

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: P482356

Luminaire Tested: **IFLD-L-SA7C-727-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482356  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-727-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

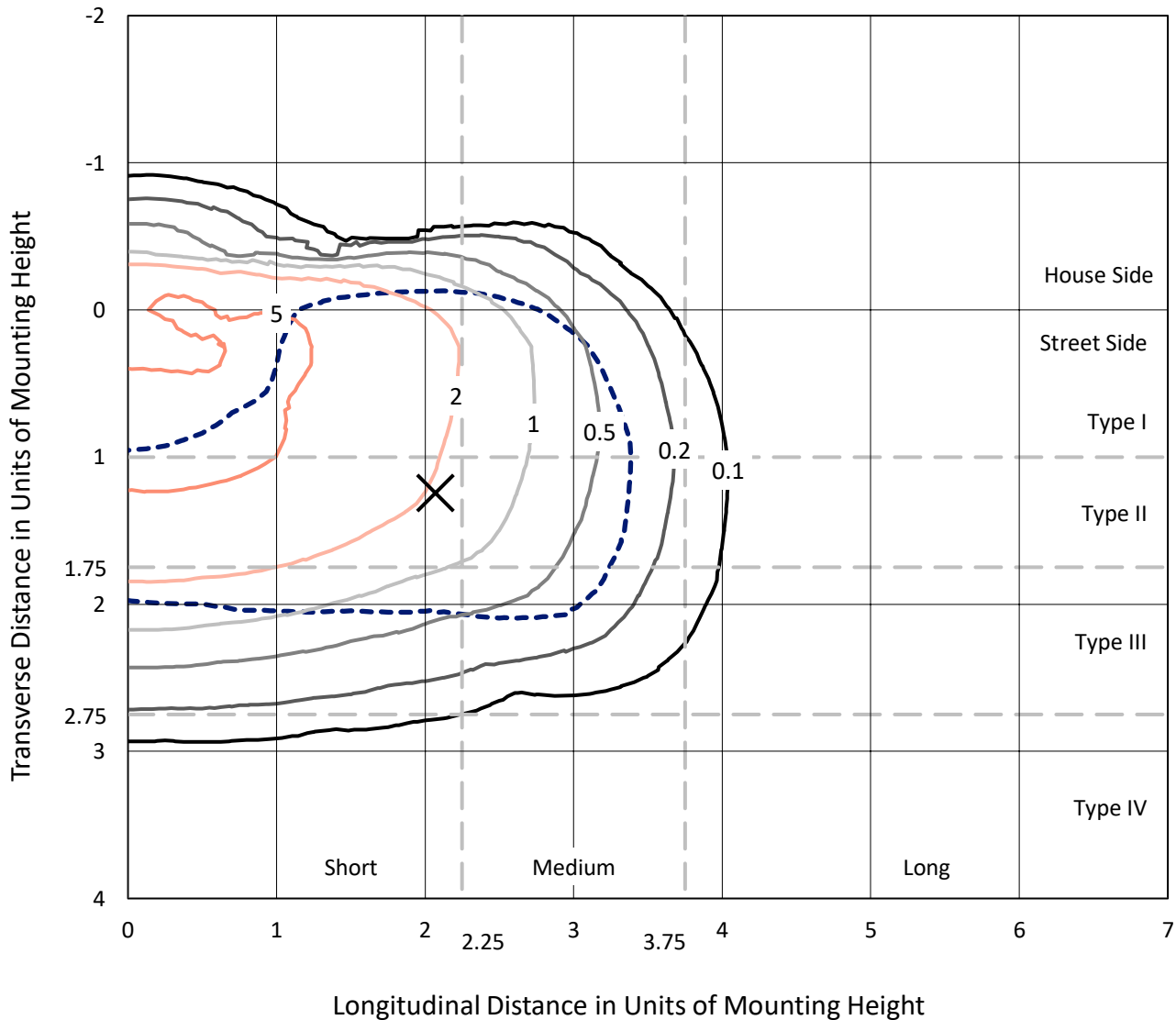
Lumens per Lamp: N/A  
Luminaire Lumens: 27509.7 lumens  
Efficiency: N/A  
Efficacy: 74.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

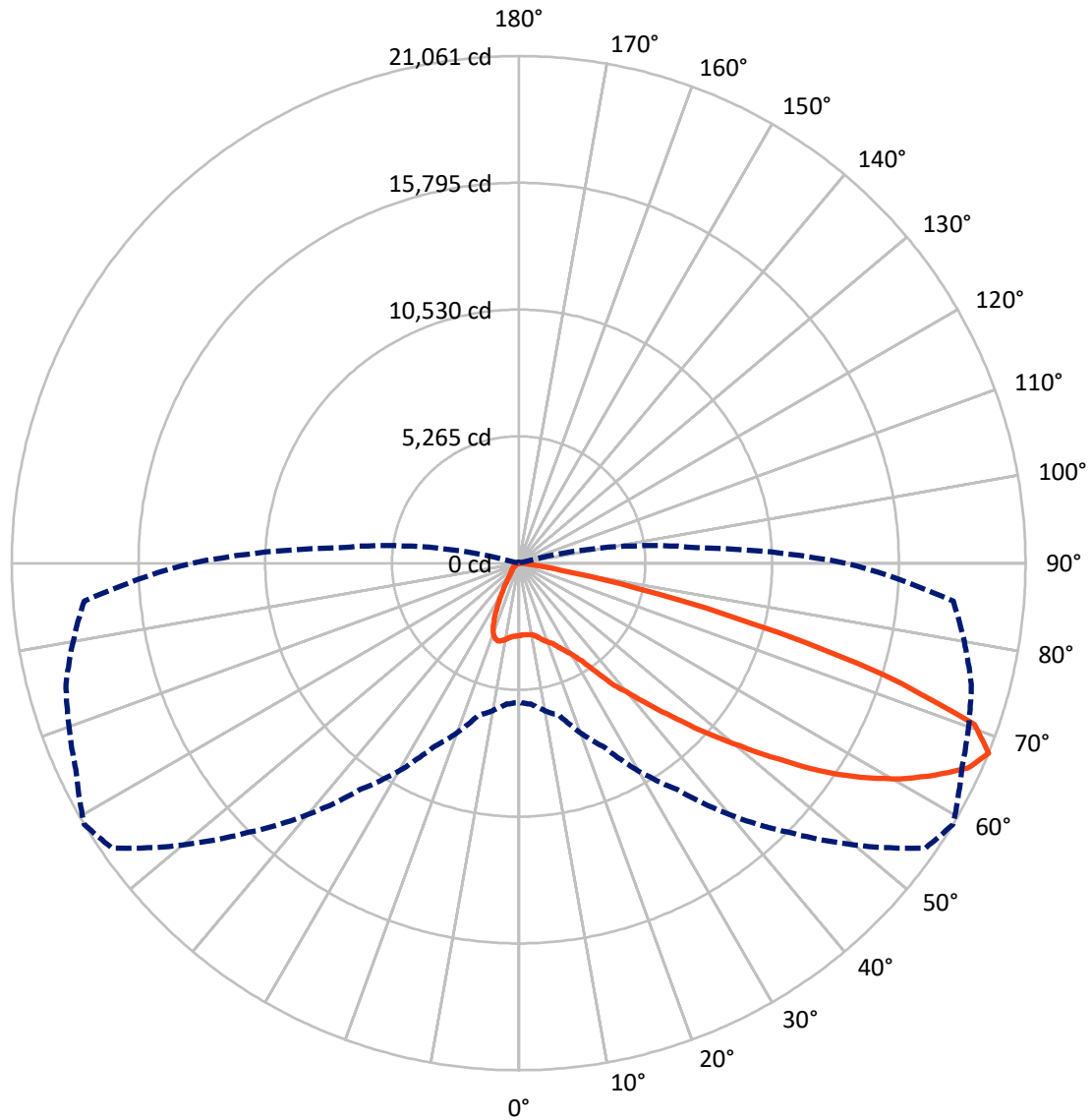
✕ Max cd  
 - - - 1/2 Max cd



Based on 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	3231.5	0.0	3231.5
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	24278.2	0.0	24278.2
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	27509.7	0.0	27509.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.6	1.0
10°-20°	827.9	3.0
20°-30°	1447.0	5.3
30°-40°	2547.6	9.3
40°-50°	4503.3	16.4
50°-60°	7130.4	25.9
60°-70°	7909.5	28.8
70°-80°	2744.4	10.0
80°-90°	113.0	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°	27509.7	100.0
0°-180°	27509.7	100.0

**Coefficient of Utilization**

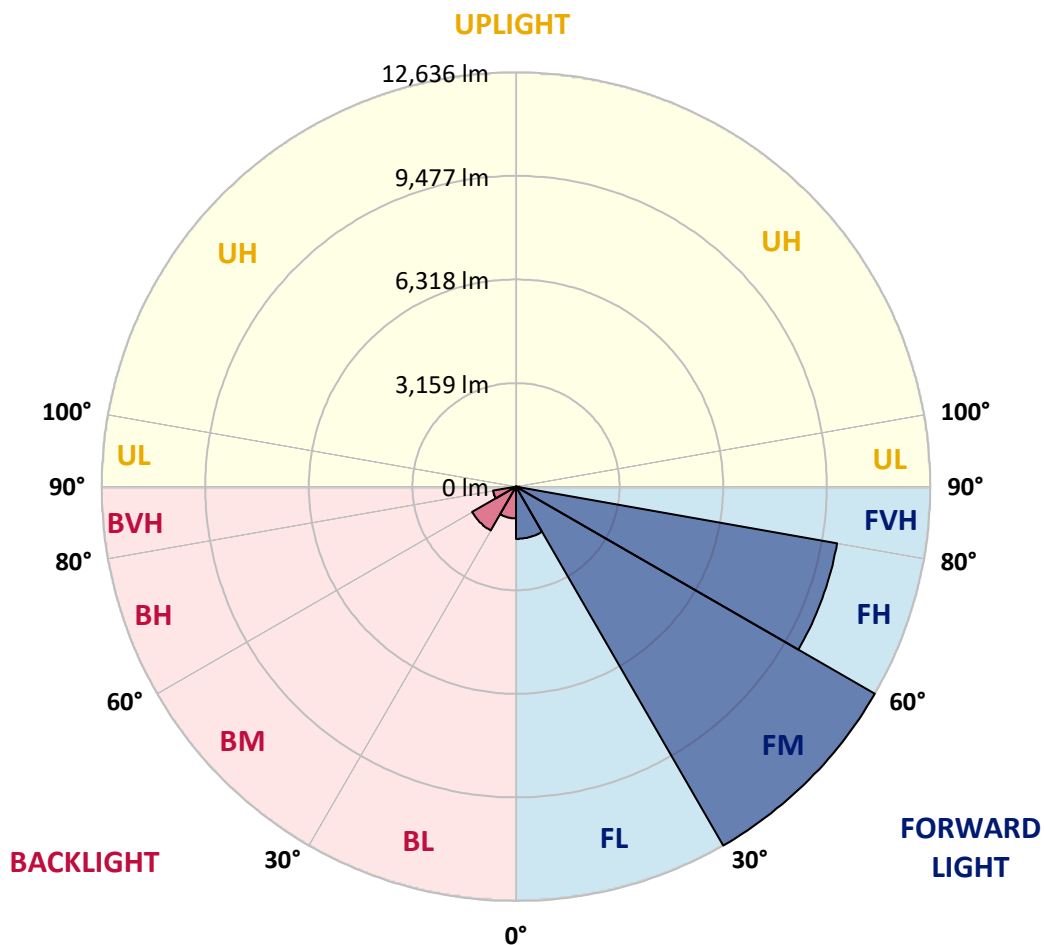


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1593.0	5.8			
FM (30°-60°)	12636.2	45.9			
FH (60°-80°)	9943.3	36.1			G4/12000
FVH (80°-90°)	105.7	0.4			G2/225
BL (0°-30°)	968.5	3.5	B2/1000		
BM (30°-60°)	1545.0	5.6	B2/2500		
