

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: P482394

Luminaire Tested: **IFLD-L-SA7B-730-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482394  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-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**

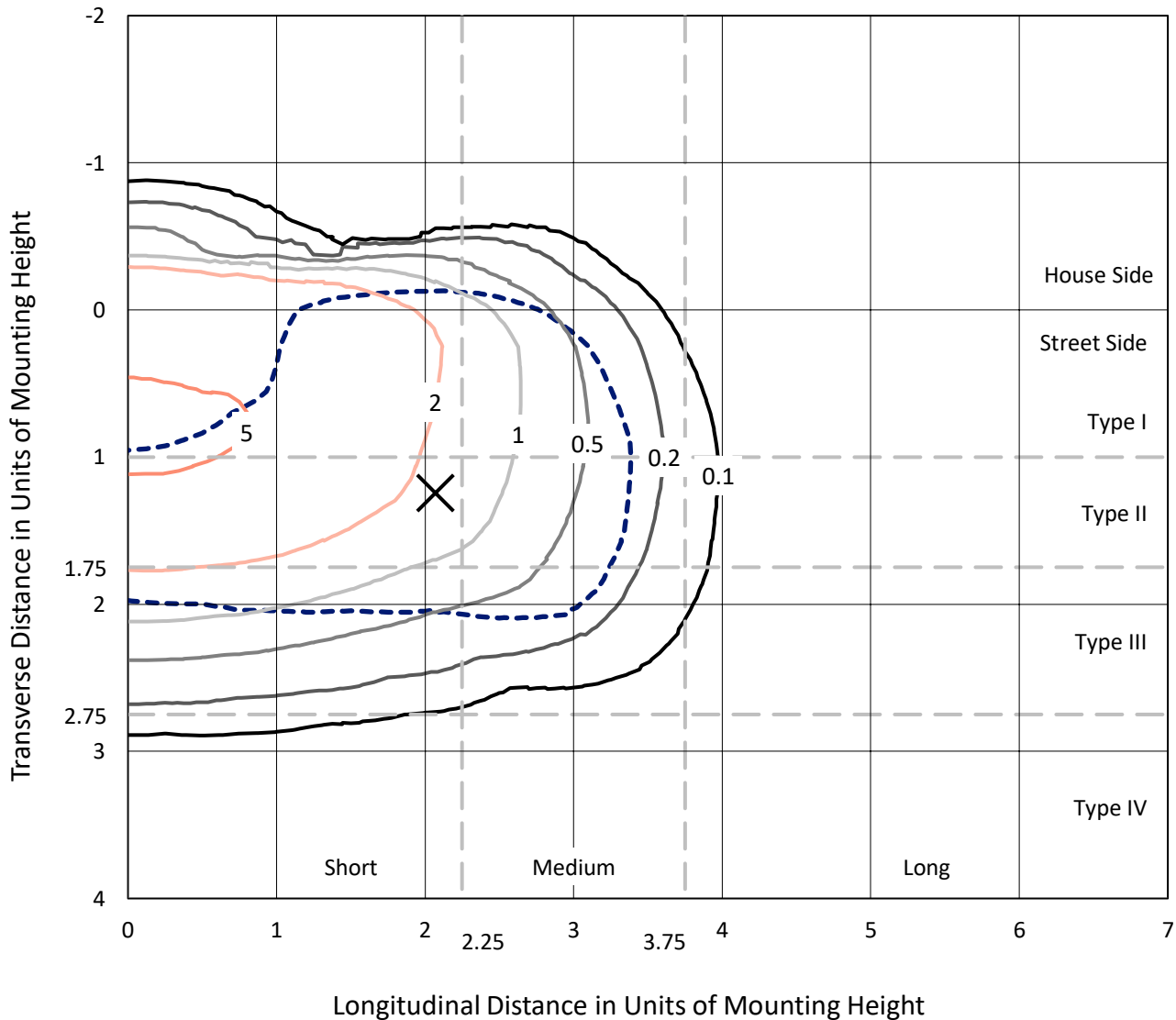
Lumens per Lamp: N/A  
Luminaire Lumens: 24062.6 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 281  
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

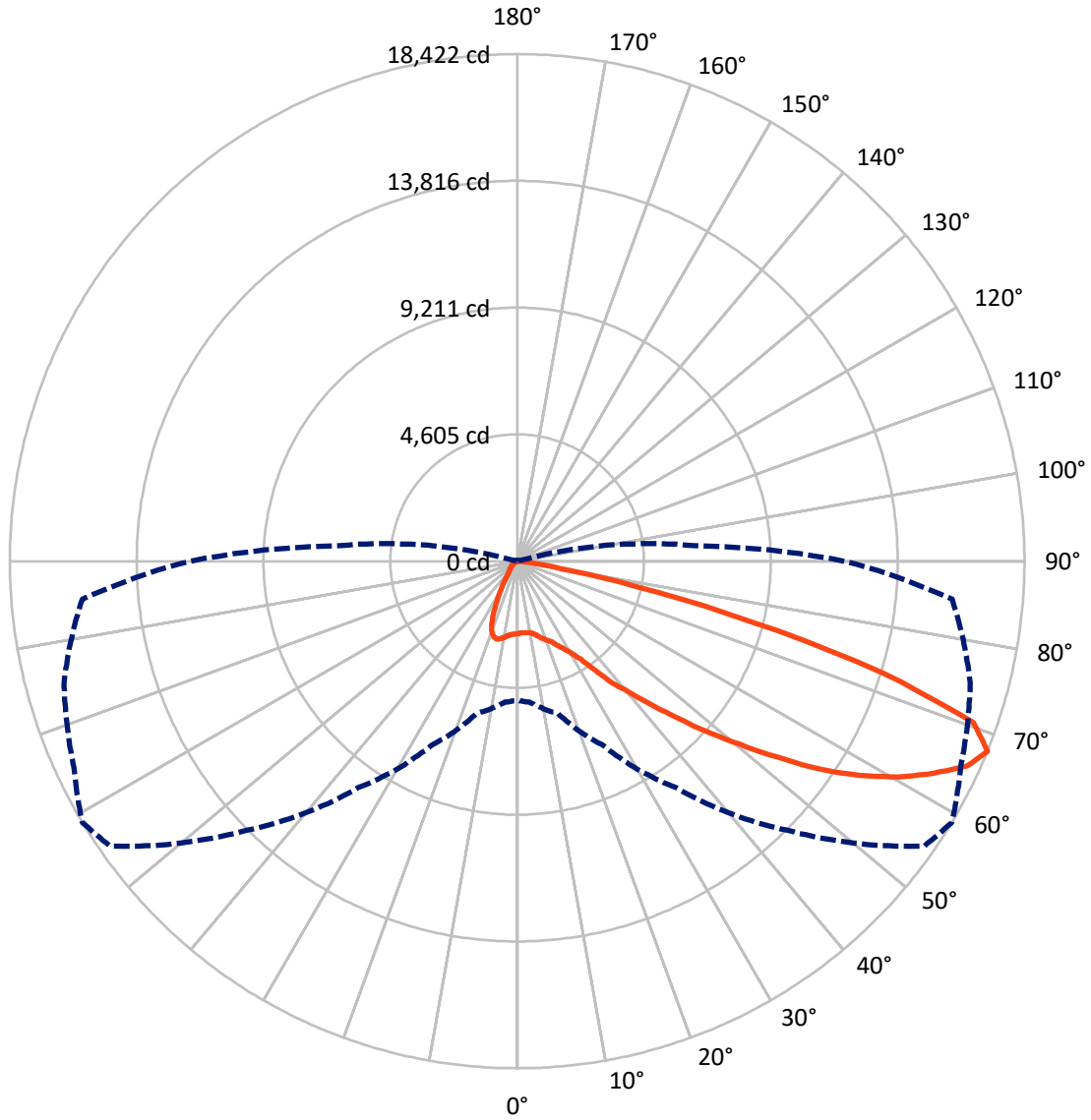
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	2826.6	0.0	2826.6
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	21236.1	0.0	21236.1
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	24062.6	0.0	24062.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.7	1.0
10°-20°	724.2	3.0
20°-30°	1265.7	5.3
30°-40°	2228.4	9.3
40°-50°	3939.0	16.4
50°-60°	6236.9	25.9
60°-70°	6918.4	28.8
70°-80°	2400.5	10.0
80°-90°	98.8	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°	24062.6	100.0
0°-180°	24062.6	100.0

**Coefficient of Utilization**

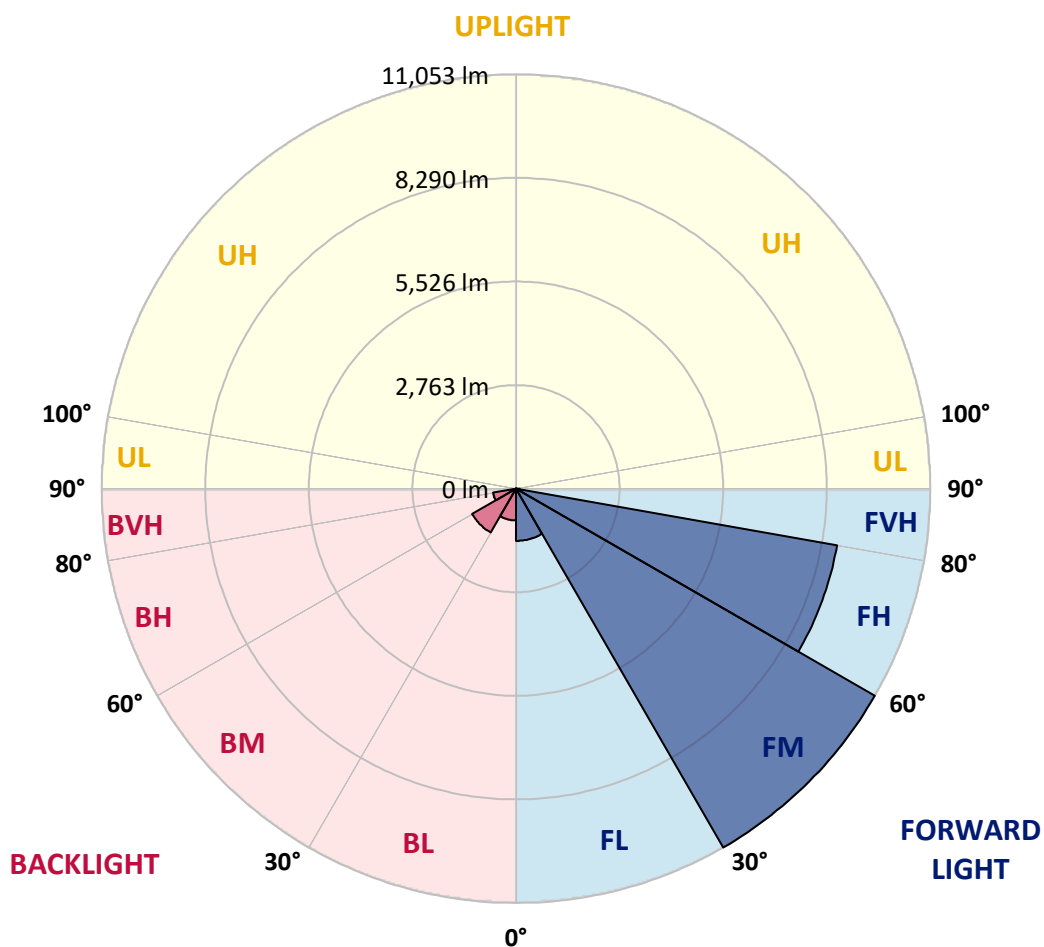


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1393.4	5.8			
FM (30°-60°)	11052.9	45.9			
FH (60°-80°)	8697.3	36.1			G4/12000
FVH (80°-90°)	92.5	0.4			G1/100
BL (0°-30°)	847.1	3.5	B2/1000		
BM (30°-60°)	1351.4	5.6	B2/2500		
BH (60°-80°)	621.6	2.6	B2/1000		G2/1000
