

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: P482581

Luminaire Tested: **IFLD-S-SA6D-827-U-T3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482581  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-827-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

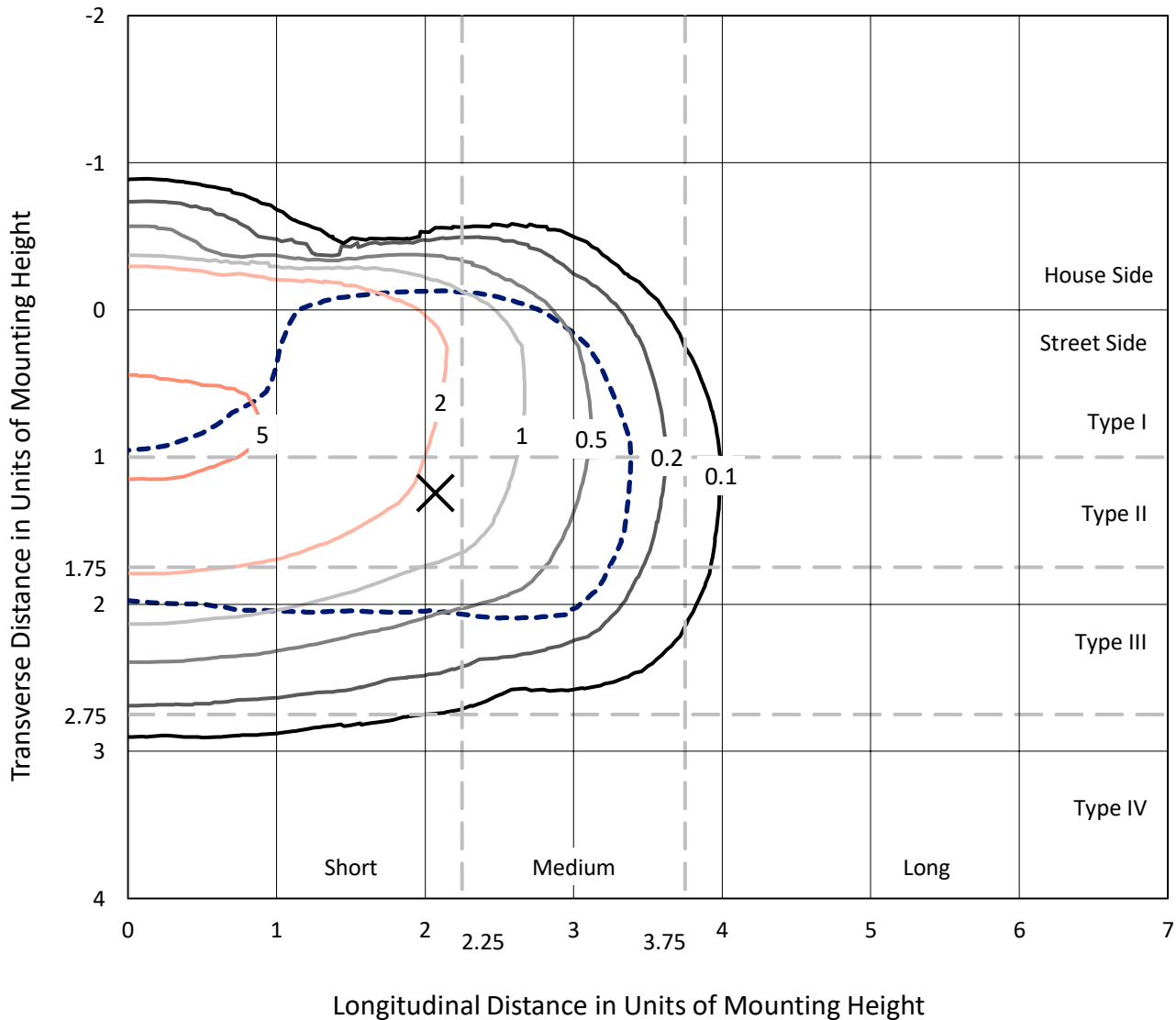
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24939.5 lumens  
Efficiency: N/A  
Efficacy: 67.7 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): 368.2  
Input Voltage (V): 120  
Input Current (Ain): 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

