2	11248.3	11871.2	11276.2
47.5°	14697.2	14599.6	14827.3	14836.6	14818.0	14604.2	13237.7	12917.0	12972.8	13446.9	12833.3
50°	15013.3	15264.3	15891.7	16007.9	16310.1	16505.3	14920.3	14599.6	14692.5	15231.7	14529.9
52.5°	15259.6	15640.7	16268.2	17118.8	17932.2	18397.1	16802.8	16542.5	16537.8	16867.8	15901.0
55°	15691.9	15924.3	16468.1	17639.4	19187.2	19949.5	19071.0	18652.7	18276.2	18508.6	17323.3
57.5°	15650.0	15738.4	16584.3	18029.9	20181.9	21567.0	20934.9	20535.2	20051.8	19917.0	18959.5
60°	14915.6	15124.8	16073.0	17764.9	20795.5	22826.7	22673.3	22264.2	21432.2	21116.2	20214.4
62.5°	13460.8	13739.7	14483.4	16835.3	19903.0	22891.7	23872.5	23719.1	22789.5	22222.4	21850.6
65°	10909.0	11039.2	11894.4	14474.1	17885.8	21892.4	25290.1	25099.6	24244.3	23398.4	22691.9
67.5°	7065.1	7190.6	8013.3	10332.7	14046.5	19312.7	25234.4	25759.6	24834.6	23816.7	22166.6
70°	3337.3	3304.8	4071.7	5740.4	8998.7	14748.3	23528.5	24565.0	23779.5	21590.3	18411.0
72.5°	1017.9	1106.2	1691.9	2542.5	4620.2	9198.5	18443.5	19415.0	19168.6	17249.0	12289.5
75°	450.9	488.0	664.7	1041.2	1873.2	3774.2	11392.4	12257.0	12150.0	10174.6	5610.2
77.5°	288.2	316.1	418.3	595.0	850.6	1199.2	5247.7	6089.0	5903.0	3574.4	1468.8
80°	204.5	218.5	297.5	409.0	534.5	492.7	1808.1	2147.4	2059.1	971.4	395.1
82.5°	111.6	120.8	218.5	302.1	357.9	251.0	506.6	632.1	660.0	432.3	190.6
85°	41.8	51.1	134.8	213.8	185.9	116.2	148.7	181.3	237.1	237.1	88.3
87.5°	0.0	4.6	55.8	93.0	46.5	32.5	41.8	51.1	65.1	111.6	32.5
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°	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6	3690.6
2.5°	3732.4	3699.9	3713.8	3737.0	3685.9	3713.8	3658.0	3699.9	3713.8	3658.0	3685.9
5°	3778.9	3811.4	3792.8	3755.6	3723.1	3732.4	3718.5	3685.9	3713.8	3723.1	3704.5
7.5°	3913.7	3876.5	3885.8	3844.0	3778.9	3774.2	3685.9	3662.7	3672.0	3681.3	3648.7
10°	4039.2	4062.4	4015.9	3983.4	3876.5	3806.8	3685.9	3555.8	3541.8	3486.1	3532.5
12.5°	4262.3	4206.5	4187.9	4081.0	3974.1	3741.7	3481.4	3281.5	3114.2	3053.8	2993.4
15°	4448.2	4438.9	4406.4	4243.7	3997.3	3574.4	3081.7	2616.9	2296.1	2096.3	2068.4
17.5°	4703.8	4662.0	4601.6	4345.9	3825.4	3137.4	2296.1	1710.5	1389.8	1264.3	1217.8
20°	4899.1	4866.5	4782.9	4322.7	3513.9	2338.0	1422.3	1087.6	1008.6	985.4	990.0
22.5°	5182.6	5080.3	4922.3	4206.5	2946.9	1557.1	1022.6	971.4	957.5	938.9	943.6
25°	5428.9	5336.0	5006.0	4006.6	2100.9	1031.9	948.2	920.3	897.1	873.8	869.2
27.5°	5647.4	5531.2	5094.3	3597.6	1315.4	887.8	878.5	845.9	799.5	762.3	748.3
30°	5861.2	5726.4	5117.5	2830.7	887.8	804.1	780.9	729.7	669.3	618.2	608.9
32.5°	6219.1	6056.4	5085.0	2021.9	766.9	715.8	664.7	604.2	515.9	474.1	464.8
35°	6776.9	6530.5	5043.2	1189.9	687.9	632.1	553.1	474.1	409.0	367.2	357.9
37.5°	7418.3	6990.7	4922.3	794.8	632.1	557.8	455.5	376.5	320.7	288.2	278.9
40°	8371.2	7664.7	4457.5	650.7	562.4	474.1	367.2	297.5	255.6	232.4	223.1
42.5°	9421.6	8436.2	3741.7	585.7	497.3	404.4	292.8	241.7	209.2	185.9	185.9
45°	10681.3	9240.4	2886.4	534.5	441.6	334.7	241.7	195.2	167.3	148.7	139.4
47.5°	12085.0	9970.1	1947.5	483.4	371.8	274.2	199.9	148.7	120.8	106.9	106.9
50°	13340.0	10616.2	1241.0	423.0	325.4	227.8	162.7	120.8	97.6	79.0	74.4
52.5°	14478.7	11108.9	855.2	371.8	278.9	185.9	134.8	97.6	74.4	60.4	60.4
55°	15645.4	11359.9	632.1	320.7	241.7	158.0	111.6	88.3	65.1	51.1	46.5
57.5°	16602.9	11466.8	483.4	278.9	204.5	125.5	97.6	74.4	55.8	41.8	37.2
60°	17421.0	11415.7	376.5	232.4	162.7	106.9	83.7	60.4	46.5	32.5	27.9
62.5°	17899.7	11108.9	297.5	199.9	130.1	93.0	69.7	51.1	32.5	23.2	18.6
65°	17909.0	10458.2	232.4	148.7	97.6	79.0	60.4	41.8	23.2	9.3	4.6
67.5°	16626.1	9049.8	185.9	116.2	79.0	60.4	46.5	32.5	9.3	0.0	0.0
70°	13005.3	6846.6	153.4	93.0	65.1	51.1	32.5	18.6	4.6	0.0	0.0
72.5°	8287.5	4099.6	125.5	74.4	55.8	37.2	23.2	13.9	0.0	0.0	0.0
75°	3467.5	1264.3	97.6	65.1	41.8	27.9	18.6	4.6	0.0	0.0	0.0
77.5°	892.4	399.7	79.0	55.8	41.8	23.2	13.9	4.6	0.0	0.0	0.0
80°	264.9	148.7	65.1	46.5	32.5	18.6	9.3	4.6	0.0	0.0	0.0
82.5°	120.8	88.3	55.8	41.8	27.9	18.6	9.3	0.0	0.0	0.0	0.0
85°	46.5	27.9	27.9	23.2	23.2	13.9	4.6	0.0	0.0	0.0	0.0
87.5°	18.6	9.3	9.3	9.3	4.6	4.6	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)