

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: P482395

Luminaire Tested: **IFLD-L-SA7C-730-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482395  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-730-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

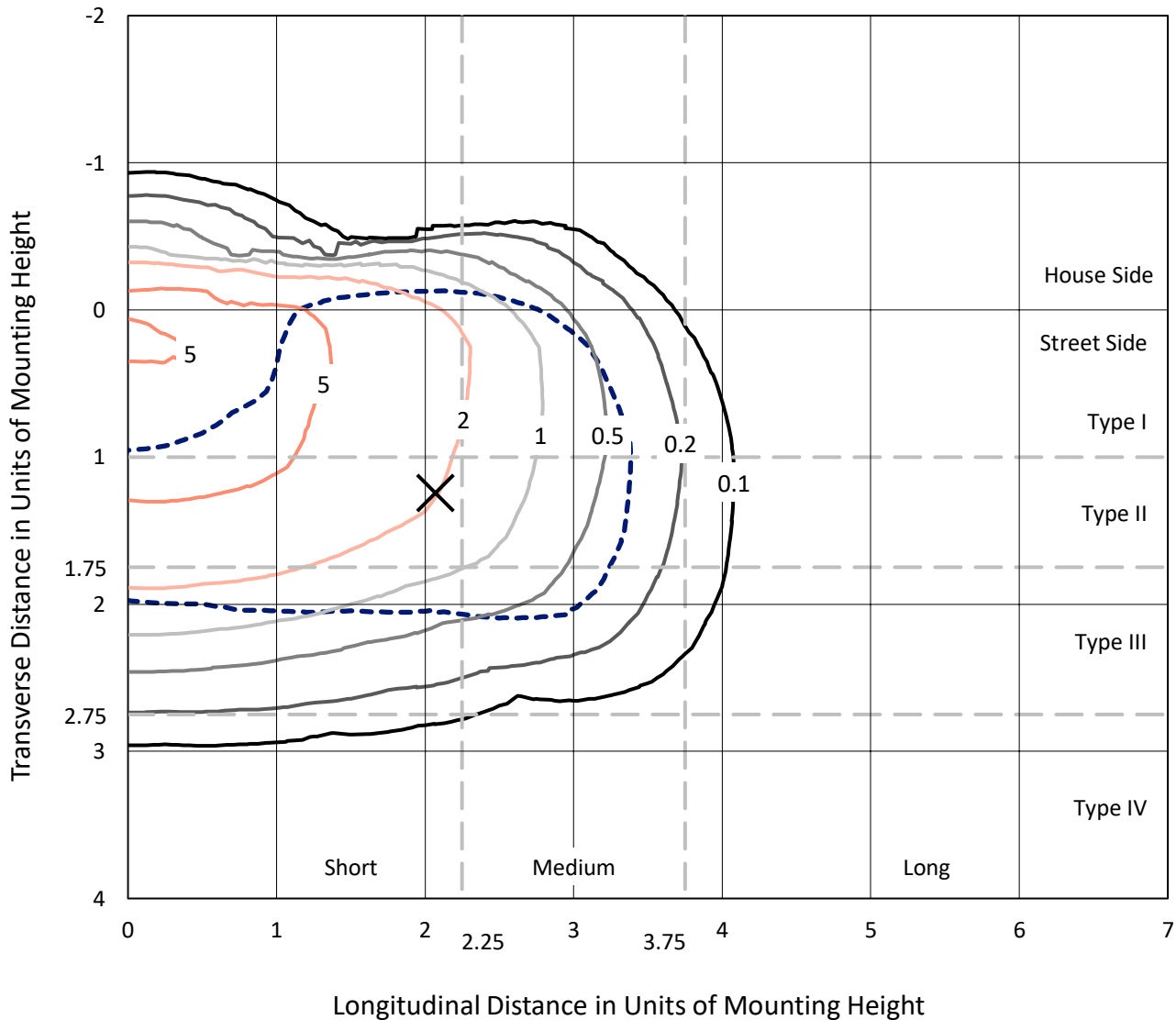
Lumens per Lamp: N/A  
Luminaire Lumens: 29953.8 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

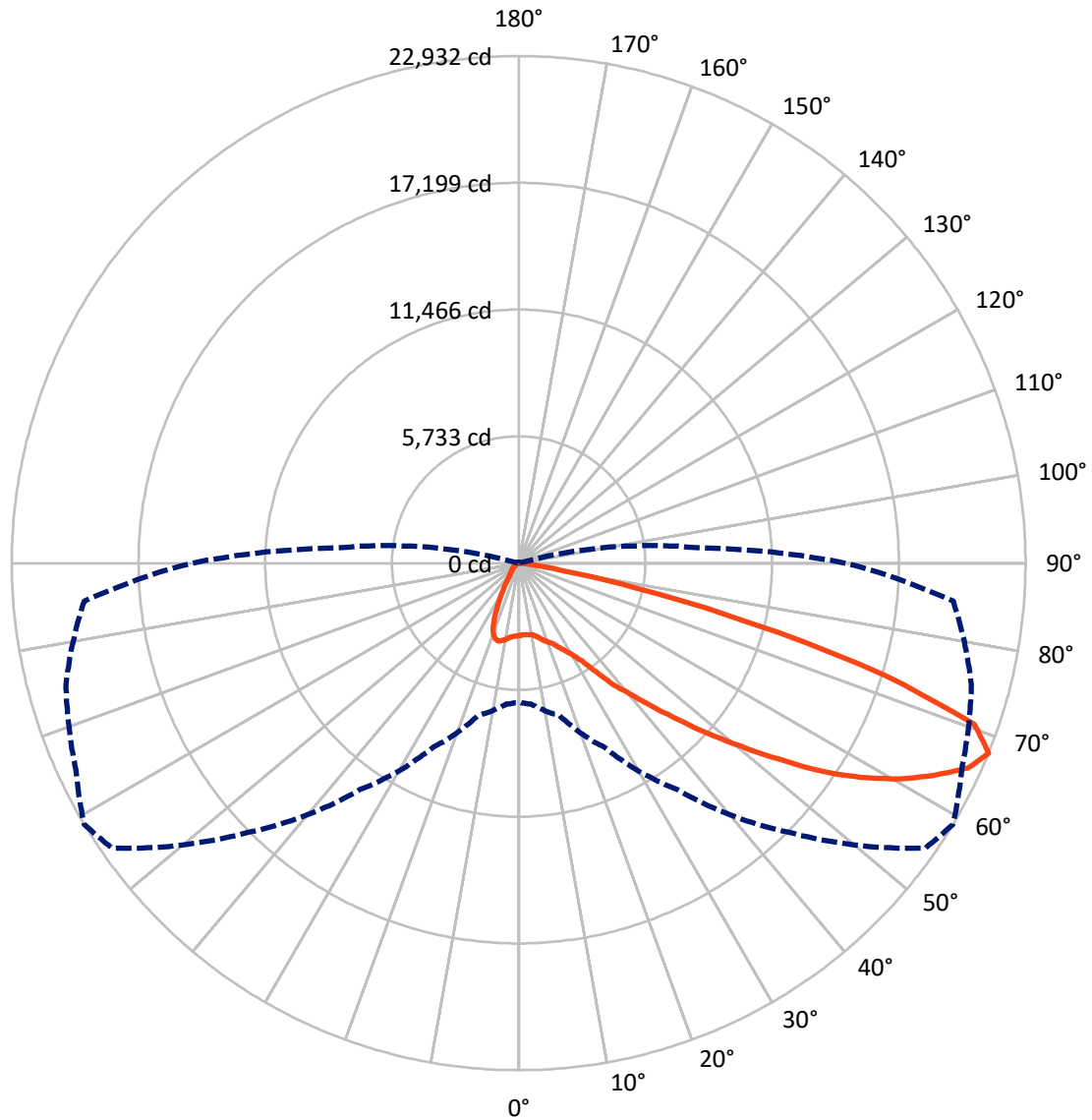
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	3518.6	0.0	3518.6
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	26435.2	0.0	26435.2
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	29953.8	0.0	29953.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.1	1.0
10°-20°	901.5	3.0
20°-30°	1575.5	5.3
30°-40°	2773.9	9.3
40°-50°	4903.4	16.4
50°-60°	7763.8	25.9
60°-70°	8612.2	28.8
70°-80°	2988.2	10.0
80°-90°	123.1	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°	29953.8	100.0
0°-180°	29953.8	100.0

**Coefficient of Utilization**

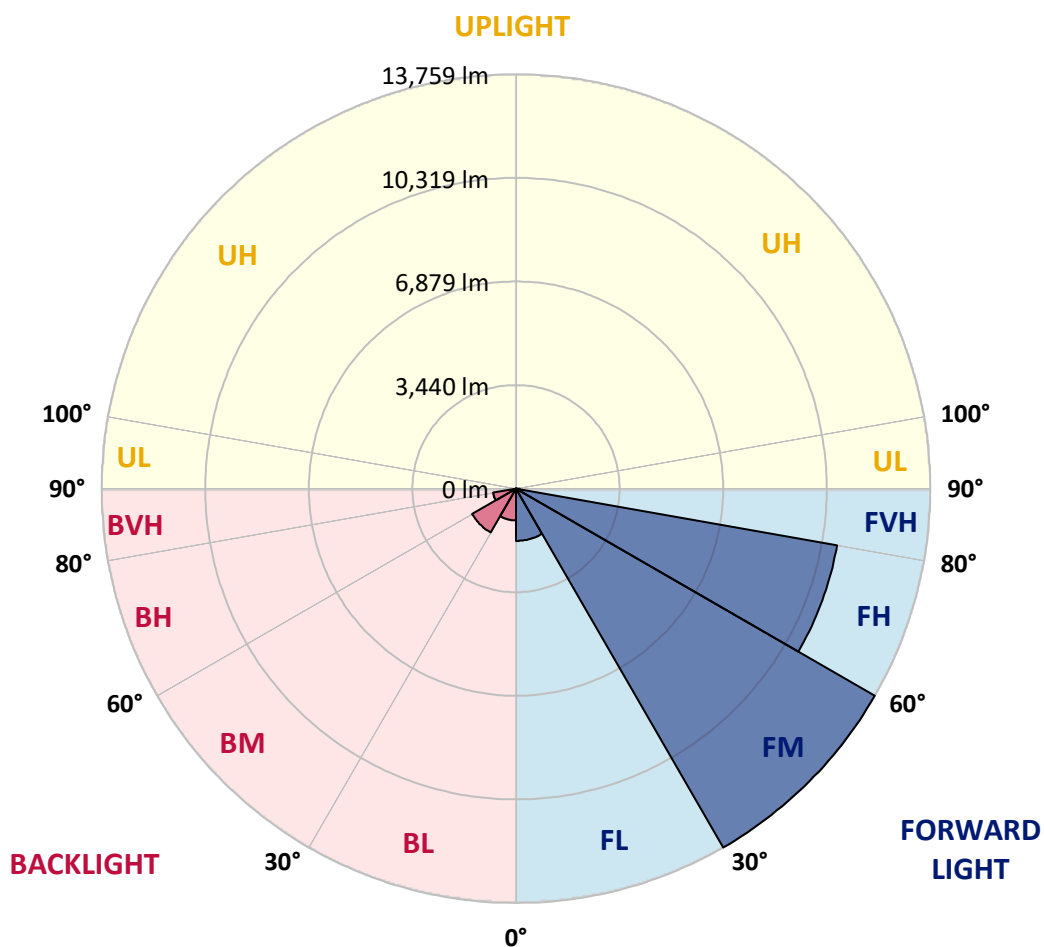


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1734.5	5.8			
FM (30°-60°)	13758.9	45.9			
FH (60°-80°)	10826.7	36.1			G4/12000
FVH (80°-90°)	115.1	0.4			G2/225
BL (0°-30°)	1054.5	3.5	B3/2500		
BM (30°-60°)	1682.3	5.6	B2/2500		
BH (60°-80°)	773.8	2.6	B2/1000		G2/1000
BVH (80°-90°)	8.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4
