

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: P482516

Luminaire Tested: **IFLD-L-SA8B-750-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482516  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-750-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (128) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

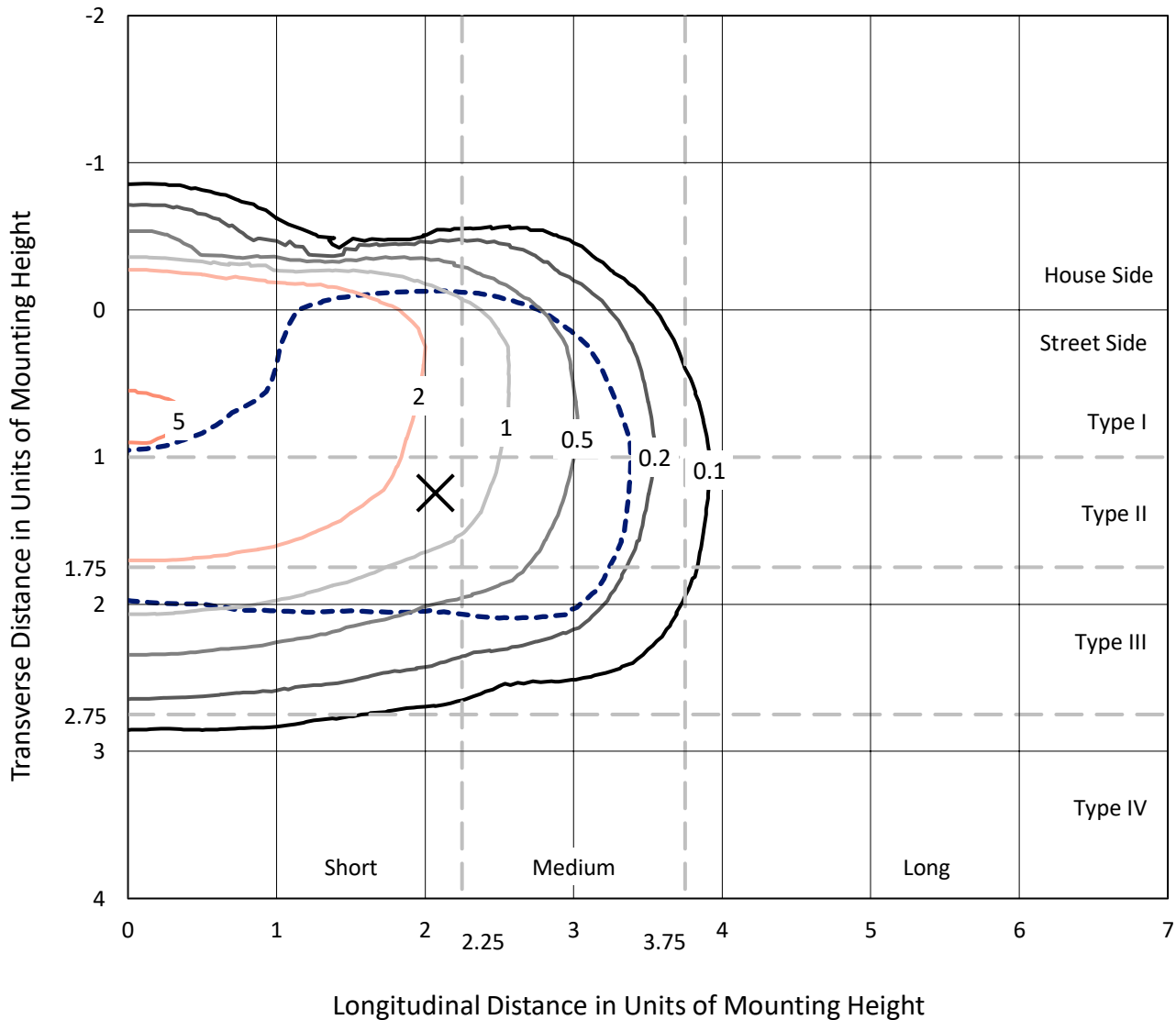
Lumens per Lamp: N/A  
Luminaire Lumens: 30891 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 320  
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

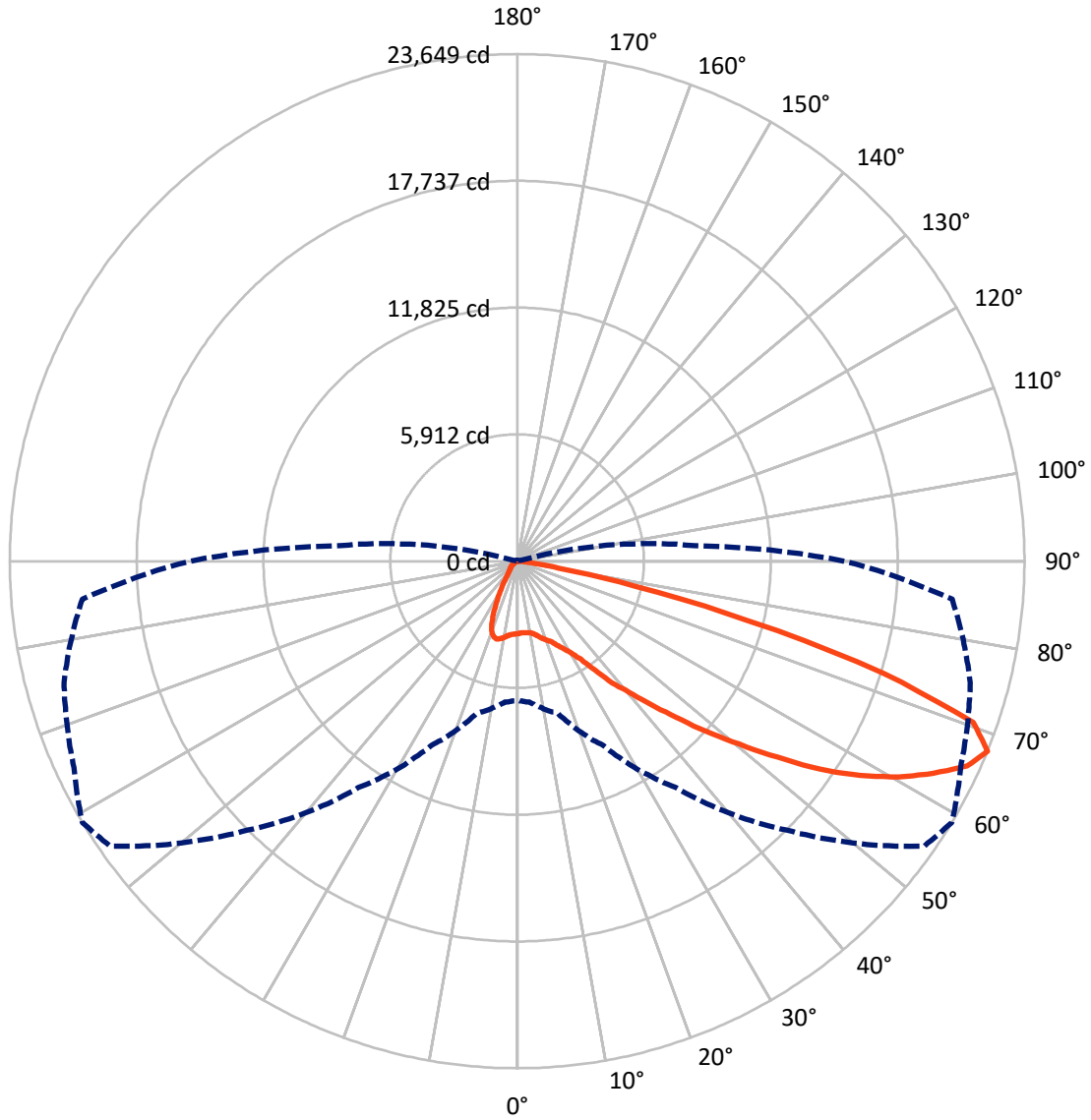
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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	3628.7	0.0	3628.7
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	27262.3	0.0	27262.3
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	30891.0	0.0	30891.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.9	1.0
10°-20°	929.7	3.0
20°-30°	1624.8	5.3
30°-40°	2860.7	9.3
40°-50°	5056.8	16.4
50°-60°	8006.8	25.9
60°-70°	8881.7	28.8
70°-80°	3081.7	10.0
80°-90°	126.9	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°	30891.0	100.0
0°-180°	30891.0	100.0

**Coefficient of Utilization**

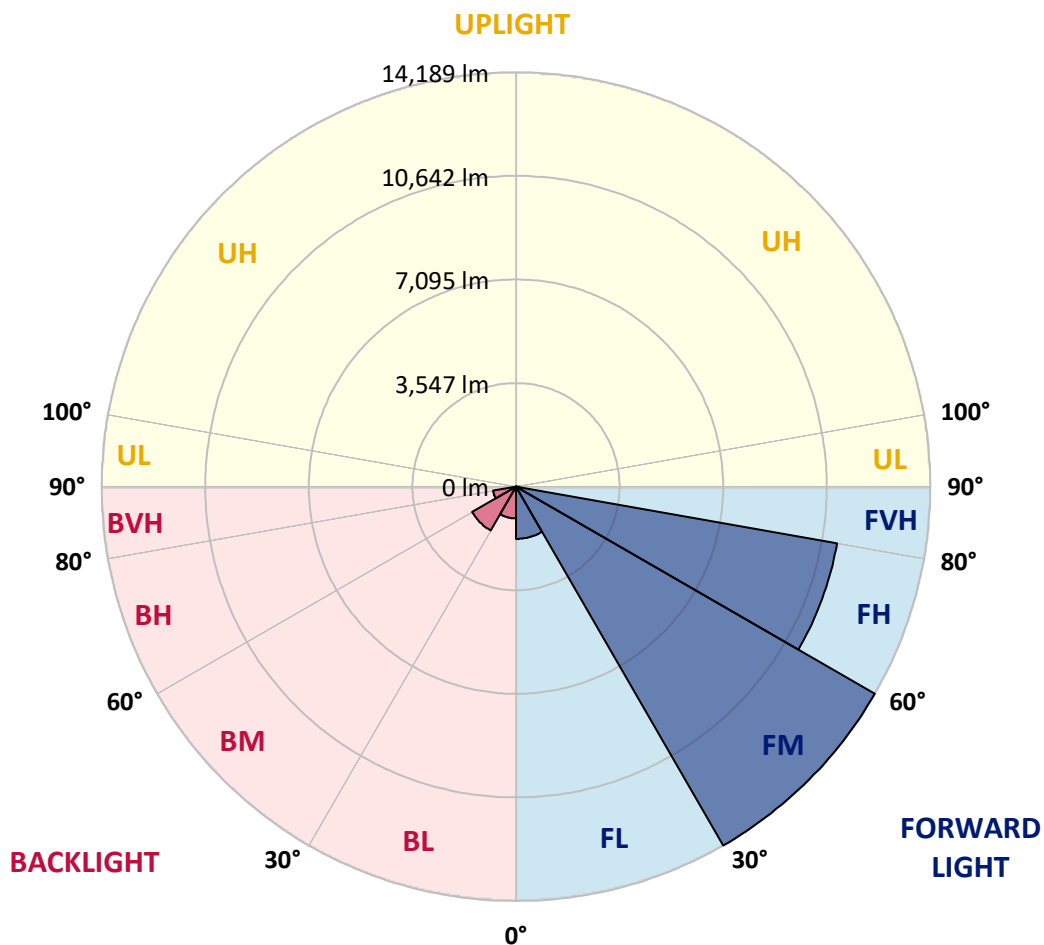


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1788.8	5.8			
FM (30°-60°)	14189.4	45.9			
FH (60°-80°)	11165.4	36.1			G4/12000
FVH (80°-90°)	118.7	0.4			G2/225
BL (0°-30°)	1087.5	3.5	B3/2500		
BM (30°-60°)	1734.9	5.6	B2/2500		