BH (60°-80°)	710.7	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°	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3
2.5°	2929.9	2888.1	2926.1	2929.9	2933.7	2967.9	3005.9	2979.3	2975.5	3005.9	3032.5
5°	2812.1	2793.1	2838.7	2861.5	2899.5	2929.9	2990.7	2994.5	2998.3	3032.5	3078.1
7.5°	2762.7	2717.1	2770.3	2796.9	2823.5	2895.7	2967.9	3005.9	3059.1	3100.9	3146.5
10°	2663.9	2698.1	2713.3	2758.9	2834.9	2918.5	3005.9	3024.9	3142.7	3176.9	3287.1
12.5°	2698.1	2720.9	2751.3	2762.7	2846.3	2971.7	3089.5	3097.1	3218.7	3366.9	3423.9
15°	2785.5	2770.3	2781.7	2796.9	2895.7	2998.3	3188.3	3222.5	3336.5	3503.7	3644.3
17.5°	2971.7	2945.1	2926.1	2922.3	2945.1	3040.1	3264.3	3366.9	3473.3	3701.4	3773.6
20°	3439.1	3416.3	3340.3	3142.7	3074.3	3112.3	3355.5	3499.9	3648.1	3902.8	4020.6
22.5°	4149.8	4172.6	3994.0	3716.6	3431.5	3283.3	3499.9	3625.3	3861.0	4184.0	4290.4
25°	4989.6	4944.0	4727.4	4404.4	3956.0	3606.3	3731.8	3872.4	4161.2	4427.2	4469.0
27.5°	5647.0	5593.8	5426.6	5035.2	4647.6	4081.4	4035.8	4123.2	4465.2	4704.6	4659.0
30°	6296.9	6315.9	6201.9	5738.2	5259.4	4662.8	4374.0	4412.0	4674.2	4982.0	4879.4
32.5°	7125.3	7079.7	7015.1	6608.5	6042.2	5403.8	4909.8	4849.0	4963.0	5369.6	5248.0
35°	7896.7	7870.1	7782.7	7372.3	6878.3	6182.9	5700.2	5563.4	5536.8	5989.0	5776.2
37.5°	8569.3	8523.7	8390.7	8128.5	7649.7	7064.5	6536.3	6414.7	6410.9	6722.5	6312.1
40°	9135.6	9169.8	9154.6	8865.8	8603.6	8136.1	7326.7	7132.9	7117.7	7284.9	7045.5
