

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: P482595

Luminaire Tested: **IFLD-L-SA8C-827-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482595  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-827-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

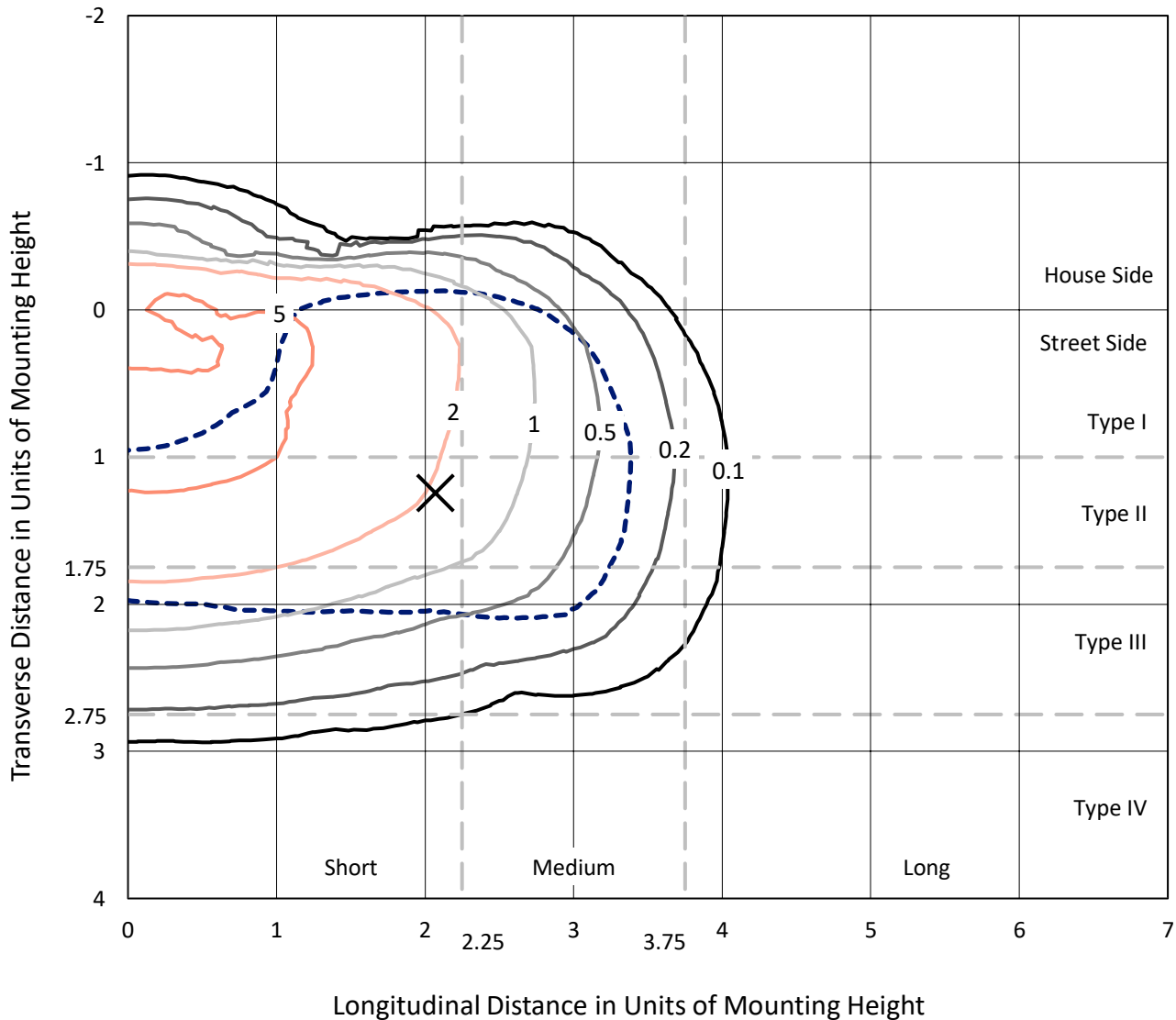
Lumens per Lamp: N/A  
Luminaire Lumens: 27635.3 lumens  
Efficiency: N/A  
Efficacy: 65.8 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 420.3  
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

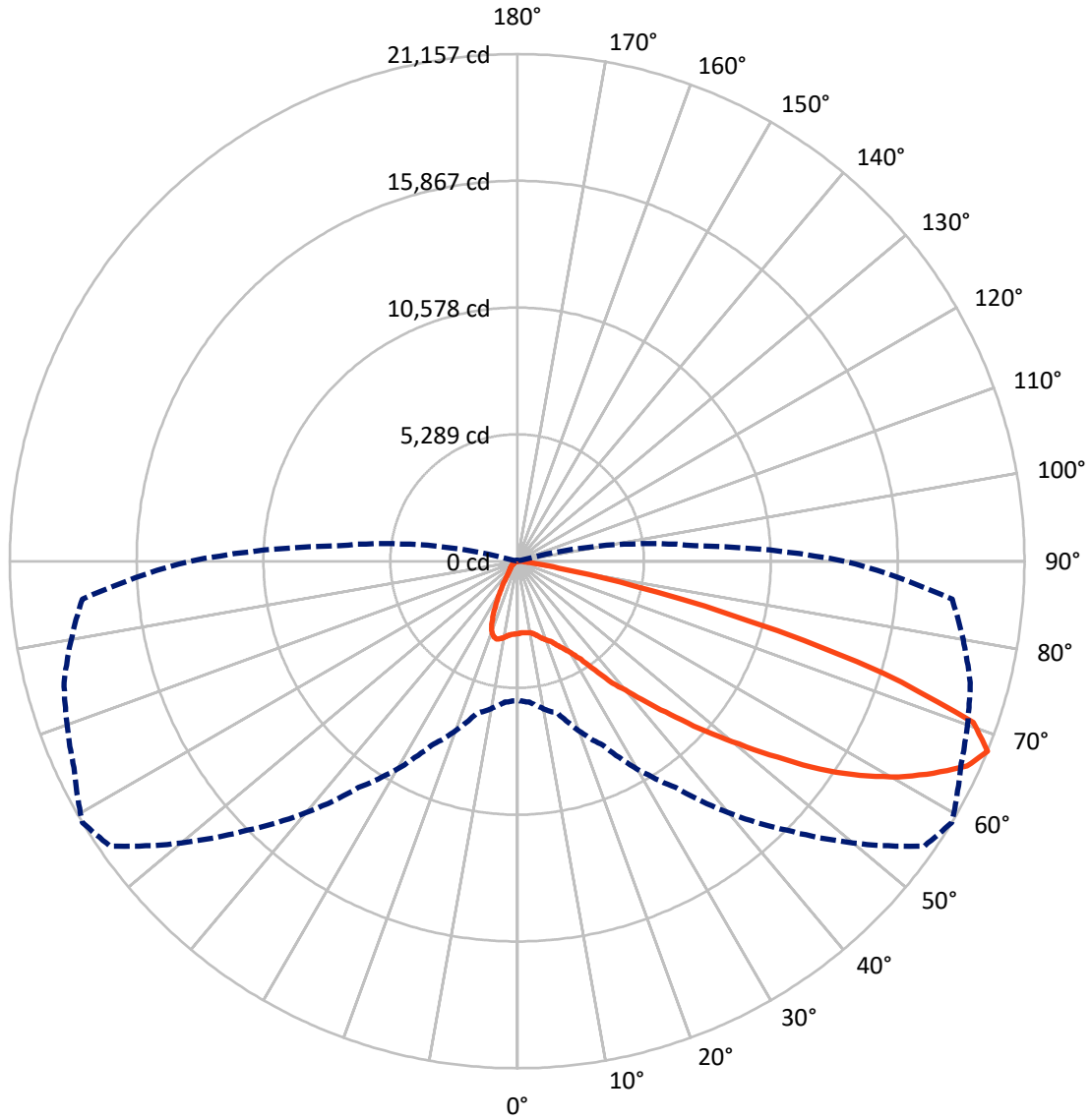
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	3246.2	0.0	3246.2
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	24389.0	0.0	24389.0
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	27635.3	0.0	27635.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.9	1.0
10°-20°	831.7	3.0
20°-30°	1453.6	5.3
30°-40°	2559.2	9.3
40°-50°	4523.9	16.4
50°-60°	7162.9	25.9
60°-70°	7945.6	28.8
70°-80°	2757.0	10.0
80°-90°	113.5	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°	27635.3	100.0
0°-180°	27635.3	100.0

**Coefficient of Utilization**

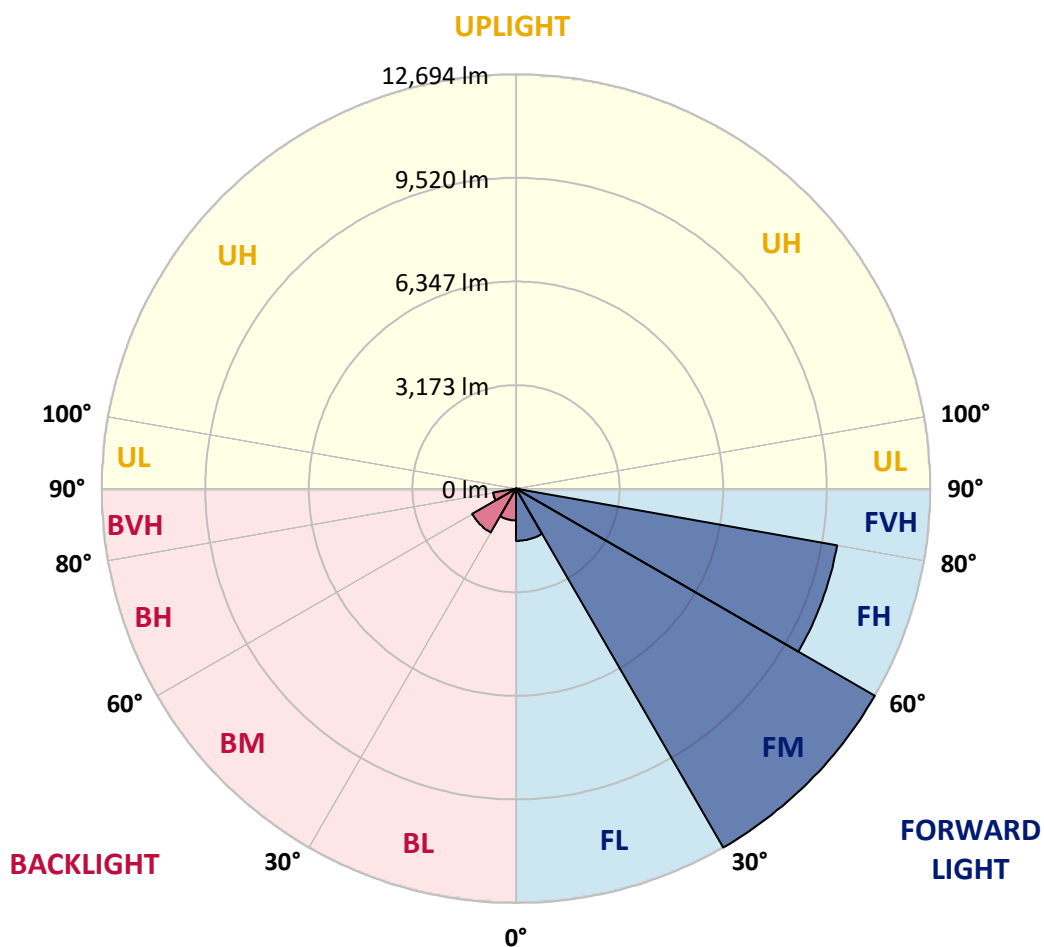


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1600.3	5.8			
FM (30°-60°)	12693.9	45.9			
FH (60°-80°)	9988.7	36.1			G4/12000
FVH (80°-90°)	106.2	0.4			G2/225
BL (0°-30°)	972.9	3.5	B2/1000		
BM (30°-60°)	1552.1	5.6	B2/2500		
BH (60°-80°)	713.9	2.6	B2/1000		G2/1000