2.5°	3190.2	3144.7	3186.1	3190.2	3194.4	3231.6	3273.0	3244.0	3239.9	3273.0	3301.9
5°	3062.0	3041.3	3090.9	3115.7	3157.1	3190.2	3256.4	3260.6	3264.7	3301.9	3351.6
7.5°	3008.2	2958.5	3016.4	3045.4	3074.4	3153.0	3231.6	3273.0	3330.9	3376.4	3426.1
10°	2900.6	2937.8	2954.4	3004.0	3086.8	3177.8	3273.0	3293.7	3421.9	3459.2	3579.2
12.5°	2937.8	2962.6	2995.7	3008.2	3099.2	3235.7	3364.0	3372.3	3504.7	3666.1	3728.1
15°	3033.0	3016.4	3028.9	3045.4	3153.0	3264.7	3471.6	3508.8	3633.0	3815.0	3968.1
17.5°	3235.7	3206.8	3186.1	3181.9	3206.8	3310.2	3554.3	3666.1	3781.9	4030.2	4108.8
20°	3744.7	3719.9	3637.1	3421.9	3347.5	3388.8	3653.7	3810.9	3972.3	4249.5	4377.8
22.5°	4518.5	4543.3	4348.8	4046.7	3736.4	3575.0	3810.9	3947.4	4204.0	4555.7	4671.5
25°	5432.9	5383.2	5147.4	4795.7	4307.4	3926.7	4063.3	4216.4	4530.9	4820.5	4866.0
27.5°	6148.7	6090.8	5908.7	5482.6	5060.5	4444.0	4394.3	4489.5	4861.9	5122.6	5072.9
30°	6856.3	6877.0	6752.8	6248.0	5726.7	5077.0	4762.6	4804.0	5089.5	5424.6	5312.9
32.5°	7758.3	7708.7	7638.3	7195.6	6579.1	5883.9	5346.0	5279.8	5403.9	5846.7	5714.3
35°	8598.3	8569.3	8474.2	8027.3	7489.4	6732.2	6206.7	6057.7	6028.7	6521.1	6289.4
37.5°	9330.7	9281.0	9136.2	8850.7	8329.3	7692.1	7117.0	6984.6	6980.4	7319.7	6872.8
40°	9947.2	9984.5	9967.9	9653.4	9367.9	8859.0	7977.6	7766.6	7750.1	7932.1	7671.4
42.5°	10745.8	10832.7	10787.2	10725.1	10381.7	10183.1	9185.9	8863.1	8718.3	9090.7	8854.8