42.5°	9869.0	9948.8	9907.0	9850.0	9534.6	9352.2	8436.3	8139.9	8006.9	8348.9	8132.3
45°	10978.6	11009.0	11035.7	10895.0	10579.6	10617.6	9584.0	9230.6	9196.4	9705.6	9219.2
47.5°	12016.1	11936.3	12122.5	12130.1	12114.9	11940.1	10822.8	10560.6	10606.2	10993.8	10492.2
50°	12274.5	12479.7	12992.7	13087.7	13334.7	13494.4	12198.5	11936.3	12012.3	12453.1	11879.3
52.5°	12475.9	12787.5	13300.5	13996.0	14661.0	15041.0	13737.6	13524.8	13521.0	13790.8	13000.3
55°	12829.3	13019.3	13463.9	14421.6	15687.0	16310.3	15592.0	15250.0	14942.2	15132.2	14163.2
57.5°	12795.1	12867.3	13559.0	14740.8	16500.3	17632.7	17115.9	16789.1	16393.9	16283.7	15500.8
60°	12194.7	12365.7	13140.9	14524.2	17001.9	18662.6	18537.2	18202.7	17522.5	17264.1	16526.9
62.5°	11005.2	11233.3	11841.3	13764.2	16272.3	18715.8	19517.6	19392.2	18632.2	18168.5	17864.5
65°	8919.0	9025.4	9724.6	11833.7	14623.0	17898.7	20676.6	20520.8	19821.6	19130.0	18552.4
67.5°	5776.2	5878.8	6551.5	8447.7	11484.1	15789.6	20631.0	21060.5	20304.2	19472.0	18122.9
70°	2728.5	2701.9	3328.9	4693.2	7357.1	12057.9	19236.4	20083.8	19441.6	17651.7	15052.4
72.5°	832.2	904.4	1383.3	2078.7	3777.4	7520.5	15079.0	15873.2	15671.8	14102.4	10047.6
75°	368.6	399.0	543.4	851.2	1531.5	3085.7	9314.2	10021.0	9933.6	8318.5	4586.8
77.5°	235.6	258.4	342.0	486.4	695.4	980.4	4290.4	4978.2	4826.2	2922.3	1200.8
80°	167.2	178.6	243.2	334.4	437.0	402.8	1478.3	1755.7	1683.5	794.2	323.0