BVH (80°-90°)	7.3	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-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3031.1	3031.1	3031.1	3031.1	3031.1	3031.1	3031.1	3031.1	3031.1	3031.1	3031.1
2.5°	2943.3	2901.3	2939.5	2943.3	2947.1	2981.5	3019.6	2992.9	2989.1	3019.6	3046.4
5°	2824.9	2805.9	2851.7	2874.6	2912.8	2943.3	3004.4	3008.2	3012.0	3046.4	3092.2
7.5°	2775.3	2729.5	2783.0	2809.7	2836.4	2908.9	2981.5	3019.6	3073.1	3115.1	3160.9
10°	2676.1	2710.4	2725.7	2771.5	2847.9	2931.8	3019.6	3038.7	3157.1	3191.4	3302.1
12.5°	2710.4	2733.3	2763.9	2775.3	2859.3	2985.3	3103.6	3111.3	3233.4	3382.3	3439.6
15°	2798.2	2783.0	2794.4	2809.7	2908.9	3012.0	3202.9	3237.2	3351.8	3519.7	3661.0
17.5°	2985.3	2958.6	2939.5	2935.7	2958.6	3054.0	3279.2	3382.3	3489.2	3718.2	3790.8
20°	3454.8	3431.9	3355.6	3157.1	3088.4	3126.5	3370.9	3515.9	3664.8	3920.6	4038.9
22.5°	4168.7	4191.6	4012.2	3733.5	3447.2	3298.3	3515.9	3641.9	3878.6	4203.1	4310.0
25°	5012.4	4966.6	4749.0	4424.5	3974.0	3622.8	3748.8	3890.0	4180.2	4447.4	4489.4
27.5°	5672.8	5619.4	5451.4	5058.2	4668.8	4100.0	4054.2	4142.0	4485.6	4726.1	4680.3
30°	6325.6	6344.7	6230.2	5764.4	5283.4	4684.1	4393.9	4432.1	4695.5	5004.7	4901.7
32.5°	7157.8	7112.0	7047.1	6638.6	6069.8	5428.5	4932.2	4871.1	4985.7	5394.1	5272.0
35°	7932.8	7906.0	7818.2	7405.9	6909.7	6211.1	5726.2	5588.8	5562.1	6016.4	5802.6
37.5°	8608.5	8562.6	8429.0	8165.6	7684.6	7096.7	6566.1	6443.9	6440.1	6753.2	6340.9
