

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: P483644

Luminaire Tested: **IFLD-L-SA7D-740-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483644  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-740-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

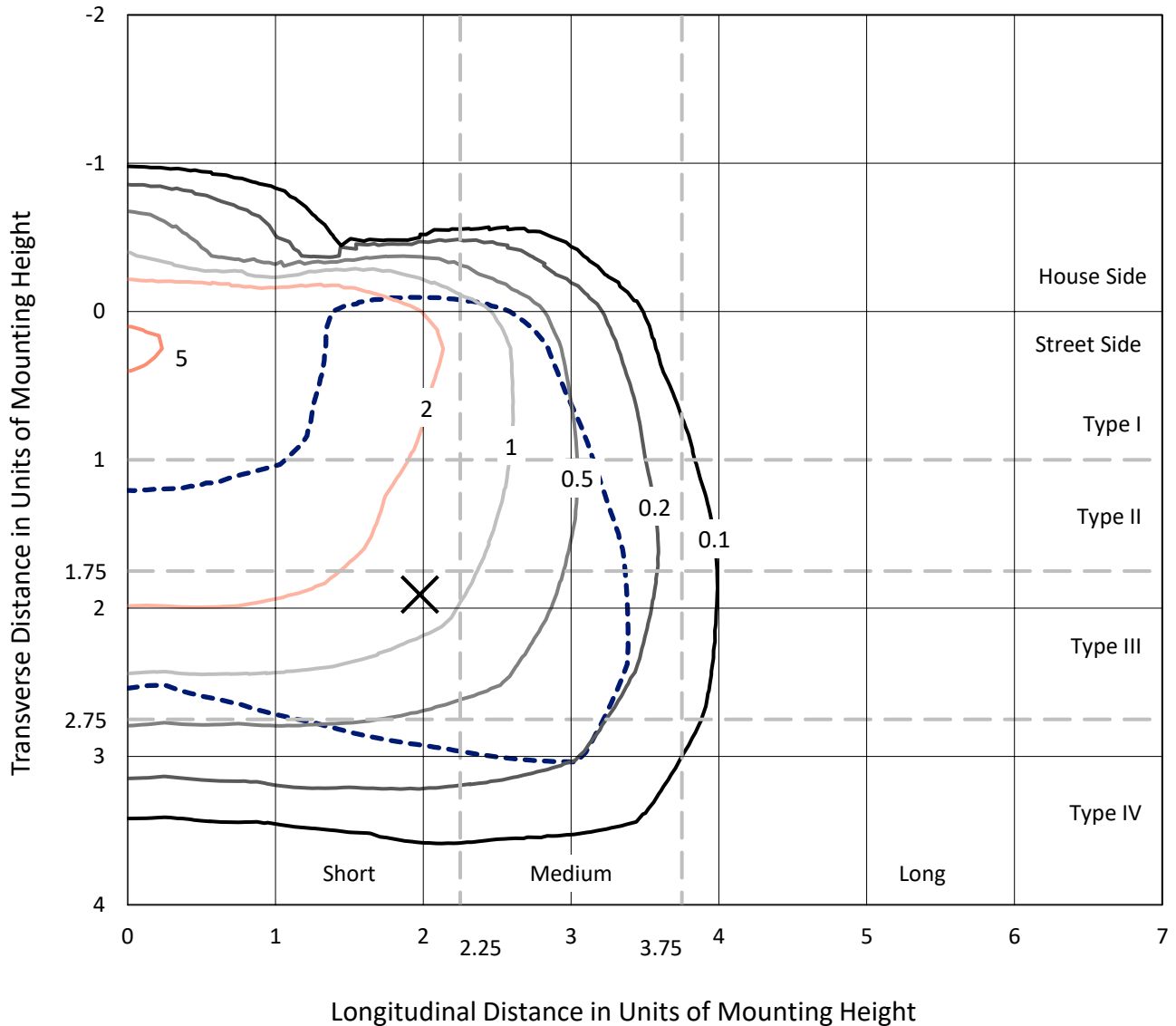
Lumens per Lamp: N/A  
Luminaire Lumens: 35990.9 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 422.6  
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

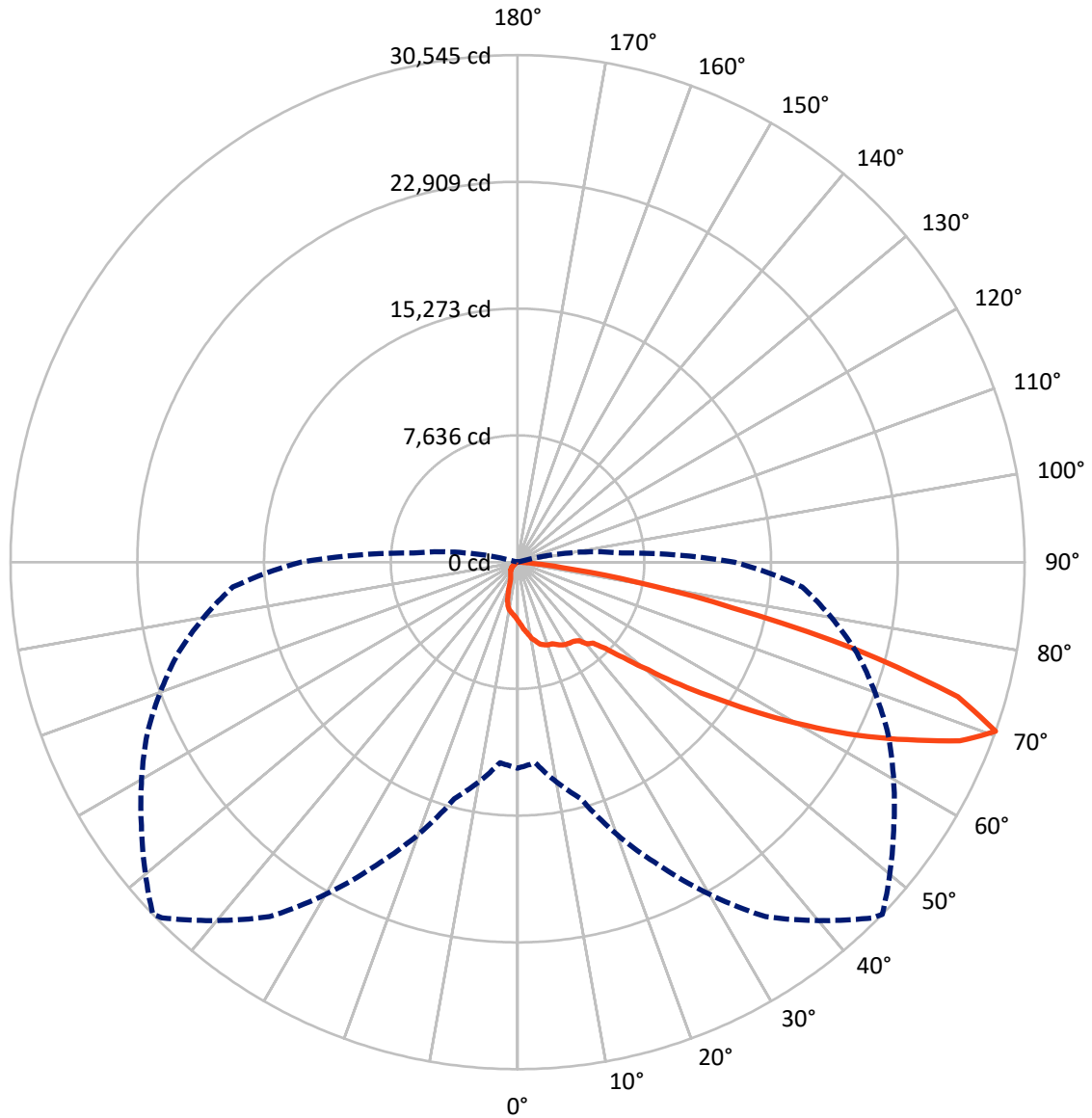
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3581.2	0.0	3581.2
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	32409.7	0.0	32409.7
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	35990.9	0.0	35990.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.3	1.0
10°-20°	1063.9	3.0
20°-30°	1704.2	4.7
30°-40°	2432.5	6.8
40°-50°	4200.2	11.7
50°-60°	8041.7	22.3
60°-70°	11908.4	33.1
70°-80°	5898.1	16.4
80°-90°	389.7	1.1
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°	35990.9	100.0
0°-180°	35990.9	100.0



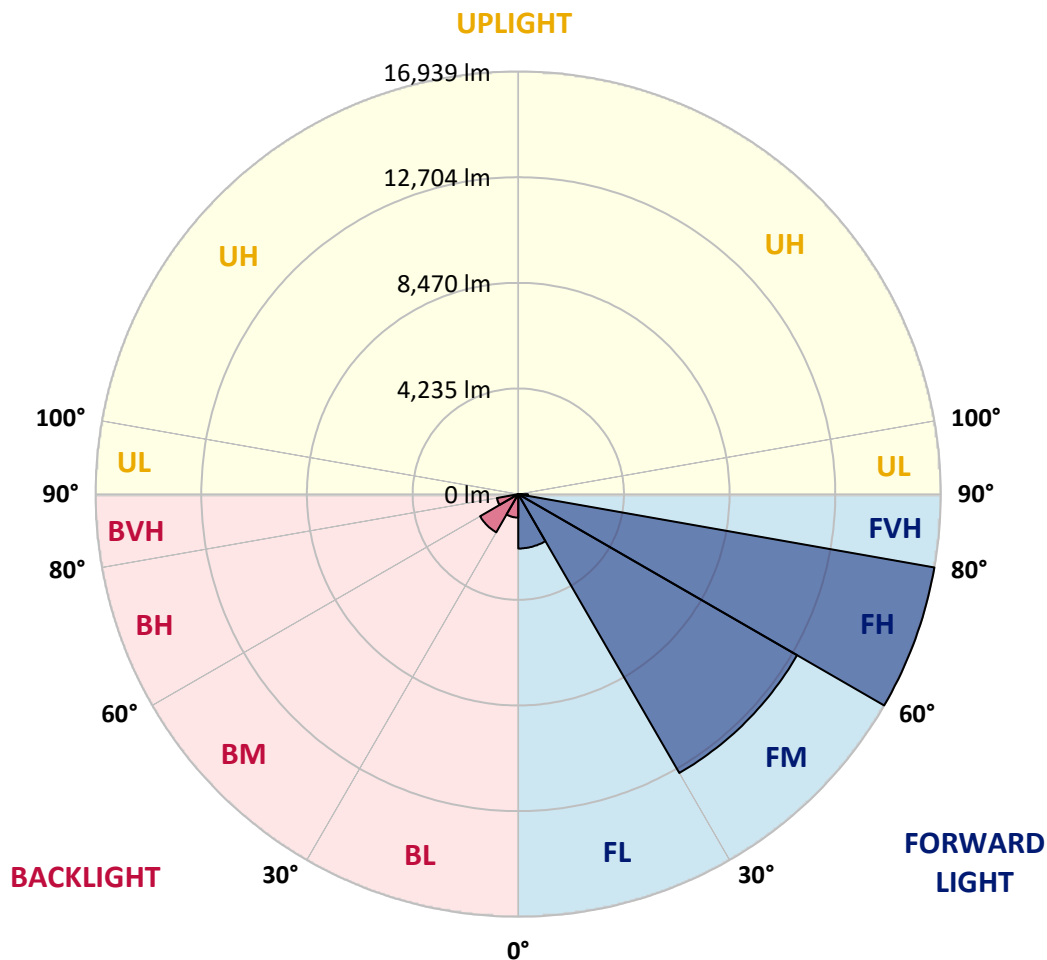
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2179.5	6.1			
FM (30°-60°)	12906.3	35.9			
FH (60°-80°)	16939.2	47.1			G5
FVH (80°-90°)	384.8	1.1			G3/500
BL (0°-30°)	940.8	2.6	B2/1000		
BM (30°-60°)	1768.0	4.9	B2/2500		
BH (60°-80°)	867.3	2.4	B2/1000		G2/1000
BVH (80°-90°)	5.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2