BH (60°-80°)	798.0	2.6	B2/1000		G2/1000
BVH (80°-90°)	8.2	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-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3388.2	3388.2	3388.2	3388.2	3388.2	3388.2	3388.2	3388.2	3388.2	3388.2	3388.2
2.5°	3290.0	3243.1	3285.8	3290.0	3294.3	3332.7	3375.4	3345.5	3341.2	3375.4	3405.3
5°	3157.8	3136.4	3187.6	3213.2	3255.9	3290.0	3358.3	3362.6	3366.8	3405.3	3456.5
7.5°	3102.3	3051.1	3110.8	3140.7	3170.6	3251.6	3332.7	3375.4	3435.1	3482.1	3533.3
10°	2991.3	3029.7	3046.8	3098.0	3183.4	3277.2	3375.4	3396.7	3529.0	3567.4	3691.2
12.5°	3029.7	3055.3	3089.5	3102.3	3196.2	3337.0	3469.3	3477.8	3614.3	3780.8	3844.8
15°	3127.9	3110.8	3123.6	3140.7	3251.6	3366.8	3580.2	3618.6	3746.6	3934.4	4092.3
17.5°	3337.0	3307.1	3285.8	3281.5	3307.1	3413.8	3665.6	3780.8	3900.3	4156.3	4237.4
20°	3861.8	3836.2	3750.9	3529.0	3452.2	3494.9	3768.0	3930.1	4096.5	4382.5	4514.7
22.5°	4659.8	4685.4	4484.9	4173.4	3853.3	3686.9	3930.1	4070.9	4335.5	4698.2	4817.7
25°	5602.9	5551.7	5308.4	4945.7	4442.2	4049.6	4190.4	4348.3	4672.6	4971.3	5018.3
27.5°	6341.1	6281.4	6093.6	5654.1	5218.8	4583.0	4531.8	4630.0	5014.0	5282.8	5231.6
30°	7070.8	7092.1	6964.1	6443.5	5905.9	5235.9	4911.6	4954.3	5248.7	5594.3	5479.1
32.5°	8001.1	7949.9	7877.3	7420.7	6784.9	6068.0	5513.3	5445.0	5573.0	6029.6	5893.1
35°	8867.3	8837.4	8739.3	8278.4	7723.7	6942.8	6400.9	6247.2	6217.4	6725.2	6486.2
37.5°	9622.6	9571.4	9422.1	9127.6	8589.9	7932.8	7339.6	7203.1	7198.8	7548.7	7087.9