40°	9177.3	9211.6	9196.4	8906.2	8642.8	8173.3	7360.1	7165.4	7150.2	7318.1	7077.6
42.5°	9914.0	9994.2	9952.2	9895.0	9578.1	9394.9	8474.8	8177.1	8043.5	8387.0	8169.4
45°	11028.8	11059.3	11086.0	10944.8	10627.9	10666.1	9627.7	9272.7	9238.3	9749.9	9261.2
47.5°	12070.9	11990.8	12177.8	12185.5	12170.2	11994.6	10872.2	10608.8	10654.6	11044.0	10540.1
50°	12330.5	12536.7	13052.0	13147.5	13395.6	13555.9	12254.2	11990.8	12067.1	12509.9	11933.5
52.5°	12532.8	12845.9	13361.2	14059.8	14727.9	15109.7	13800.3	13586.5	13582.7	13853.7	13059.7
55°	12887.9	13078.7	13525.4	14487.4	15758.6	16384.7	15663.2	15319.6	15010.4	15201.3	14227.8
57.5°	12853.5	12926.0	13620.8	14808.1	16575.6	17713.2	17194.0	16865.7	16468.7	16358.0	15571.6
60°	12250.4	12422.1	13200.9	14590.5	17079.5	18747.7	18621.8	18285.8	17602.5	17342.9	16602.3
62.5°	11055.5	11284.5	11895.3	13827.0	16346.5	18801.2	19606.7	19480.7	18717.2	18251.5	17946.1
65°	8959.7	9066.6	9769.0	11887.7	14689.7	17980.4	20771.0	20614.5	19912.1	19217.3	18637.0
67.5°	5802.6	5905.7	6581.4	8486.3	11536.5	15861.7	20725.2	21156.6	20396.9	19560.9	18205.6
70°	2741.0	2714.2	3344.1	4714.6	7390.7	12112.9	19324.2	20175.5	19530.3	17732.3	15121.1
72.5°	836.0	908.6	1389.6	2088.2	3794.6	7554.8	15147.8	15945.7	15743.4	14166.7	10093.5
75°	370.3	400.8	545.9	855.1	1538.5	3099.8	9356.7	10066.7	9978.9	8356.5	4607.7
77.5°	236.7	259.6	343.6	488.6	698.6	984.9	4310.0	5000.9	4848.2	2935.7	1206.3