2.5°	3942.5	3916.6	3875.1	3859.6	3818.1	3797.4	3766.3	3750.8	3693.8	3636.8	3600.5
5°	4424.3	4362.1	4382.8	4320.6	4185.9	4077.2	4072.0	3952.8	3823.3	3719.7	3579.8
7.5°	4911.2	4859.4	4781.7	4693.7	4543.4	4382.8	4336.2	4222.2	4040.9	3859.6	3673.1
10°	5279.1	5242.8	5175.4	5051.1	4843.9	4662.6	4667.7	4476.1	4284.4	4077.2	3823.3
12.5°	5507.0	5522.6	5424.1	5299.8	5118.5	4890.5	4885.3	4755.8	4538.2	4320.6	4020.2
15°	5735.0	5791.9	5641.7	5496.6	5263.5	5097.7	5128.8	4973.4	4761.0	4512.3	4180.8
17.5°	5771.2	5786.8	5755.7	5543.3	5372.3	5232.4	5237.6	5134.0	4973.4	4704.0	4419.1
20°	5709.1	5698.7	5662.4	5507.0	5393.0	5310.1	5315.3	5289.4	5201.4	4983.8	4595.2
22.5°	5527.7	5527.7	5481.1	5377.5	5325.7	5403.4	5341.2	5439.7	5346.4	5216.9	4895.7
25°	5382.7	5439.7	5413.8	5346.4	5367.1	5470.7	5501.8	5595.1	5579.5	5418.9	5102.9
27.5°	5538.1	5470.7	5486.3	5408.6	5486.3	5641.7	5657.2	5724.6	5719.4	5589.9	5289.4
30°	5641.7	5703.9	5584.7	5413.8	5496.6	5760.9	5750.5	5838.6	5880.0	5724.6	5465.6
32.5°	5973.3	5921.5	5823.0	5595.1	5605.4	5755.7	5802.3	5916.3	5942.2	5848.9	5636.5
35°	6651.9	6574.2	6144.2	5802.3	5750.5	5823.0	5854.1	6076.9	6123.5	6019.9	5817.8
37.5°	7698.4	7522.3	7004.2	6247.8	6014.7	5999.2	5999.2	6294.5	6470.6	6232.3	6087.2
40°	9195.6	8946.9	8387.4	7071.6	6361.8	6424.0	6486.1	6646.7	6626.0	6470.6	6439.5
42.5°	11102.1	10910.4	10304.3	8454.8	7024.9	6714.1	6662.3	6879.9	7206.3	7144.1	7123.4