BVH (80°-90°)	6.4	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°	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2
2.5°	2562.8	2526.2	2559.5	2562.8	2566.1	2596.0	2629.3	2606.0	2602.7	2629.3	2652.5
5°	2459.7	2443.1	2483.0	2503.0	2536.2	2562.8	2616.0	2619.3	2622.6	2652.5	2692.4
7.5°	2416.5	2376.6	2423.2	2446.4	2469.7	2532.9	2596.0	2629.3	2675.8	2712.4	2752.3
10°	2330.1	2360.0	2373.3	2413.2	2479.7	2552.8	2629.3	2645.9	2748.9	2778.8	2875.2
12.5°	2360.0	2380.0	2406.6	2416.5	2489.7	2599.4	2702.4	2709.0	2815.4	2945.0	2994.9
15°	2436.5	2423.2	2433.2	2446.4	2532.9	2622.6	2788.8	2818.7	2918.5	3064.7	3187.7
17.5°	2599.4	2576.1	2559.5	2556.1	2576.1	2659.2	2855.3	2945.0	3038.1	3237.6	3300.7
20°	3008.2	2988.3	2921.8	2748.9	2689.1	2722.3	2935.1	3061.4	3191.0	3413.7	3516.8
22.5°	3629.8	3649.7	3493.5	3250.9	3001.6	2871.9	3061.4	3171.1	3377.2	3659.7	3752.8
25°	4364.4	4324.5	4135.0	3852.5	3460.3	3154.5	3264.1	3387.1	3639.8	3872.4	3909.0
27.5°	4939.4	4892.9	4746.6	4404.3	4065.2	3570.0	3530.1	3606.5	3905.7	4115.1	4075.2
30°	5507.8	5524.5	5424.7	5019.2	4600.4	4078.5	3825.9	3859.1	4088.5	4357.7	4268.0
32.5°	6232.5	6192.6	6136.1	5780.4	5285.1	4726.7	4294.6	4241.4	4341.1	4696.8	4590.4
35°	6907.2	6884.0	6807.5	6448.5	6016.4	5408.1	4986.0	4866.3	4843.0	5238.6	5052.4
37.5°	7495.6	7455.7	7339.3	7110.0	6691.2	6179.3	5717.2	5610.9	5607.6	5880.1	5521.1
40°	7990.8	8020.8	8007.5	7754.8	7525.5	7116.6	6408.6	6239.1	6225.8	6372.1	6162.7