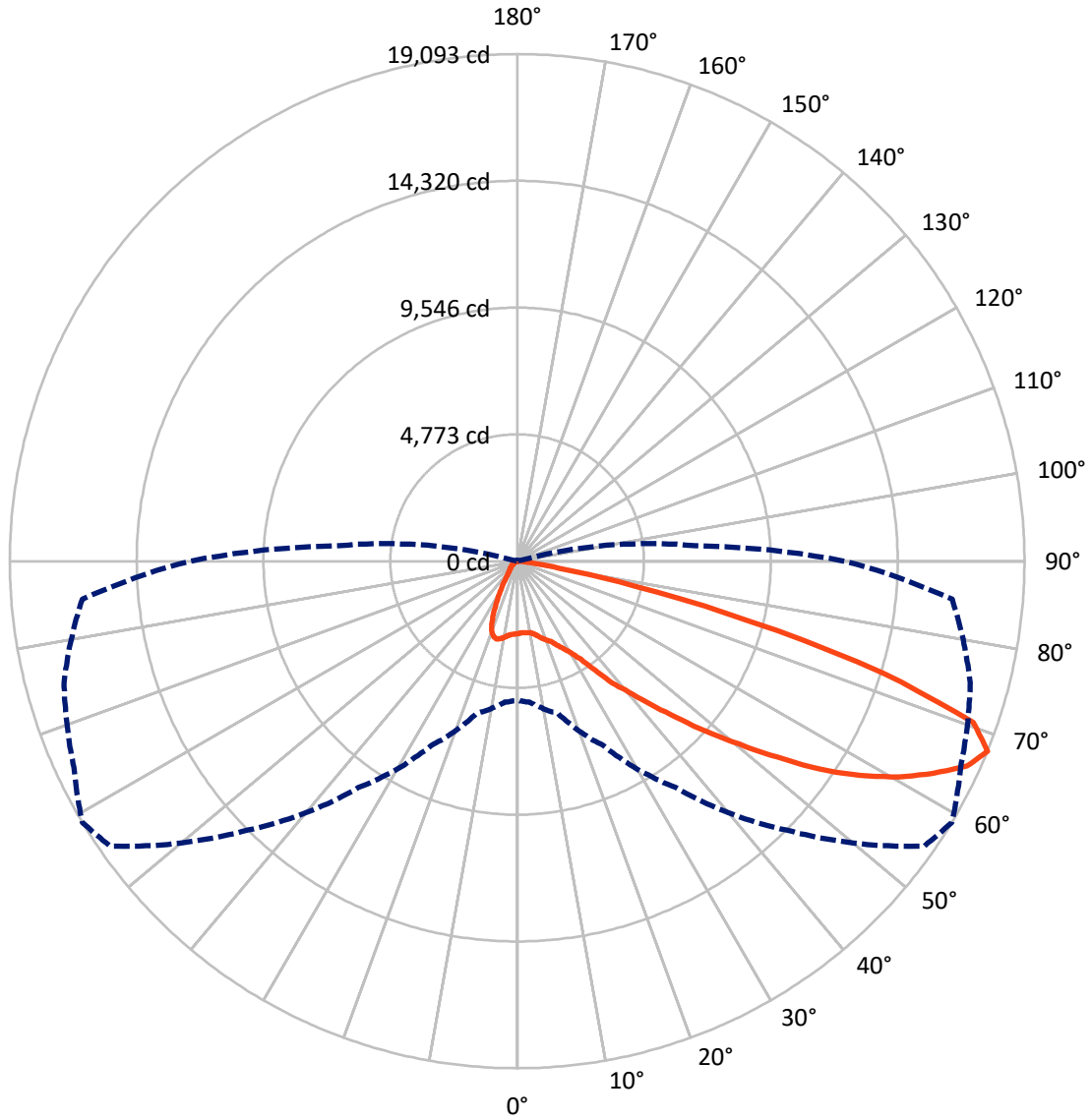
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	2929.6	0.0	2929.6
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	22009.9	0.0	22009.9
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	24939.5	0.0	24939.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.8	1.0
10°-20°	750.6	3.0
20°-30°	1311.8	5.3
30°-40°	2309.6	9.3
40°-50°	4082.6	16.4
50°-60°	6464.2	25.9
60°-70°	7170.5	28.8
70°-80°	2488.0	10.0
80°-90°	102.5	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°	24939.5	100.0
0°-180°	24939.5	100.0