40°	10258.4	10296.8	10279.8	9955.5	9661.0	9136.2	8227.2	8009.6	7992.5	8180.3	7911.5
42.5°	11082.0	11171.6	11124.7	11060.7	10706.5	10501.7	9473.3	9140.4	8991.1	9375.1	9131.9
45°	12328.0	12362.2	12392.1	12234.2	11880.0	11922.7	10762.0	10365.1	10326.7	10898.5	10352.3
47.5°	13493.0	13403.4	13612.5	13621.0	13603.9	13407.7	12153.1	11858.6	11909.9	12345.1	11781.8
50°	13783.2	14013.6	14589.7	14696.4	14973.7	15153.0	13697.8	13403.4	13488.7	13983.7	13339.4
52.5°	14009.3	14359.2	14935.3	15716.2	16463.0	16889.7	15426.1	15187.1	15182.8	15485.8	14598.2
55°	14406.2	14619.6	15118.8	16194.2	17615.1	18315.0	17508.5	17124.4	16778.8	16992.1	15904.0
57.5°	14367.8	14448.9	15225.5	16552.6	18528.3	19800.0	19219.6	18852.6	18408.9	18285.1	17406.1
60°	13693.6	13885.6	14756.1	16309.4	19091.6	20956.4	20815.6	20440.1	19676.2	19386.1	18558.2
62.5°	12357.9	12613.9	13296.7	15455.9	18272.3	21016.1	21916.5	21775.7	20922.3	20401.7	20060.3
65°	10015.2	10134.7	10919.9	13288.2	16420.3	20098.7	23218.0	23043.1	22257.9	21481.3	20832.6
67.5°	6486.2	6601.4	7356.7	9486.1	12895.6	17730.4	23166.8	23649.0	22799.8	21865.3	20350.4
70°	3063.9	3034.0	3738.1	5270.0	8261.4	13539.9	21600.7	22552.3	21831.2	19821.3	16902.5
72.5°	934.5	1015.6	1553.3	2334.2	4241.6	8444.9	16932.4	17824.2	17598.1	15835.7	11282.6
75°	413.9	448.1	610.2	955.9	1719.7	3465.0	10459.0	11252.7	11154.6	9341.0	5150.6
77.5°	264.6	290.2	384.1	546.2	780.9	1100.9	4817.7	5590.1	5419.4	3281.5	1348.4