42.5°	8632.4	8702.2	8665.6	8615.8	8339.9	8180.3	7379.2	7120.0	7003.6	7302.8	7113.3
45°	9603.0	9629.6	9652.8	9529.8	9254.0	9287.2	8383.1	8073.9	8044.0	8489.4	8064.0
47.5°	10510.4	10440.6	10603.5	10610.1	10596.8	10443.9	9466.7	9237.3	9277.2	9616.3	9177.5
50°	10736.4	10915.9	11364.7	11447.8	11663.8	11803.4	10670.0	10440.6	10507.1	10892.7	10390.8
52.5°	10912.6	11185.2	11633.9	12242.2	12823.9	13156.3	12016.2	11830.0	11826.7	12062.7	11371.3
55°	11221.7	11387.9	11776.9	12614.5	13721.4	14266.5	13638.3	13339.1	13069.9	13236.1	12388.5
57.5°	11191.8	11255.0	11860.0	12893.7	14432.7	15423.3	14971.2	14685.3	14339.6	14243.2	13558.5
60°	10666.6	10816.2	11494.3	12704.2	14871.5	16324.1	16214.4	15921.9	15326.9	15100.8	14456.0
62.5°	9626.2	9825.7	10357.5	12039.4	14233.3	16370.6	17071.9	16962.3	16297.5	15891.9	15626.0
65°	7801.4	7894.4	8506.1	10350.9	12790.7	15655.9	18085.8	17949.5	17337.9	16732.9	16227.7
67.5°	5052.4	5142.2	5730.5	7389.2	10045.1	13811.1	18045.9	18421.5	17760.0	17032.1	15852.0
70°	2386.6	2363.3	2911.8	4105.1	6435.2	10547.0	16826.0	17567.2	17005.5	15439.9	13166.3
72.5°	728.0	791.1	1209.9	1818.2	3304.0	6578.2	13189.5	13884.3	13708.1	12335.3	8788.6
75°	322.4	349.0	475.3	744.6	1339.6	2699.1	8147.1	8765.3	8688.9	7276.2	4012.0
77.5°	206.1	226.0	299.2	425.5	608.3	857.6	3752.8	4354.4	4221.5	2556.1	1050.4
80°	146.3	156.2	212.7	292.5	382.3	352.3	1293.0	1535.7	1472.5	694.7	282.5