82.5°	91.2	98.8	178.6	247.0	292.6	205.2	414.2	516.8	539.6	353.4	155.8
85°	34.2	41.8	110.2	174.8	152.0	95.0	121.6	148.2	193.8	193.8	72.2
87.5°	0.0	3.8	45.6	76.0	38.0	26.6	34.2	41.8	53.2	91.2	26.6
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°	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3	3017.3
2.5°	3051.5	3024.9	3036.3	3055.3	3013.5	3036.3	2990.7	3024.9	3036.3	2990.7	3013.5
5°	3089.5	3116.1	3100.9	3070.5	3043.9	3051.5	3040.1	3013.5	3036.3	3043.9	3028.7
7.5°	3199.7	3169.3	3176.9	3142.7	3089.5	3085.7	3013.5	2994.5	3002.1	3009.7	2983.1
10°	3302.3	3321.3	3283.3	3256.7	3169.3	3112.3	3013.5	2907.1	2895.7	2850.1	2888.1
12.5°	3484.7	3439.1	3423.9	3336.5	3249.1	3059.1	2846.3	2682.9	2546.1	2496.7	2447.3
15°	3636.7	3629.1	3602.5	3469.5	3268.1	2922.3	2519.5	2139.5	1877.3	1713.9	1691.1
17.5°	3845.8	3811.6	3762.2	3553.1	3127.5	2565.1	1877.3	1398.5	1136.2	1033.6	995.6
20°	4005.4	3978.8	3910.4	3534.1	2872.9	1911.5	1162.8	889.2	824.6	805.6	809.4
22.5°	4237.2	4153.6	4024.4	3439.1	2409.3	1273.1	836.0	794.2	782.8	767.6	771.4
25°	4438.6	4362.6	4092.8	3275.7	1717.7	843.6	775.2	752.4	733.4	714.4	710.6
27.5°	4617.2	4522.2	4165.0	2941.3	1075.4	725.8	718.2	691.6	653.6	623.2	611.8
30°	4792.0	4681.8	4184.0	2314.3	725.8	657.4	638.4	596.6	547.2	505.4	497.8
32.5°	5084.6	4951.6	4157.4	1653.1	627.0	585.2	543.4	494.0	421.8	387.6	380.0
35°	5540.6	5339.2	4123.2	972.8	562.4	516.8	452.2	387.6	334.4	300.2	292.6