45°	12692.5	12702.9	12314.4	10350.9	8169.9	7382.4	7418.7	7584.4	8133.6	8087.0	8081.8
47.5°	13853.0	13707.9	13651.0	12179.7	9838.0	8651.7	8599.8	8713.8	9428.7	9724.0	9858.7
50°	14909.9	14811.4	14676.7	13956.6	11842.9	10242.1	10190.3	10200.7	11293.8	11708.2	12039.8
52.5°	16220.6	16344.9	15899.4	15459.0	14438.4	12309.2	12252.2	12050.1	13407.5	13977.3	14371.1
55°	17836.9	17603.8	17101.3	17329.2	16919.9	14542.0	14438.4	14200.1	15816.5	16054.8	16469.2
57.5°	18194.4	18018.2	18536.3	19344.5	19738.2	17163.4	17122.0	16692.0	17842.1	17624.5	18795.3
60°	19085.4	19132.1	19852.2	21458.2	22142.0	20188.9	19986.9	19230.5	19805.5	19847.0	21095.5
62.5°	20002.4	19893.6	21504.8	23048.6	24100.3	23053.8	22986.5	21484.1	22136.8	21608.4	23261.0
65°	19328.9	19494.7	21800.1	24385.2	26638.8	25856.5	25799.5	23654.8	24012.2	23354.3	24141.7
67.5°	16935.5	16598.7	19826.3	23773.9	27944.3	28793.9	28731.8	26022.3	25069.1	23343.9	22313.0
70°	12412.8	12122.7	14754.4	20131.9	26074.1	30296.3	30545.0	27669.7	24639.1	21168.1	17215.2
72.5°	6082.1	6087.2	8268.3	13651.0	20629.3	27612.8	27737.1	25369.5	21168.1	15604.1	9749.9
75°	1797.7	1818.4	3061.8	6693.4	13334.9	20971.2	21111.1	19256.4	14671.5	8061.1	3326.0
77.5°	657.9	657.9	1015.4	2512.6	6651.9	13236.5	13226.1	11822.2	7429.0	2730.2	777.1
80°	341.9	357.5	528.4	1025.8	2880.4	6895.4	7154.4	5786.8	2823.4	1150.1	227.9
82.5°	139.9	155.4	290.1	528.4	1383.2	2419.4	2647.3	2269.1	1227.8	803.0	103.6