82.5°	79.8	86.4	156.2	216.1	255.9	179.5	362.3	452.1	472.0	309.1	136.3
85°	29.9	36.6	96.4	152.9	133.0	83.1	106.4	129.6	169.5	169.5	63.2
87.5°	0.0	3.3	39.9	66.5	33.2	23.3	29.9	36.6	46.5	79.8	23.3
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°	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2	2639.2
2.5°	2669.2	2645.9	2655.9	2672.5	2635.9	2655.9	2616.0	2645.9	2655.9	2616.0	2635.9
5°	2702.4	2725.7	2712.4	2685.8	2662.5	2669.2	2659.2	2635.9	2655.9	2662.5	2649.2
7.5°	2798.8	2772.2	2778.8	2748.9	2702.4	2699.1	2635.9	2619.3	2625.9	2632.6	2609.3
10°	2888.5	2905.2	2871.9	2848.6	2772.2	2722.3	2635.9	2542.8	2532.9	2493.0	2526.2
12.5°	3048.1	3008.2	2994.9	2918.5	2842.0	2675.8	2489.7	2346.7	2227.1	2183.9	2140.6
15°	3181.0	3174.4	3151.1	3034.8	2858.6	2556.1	2203.8	1871.4	1642.0	1499.1	1479.2
17.5°	3363.9	3333.9	3290.7	3107.9	2735.6	2243.7	1642.0	1223.2	993.9	904.1	870.9
20°	3503.5	3480.2	3420.4	3091.3	2512.9	1672.0	1017.1	777.8	721.3	704.7	708.0
22.5°	3706.2	3633.1	3520.1	3008.2	2107.4	1113.5	731.3	694.7	684.7	671.4	674.8
25°	3882.4	3815.9	3579.9	2865.3	1502.4	737.9	678.1	658.1	641.5	624.9	621.6
27.5°	4038.6	3955.5	3643.1	2572.8	940.7	634.9	628.2	605.0	571.7	545.1	535.2
30°	4191.5	4095.1	3659.7	2024.3	634.9	575.0	558.4	521.9	478.7	442.1	435.4
32.5°	4447.5	4331.1	3636.4	1445.9	548.5	511.9	475.3	432.1	369.0	339.0	332.4
35°	4846.4	4670.2	3606.5	850.9	491.9	452.1	395.6	339.0	292.5	262.6	255.9