80°	168.0	179.4	244.3	335.9	439.0	404.7	1485.0	1763.7	1691.2	797.9	324.5
82.5°	91.6	99.3	179.4	248.1	293.9	206.1	416.1	519.2	542.1	355.0	156.5
85°	34.4	42.0	110.7	175.6	152.7	95.4	122.2	148.9	194.7	194.7	72.5
87.5°	0.0	3.8	45.8	76.3	38.2	26.7	34.4	42.0	53.4	91.6	26.7
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°	3031.1	3031.1	3031.1	3031.1	3031.1	3031.1	3031.1	3031.1	3031.1	3031.1	3031.1
2.5°	3065.5	3038.7	3050.2	3069.3	3027.3	3050.2	3004.4	3038.7	3050.2	3004.4	3027.3
5°	3103.6	3130.3	3115.1	3084.5	3057.8	3065.5	3054.0	3027.3	3050.2	3057.8	3042.5
7.5°	3214.3	3183.8	3191.4	3157.1	3103.6	3099.8	3027.3	3008.2	3015.8	3023.5	2996.7
10°	3317.4	3336.5	3298.3	3271.6	3183.8	3126.5	3027.3	2920.4	2908.9	2863.1	2901.3
12.5°	3500.6	3454.8	3439.6	3351.8	3264.0	3073.1	2859.3	2695.2	2557.7	2508.1	2458.5
15°	3653.3	3645.7	3619.0	3485.4	3283.0	2935.7	2531.0	2149.3	1885.8	1721.7	1698.8
17.5°	3863.3	3829.0	3779.3	3569.4	3141.8	2576.8	1885.8	1404.8	1141.4	1038.4	1000.2
20°	4023.6	3996.9	3928.2	3550.3	2886.0	1920.2	1168.2	893.3	828.4	809.3	813.1
22.5°	4256.5	4172.5	4042.7	3454.8	2420.3	1278.9	839.8	797.9	786.4	771.1	775.0
25°	4458.8	4382.5	4111.4	3290.7	1725.5	847.5	778.8	755.9	736.8	717.7	713.9
27.5°	4638.3	4542.8	4184.0	2954.7	1080.4	729.1	721.5	694.8	656.6	626.1	614.6
30°	4813.9	4703.2	4203.1	2324.9	729.1	660.4	641.3	599.3	549.7	507.7	500.1
32.5°	5107.8	4974.2	4176.3	1660.6	629.9	587.9	545.9	496.3	423.7	389.4	381.7
35°	5565.9	5363.6	4142.0	977.3	565.0	519.2	454.3	389.4	335.9	301.6	293.9