45°	11954.0	11987.1	12016.1	11863.0	11519.6	11560.9	10435.5	10050.7	10013.4	10567.9	10038.2
47.5°	13083.6	12996.8	13199.5	13207.8	13191.2	13000.9	11784.4	11498.9	11548.5	11970.6	11424.4
50°	13365.0	13588.5	14147.1	14250.5	14519.5	14693.2	13282.3	12996.8	13079.5	13559.5	12934.7
52.5°	13584.3	13923.6	14482.2	15239.4	15963.5	16377.3	14958.1	14726.3	14722.2	15016.0	14155.3
55°	13969.1	14176.0	14660.1	15702.9	17080.7	17759.3	16977.3	16604.9	16269.7	16476.6	15421.5
57.5°	13931.9	14010.5	14763.6	16050.4	17966.2	19199.3	18636.5	18280.7	17850.4	17730.4	16878.0
60°	13278.1	13464.3	14308.4	15814.6	18512.4	20320.6	20184.1	19819.9	19079.3	18797.9	17995.2
62.5°	11983.0	12231.3	12893.3	14987.0	17718.0	20378.5	21251.6	21115.1	20287.5	19782.7	19451.7
65°	9711.4	9827.2	10588.6	12885.0	15922.2	19488.9	22513.6	22344.0	21582.6	20829.6	20200.6
67.5°	6289.4	6401.1	7133.5	9198.3	12504.4	17192.5	22464.0	22931.5	22108.1	21202.0	19733.0
70°	2970.9	2942.0	3624.7	5110.2	8010.7	13129.2	20945.4	21868.1	21168.9	19220.0	16389.7
72.5°	906.2	984.8	1506.2	2263.4	4112.9	8188.7	16418.7	17283.5	17064.2	15355.3	10940.3
75°	401.4	434.5	591.7	926.9	1667.5	3359.9	10141.7	10911.3	10816.1	9057.6	4994.3
77.5°	256.5	281.4	372.4	529.6	757.2	1067.5	4671.5	5420.5	5255.0	3181.9	1307.5
80°	182.1	194.5	264.8	364.1	475.8	438.6	1609.6	1911.7	1833.0	864.8	351.7
82.5°	99.3	107.6	194.5	269.0	318.6	223.4	451.0	562.7	587.6	384.8	169.6