37.5°	5305.1	4999.3	3520.1	568.4	452.1	398.9	325.7	269.2	229.4	206.1	199.4
40°	5986.5	5481.2	3187.7	465.4	402.2	339.0	262.6	212.7	182.8	166.2	159.6
42.5°	6737.7	6033.0	2675.8	418.8	355.7	289.2	209.4	172.8	149.6	133.0	133.0
45°	7638.5	6608.1	2064.2	382.3	315.8	239.3	172.8	139.6	119.7	106.4	99.7
47.5°	8642.3	7129.9	1392.7	345.7	265.9	196.1	142.9	106.4	86.4	76.5	76.5
50°	9539.8	7592.0	887.5	302.5	232.7	162.9	116.3	86.4	69.8	56.5	53.2
52.5°	10354.2	7944.3	611.6	265.9	199.4	133.0	96.4	69.8	53.2	43.2	43.2
55°	11188.5	8123.8	452.1	229.4	172.8	113.0	79.8	63.2	46.5	36.6	33.2
57.5°	11873.2	8200.3	345.7	199.4	146.3	89.7	69.8	53.2	39.9	29.9	26.6
60°	12458.3	8163.7	269.2	166.2	116.3	76.5	59.8	43.2	33.2	23.3	19.9
62.5°	12800.6	7944.3	212.7	142.9	93.1	66.5	49.9	36.6	23.3	16.6	13.3
65°	12807.3	7478.9	166.2	106.4	69.8	56.5	43.2	29.9	16.6	6.6	3.3
67.5°	11889.9	6471.8	133.0	83.1	56.5	43.2	33.2	23.3	6.6	0.0	0.0
70°	9300.5	4896.2	109.7	66.5	46.5	36.6	23.3	13.3	3.3	0.0	0.0
72.5°	5926.7	2931.7	89.7	53.2	39.9	26.6	16.6	10.0	0.0	0.0	0.0
75°	2479.7	904.1	69.8	46.5	29.9	19.9	13.3	3.3	0.0	0.0	0.0
77.5°	638.2	285.9	56.5	39.9	29.9	16.6	10.0	3.3	0.0	0.0	0.0
80°	189.5	106.4	46.5	33.2	23.3	13.3	6.6	3.3	0.0	0.0	0.0
82.5°	86.4	63.2	39.9	29.9	19.9	13.3	6.6	0.0	0.0	0.0	0.0
85°	33.2	19.9	19.9	16.6	16.6	10.0	3.3	0.0	0.0	0.0	0.0
87.5°	13.3	6.6	6.6	6.6	3.3	3.3	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)