85°	41.4	46.6	139.9	295.3	544.0	606.1	673.5	761.6	771.9	621.7	46.6
87.5°	5.2	5.2	57.0	98.4	119.2	129.5	150.2	150.2	393.7	435.2	25.9
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°	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2	3533.2
2.5°	3559.1	3533.2	3491.7	3398.5	3377.8	3310.4	3305.2	3243.1	3263.8	3222.4	3206.8
5°	3533.2	3476.2	3362.2	3289.7	3217.2	3170.5	3139.5	3113.6	3108.4	3087.7	3077.3
7.5°	3579.8	3502.1	3326.0	3212.0	3087.7	3046.2	2978.9	2973.7	2937.4	2901.2	2901.2
10°	3735.2	3595.4	3403.7	3212.0	3051.4	2916.7	2761.3	2647.3	2605.9	2512.6	2523.0
12.5°	3859.6	3735.2	3455.5	3258.6	3015.1	2709.5	2367.5	2103.3	1979.0	1859.8	1906.5
15°	4035.7	3854.4	3553.9	3269.0	2875.2	2346.8	1787.3	1492.0	1378.0	1352.1	1347.0
17.5°	4227.4	4035.7	3678.2	3243.1	2590.3	1813.2	1315.9	1144.9	1165.6	1196.7	1191.5
20°	4439.8	4206.7	3771.5	3155.0	2139.6	1315.9	1077.6	1072.4	1103.5	1150.1	1160.5
22.5°	4662.6	4460.5	3885.5	2890.8	1595.6	1056.8	1036.1	1036.1	1056.8	1113.8	1103.5
25°	4911.2	4641.8	3942.5	2481.5	1144.9	974.0	984.3	1005.0	1015.4	1062.0	1067.2
27.5°	5102.9	4843.9	3958.0	1989.4	932.5	901.4	927.3	953.2	968.8	1005.0	1020.6
30°	5279.1	5097.7	3875.1	1481.7	854.8	839.3	849.6	885.9	917.0	948.1	948.1
32.5°	5501.8	5242.8	3683.4	1051.7	808.2	782.3	777.1	792.6	828.9	865.2	865.2
35°	5729.8	5486.3	3377.8	844.4	766.7	730.5	709.7	694.2	709.7	735.6	756.4