85°	37.2	45.5	120.0	190.3	165.5	103.4	132.4	161.4	211.0	211.0	78.6
87.5°	0.0	4.1	49.7	82.8	41.4	29.0	37.2	45.5	57.9	99.3	29.0
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°	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4	3285.4
2.5°	3322.6	3293.7	3306.1	3326.8	3281.3	3306.1	3256.4	3293.7	3306.1	3256.4	3281.3
5°	3364.0	3393.0	3376.4	3343.3	3314.4	3322.6	3310.2	3281.3	3306.1	3314.4	3297.8
7.5°	3484.0	3450.9	3459.2	3421.9	3364.0	3359.9	3281.3	3260.6	3268.8	3277.1	3248.2
10°	3595.7	3616.4	3575.0	3546.1	3450.9	3388.8	3281.3	3165.4	3153.0	3103.3	3144.7
12.5°	3794.3	3744.7	3728.1	3633.0	3537.8	3330.9	3099.2	2921.3	2772.3	2718.5	2664.7
15°	3959.9	3951.6	3922.6	3777.8	3558.5	3181.9	2743.3	2329.6	2044.1	1866.1	1841.3
17.5°	4187.4	4150.2	4096.4	3868.8	3405.4	2793.0	2044.1	1522.7	1237.2	1125.5	1084.1
20°	4361.2	4332.3	4257.8	3848.1	3128.2	2081.3	1266.2	968.2	897.9	877.2	881.3
22.5°	4613.6	4522.6	4381.9	3744.7	2623.3	1386.2	910.3	864.8	852.4	835.8	840.0
25°	4832.9	4750.2	4456.4	3566.8	1870.3	918.6	844.1	819.3	798.6	777.9	773.8
27.5°	5027.4	4924.0	4535.0	3202.6	1171.0	790.3	782.0	753.1	711.7	678.6	666.2
30°	5217.7	5097.7	4555.7	2519.9	790.3	715.8	695.1	649.6	595.8	550.3	542.0
32.5°	5536.3	5391.5	4526.7	1799.9	682.7	637.2	591.7	537.9	459.3	422.1	413.8
35°	6032.9	5813.6	4489.5	1059.3	612.4	562.7	492.4	422.1	364.1	326.9	318.6