37.5°	6065.0	5715.4	4024.4	649.8	516.8	456.0	372.4	307.8	262.2	235.6	228.0
40°	6844.1	6266.5	3644.3	532.0	459.8	387.6	300.2	243.2	209.0	190.0	182.4
42.5°	7702.9	6897.3	3059.1	478.8	406.6	330.6	239.4	197.6	171.0	152.0	152.0
45°	8732.8	7554.7	2359.9	437.0	361.0	273.6	197.6	159.6	136.8	121.6	114.0
47.5°	9880.4	8151.3	1592.3	395.2	304.0	224.2	163.4	121.6	98.8	87.4	87.4
50°	10906.4	8679.6	1014.6	345.8	266.0	186.2	133.0	98.8	79.8	64.6	60.8
52.5°	11837.5	9082.4	699.2	304.0	228.0	152.0	110.2	79.8	60.8	49.4	49.4
55°	12791.3	9287.6	516.8	262.2	197.6	129.2	91.2	72.2	53.2	41.8	38.0
57.5°	13574.2	9375.0	395.2	228.0	167.2	102.6	79.8	60.8	45.6	34.2	30.4
60°	14243.0	9333.2	307.8	190.0	133.0	87.4	68.4	49.4	38.0	26.6	22.8
62.5°	14634.4	9082.4	243.2	163.4	106.4	76.0	57.0	41.8	26.6	19.0	15.2
65°	14642.0	8550.3	190.0	121.6	79.8	64.6	49.4	34.2	19.0	7.6	3.8
67.5°	13593.2	7398.9	152.0	95.0	64.6	49.4	38.0	26.6	7.6	0.0	0.0
70°	10632.8	5597.6	125.4	76.0	53.2	41.8	26.6	15.2	3.8	0.0	0.0
72.5°	6775.7	3351.7	102.6	60.8	45.6	30.4	19.0	11.4	0.0	0.0	0.0
75°	2834.9	1033.6	79.8	53.2	34.2	22.8	15.2	3.8	0.0	0.0	0.0
77.5°	729.6	326.8	64.6	45.6	34.2	19.0	11.4	3.8	0.0	0.0	0.0
80°	216.6	121.6	53.2	38.0	26.6	15.2	7.6	3.8	0.0	0.0	0.0
82.5°	98.8	72.2	45.6	34.2	22.8	15.2	7.6	0.0	0.0	0.0	0.0
85°	38.0	22.8	22.8	19.0	19.0	11.4	3.8	0.0	0.0	0.0	0.0
87.5°	15.2	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)