37.5°	6092.7	5741.5	4042.7	652.8	519.2	458.1	374.1	309.2	263.4	236.7	229.0
40°	6875.3	6295.1	3661.0	534.4	461.9	389.4	301.6	244.3	210.0	190.9	183.2
42.5°	7738.1	6928.8	3073.1	481.0	408.5	332.1	240.5	198.5	171.8	152.7	152.7
45°	8772.6	7589.2	2370.7	439.0	362.7	274.9	198.5	160.3	137.4	122.2	114.5
47.5°	9925.5	8188.5	1599.5	397.0	305.4	225.2	164.2	122.2	99.3	87.8	87.8
50°	10956.2	8719.2	1019.3	347.4	267.2	187.1	133.6	99.3	80.2	64.9	61.1
52.5°	11891.5	9123.8	702.4	305.4	229.0	152.7	110.7	80.2	61.1	49.6	49.6
55°	12849.7	9330.0	519.2	263.4	198.5	129.8	91.6	72.5	53.4	42.0	38.2
57.5°	13636.1	9417.8	397.0	229.0	168.0	103.1	80.2	61.1	45.8	34.4	30.5
60°	14308.0	9375.8	309.2	190.9	133.6	87.8	68.7	49.6	38.2	26.7	22.9
62.5°	14701.2	9123.8	244.3	164.2	106.9	76.3	57.3	42.0	26.7	19.1	15.3
65°	14708.8	8589.4	190.9	122.2	80.2	64.9	49.6	34.4	19.1	7.6	3.8
67.5°	13655.2	7432.7	152.7	95.4	64.9	49.6	38.2	26.7	7.6	0.0	0.0
70°	10681.4	5623.2	126.0	76.3	53.4	42.0	26.7	15.3	3.8	0.0	0.0
72.5°	6806.6	3367.0	103.1	61.1	45.8	30.5	19.1	11.5	0.0	0.0	0.0
75°	2847.9	1038.4	80.2	53.4	34.4	22.9	15.3	3.8	0.0	0.0	0.0
77.5°	733.0	328.3	64.9	45.8	34.4	19.1	11.5	3.8	0.0	0.0	0.0
80°	217.6	122.2	53.4	38.2	26.7	15.3	7.6	3.8	0.0	0.0	0.0
82.5°	99.3	72.5	45.8	34.4	22.9	15.3	7.6	0.0	0.0	0.0	0.0
85°	38.2	22.9	22.9	19.1	19.1	11.5	3.8	0.0	0.0	0.0	0.0
87.5°	15.3	7.6	7.6	7.6	3.8	3.8	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)