37.5°	6603.9	6223.2	4381.9	707.6	562.7	496.5	405.5	335.2	285.5	256.5	248.3
40°	7452.1	6823.2	3968.1	579.3	500.7	422.1	326.9	264.8	227.6	206.9	198.6
42.5°	8387.3	7510.1	3330.9	521.4	442.7	360.0	260.7	215.2	186.2	165.5	165.5
45°	9508.6	8225.9	2569.6	475.8	393.1	297.9	215.2	173.8	149.0	132.4	124.1
47.5°	10758.2	8875.5	1733.7	430.3	331.0	244.1	177.9	132.4	107.6	95.2	95.2
50°	11875.4	9450.7	1104.8	376.5	289.6	202.8	144.8	107.6	86.9	70.3	66.2
52.5°	12889.2	9889.3	761.4	331.0	248.3	165.5	120.0	86.9	66.2	53.8	53.8
55°	13927.8	10112.7	562.7	285.5	215.2	140.7	99.3	78.6	57.9	45.5	41.4
57.5°	14780.1	10207.9	430.3	248.3	182.1	111.7	86.9	66.2	49.7	37.2	33.1
60°	15508.4	10162.4	335.2	206.9	144.8	95.2	74.5	53.8	41.4	29.0	24.8
62.5°	15934.6	9889.3	264.8	177.9	115.9	82.8	62.1	45.5	29.0	20.7	16.6
65°	15942.8	9310.0	206.9	132.4	86.9	70.3	53.8	37.2	20.7	8.3	4.1
67.5°	14800.8	8056.2	165.5	103.4	70.3	53.8	41.4	29.0	8.3	0.0	0.0
70°	11577.5	6094.9	136.5	82.8	57.9	45.5	29.0	16.6	4.1	0.0	0.0
72.5°	7377.7	3649.5	111.7	66.2	49.7	33.1	20.7	12.4	0.0	0.0	0.0
75°	3086.8	1125.5	86.9	57.9	37.2	24.8	16.6	4.1	0.0	0.0	0.0
77.5°	794.5	355.8	70.3	49.7	37.2	20.7	12.4	4.1	0.0	0.0	0.0
80°	235.9	132.4	57.9	41.4	29.0	16.6	8.3	4.1	0.0	0.0	0.0
82.5°	107.6	78.6	49.7	37.2	24.8	16.6	8.3	0.0	0.0	0.0	0.0
85°	41.4	24.8	24.8	20.7	20.7	12.4	4.1	0.0	0.0	0.0	0.0
87.5°	16.6	8.3	8.3	8.3	4.1	4.1	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)