37.5°	6061.3	5854.1	2994.4	777.1	735.6	683.8	642.4	606.1	580.2	575.0	590.6
40°	6532.8	6268.6	2502.2	730.5	699.4	637.2	575.0	512.9	455.9	419.6	424.8
42.5°	7247.7	6879.9	1968.6	704.6	673.5	585.4	497.3	409.3	336.7	300.5	300.5
45°	8268.3	7688.1	1445.4	678.7	642.4	523.2	409.3	305.7	233.1	212.4	217.6
47.5°	9806.9	8662.0	1036.1	637.2	601.0	455.9	321.2	217.6	171.0	160.6	165.8
50°	11817.0	9817.3	808.2	590.6	549.1	383.4	238.3	160.6	134.7	129.5	134.7
52.5°	13925.5	10982.9	709.7	549.1	471.4	305.7	176.1	129.5	114.0	108.8	114.0
55°	15728.4	11734.1	616.5	487.0	378.2	227.9	139.9	114.0	98.4	82.9	82.9
57.5°	17552.0	12112.3	487.0	404.1	279.8	171.0	119.2	98.4	82.9	67.3	62.2
60°	19033.6	12381.7	347.1	300.5	196.9	134.7	103.6	88.1	67.3	51.8	46.6
62.5°	20007.6	11609.8	253.9	227.9	145.1	114.0	88.1	72.5	51.8	36.3	36.3
65°	19525.8	10542.6	196.9	160.6	108.8	88.1	72.5	51.8	36.3	20.7	15.5
67.5°	17520.9	8589.5	160.6	119.2	82.9	67.3	57.0	41.4	20.7	5.2	5.2
70°	13070.7	6294.5	129.5	88.1	67.3	51.8	41.4	25.9	10.4	5.2	0.0
72.5°	7149.3	3445.1	103.6	72.5	51.8	41.4	31.1	20.7	10.4	0.0	0.0
75°	2362.4	917.0	77.7	51.8	31.1	25.9	20.7	15.5	5.2	0.0	0.0
77.5°	569.9	238.3	62.2	46.6	25.9	15.5	10.4	5.2	5.2	0.0	0.0
80°	176.1	98.4	46.6	31.1	20.7	15.5	5.2	0.0	0.0	0.0	0.0
82.5°	72.5	46.6	20.7	20.7	15.5	5.2	0.0	0.0	0.0	0.0	0.0
85°	36.3	25.9	15.5	10.4	10.4	5.2	0.0	0.0	0.0	0.0	0.0
87.5°	25.9	10.4	5.2	5.2	0.0	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)