80°	187.8	200.6	273.1	375.5	490.7	452.3	1660.0	1971.5	1890.4	891.9	362.7
82.5°	102.4	110.9	200.6	277.4	328.6	230.4	465.1	580.3	605.9	396.9	175.0
85°	38.4	46.9	123.7	196.3	170.7	106.7	136.6	166.4	217.6	217.6	81.1
87.5°	0.0	4.3	51.2	85.3	42.7	29.9	38.4	46.9	59.7	102.4	29.9
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°	3388.2	3388.2	3388.2	3388.2	3388.2	3388.2	3388.2	3388.2	3388.2	3388.2	3388.2
2.5°	3426.6	3396.7	3409.5	3430.9	3383.9	3409.5	3358.3	3396.7	3409.5	3358.3	3383.9
5°	3469.3	3499.1	3482.1	3447.9	3418.1	3426.6	3413.8	3383.9	3409.5	3418.1	3401.0
7.5°	3593.0	3558.9	3567.4	3529.0	3469.3	3465.0	3383.9	3362.6	3371.1	3379.7	3349.8
10°	3708.2	3729.6	3686.9	3657.0	3558.9	3494.9	3383.9	3264.4	3251.6	3200.4	3243.1
12.5°	3913.1	3861.8	3844.8	3746.6	3648.5	3435.1	3196.2	3012.7	2859.0	2803.6	2748.1
15°	4083.7	4075.2	4045.3	3896.0	3669.8	3281.5	2829.2	2402.5	2108.0	1924.5	1898.9
17.5°	4318.4	4280.0	4224.6	3989.9	3511.9	2880.4	2108.0	1570.3	1275.9	1160.7	1118.0
20°	4497.7	4467.8	4391.0	3968.5	3226.0	2146.4	1305.8	998.5	926.0	904.7	908.9
22.5°	4758.0	4664.1	4519.0	3861.8	2705.4	1429.5	938.8	891.9	879.1	862.0	866.2
25°	4984.1	4898.8	4595.8	3678.4	1928.8	947.3	870.5	844.9	823.6	802.2	798.0
27.5°	5184.7	5078.0	4676.9	3302.8	1207.6	815.0	806.5	776.6	734.0	699.8	687.0
30°	5381.0	5257.2	4698.2	2598.7	815.0	738.2	716.9	670.0	614.5	567.5	559.0
32.5°	5709.6	5560.2	4668.4	1856.2	704.1	657.2	610.2	554.7	473.7	435.3	426.7
35°	6221.6	5995.5	4630.0	1092.4	631.6	580.3	507.8	435.3	375.5	337.1	328.6
37.5°	6810.5	6417.9	4519.0	729.7	580.3	512.1	418.2	345.6	294.4	264.6	256.0
40°	7685.3	7036.7	4092.3	597.4	516.3	435.3	337.1	273.1	234.7	213.4	204.8
42.5°	8649.7	7745.0	3435.1	537.7	456.6	371.2	268.8	221.9	192.0	170.7	170.7
45°	9806.1	8483.3	2650.0	490.7	405.4	307.2	221.9	179.2	153.6	136.6	128.0
47.5°	11094.8	9153.2	1788.0	443.8	341.4	251.8	183.5	136.6	110.9	98.1	98.1
50°	12247.0	9746.4	1139.4	388.3	298.7	209.1	149.4	110.9	89.6	72.5	68.3
52.5°	13292.4	10198.7	785.2	341.4	256.0	170.7	123.7	89.6	68.3	55.5	55.5
55°	14363.5	10429.1	580.3	294.4	221.9	145.1	102.4	81.1	59.7	46.9	42.7
57.5°	15242.6	10527.3	443.8	256.0	187.8	115.2	89.6	68.3	51.2	38.4	34.1
60°	15993.6	10480.3	345.6	213.4	149.4	98.1	76.8	55.5	42.7	29.9	25.6
62.5°	16433.1	10198.7	273.1	183.5	119.5	85.3	64.0	46.9	29.9	21.3	17.1
65°	16441.7	9601.3	213.4	136.6	89.6	72.5	55.5	38.4	21.3	8.5	4.3
67.5°	15263.9	8308.3	170.7	106.7	72.5	55.5	42.7	29.9	8.5	0.0	0.0
70°	11939.7	6285.6	140.8	85.3	59.7	46.9	29.9	17.1	4.3	0.0	0.0
72.5°	7608.5	3763.7	115.2	68.3	51.2	34.1	21.3	12.8	0.0	0.0	0.0
75°	3183.4	1160.7	89.6	59.7	38.4	25.6	17.1	4.3	0.0	0.0	0.0
77.5°	819.3	367.0	72.5	51.2	38.4	21.3	12.8	4.3	0.0	0.0	0.0
80°	243.2	136.6	59.7	42.7	29.9	17.1	8.5	4.3	0.0	0.0	0.0
82.5°	110.9	81.1	51.2	38.4	25.6	17.1	8.5	0.0	0.0	0.0	0.0
85°	42.7	25.6	25.6	21.3	21.3	12.8	4.3	0.0	0.0	0.0	0.0
87.5°	17.1	8.5	8.5	8.5	4.3	4.3	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)