**Coefficient of Utilization**

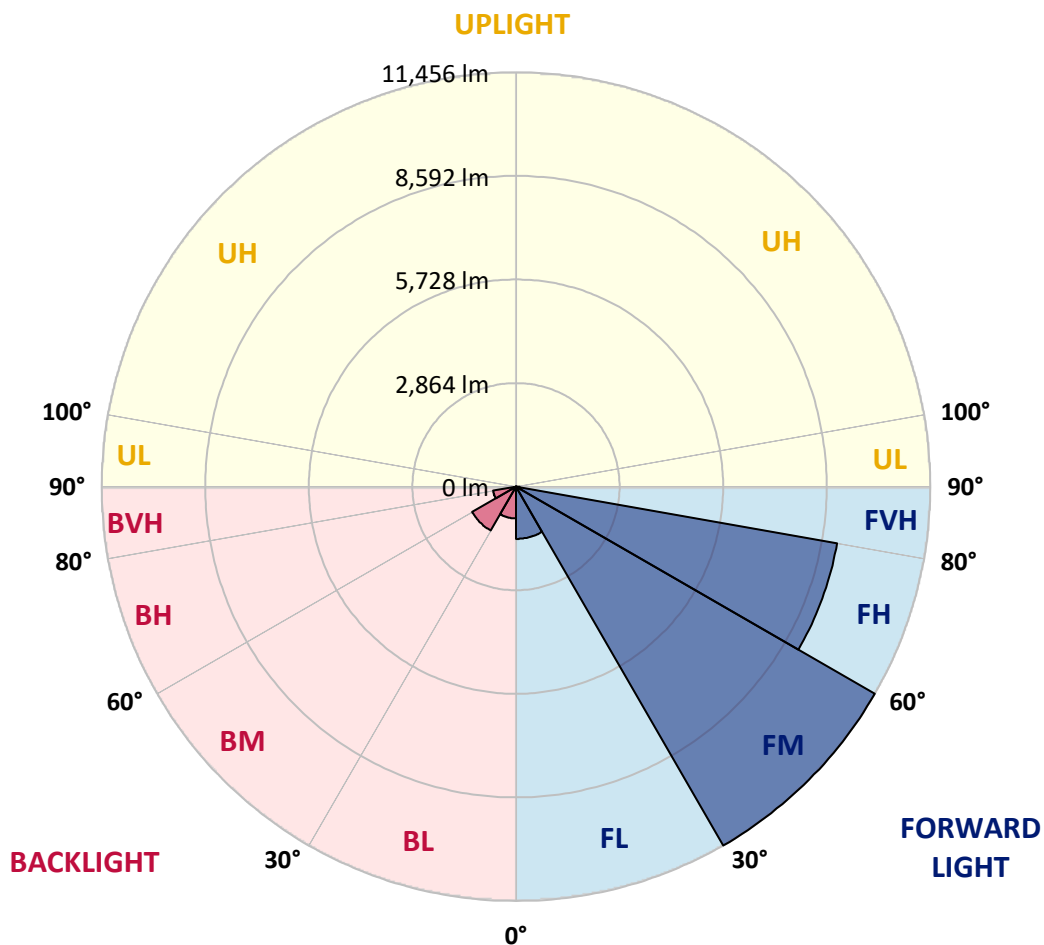


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1444.2	5.8			
FM (30°-60°)	11455.6	45.9			
FH (60°-80°)	9014.3	36.1			G4/12000
FVH (80°-90°)	95.8	0.4			G1/100
BL (0°-30°)	878.0	3.5	B2/1000		
BM (30°-60°)	1400.7	5.6	B2/2500		
BH (60°-80°)	644.3	2.6	B2/1000		G2/1000
BVH (80°-90°)	6.6	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°	2735.4	2735.4	2735.4	2735.4	2735.4	2735.4	2735.4	2735.4	2735.4	2735.4	2735.4
2.5°	2656.2	2618.3	2652.7	2656.2	2659.6	2690.6	2725.1	2701.0	2697.5	2725.1	2749.2
5°	2549.4	2532.2	2573.5	2594.2	2628.6	2656.2	2711.3	2714.7	2718.2	2749.2	2790.5
7.5°	2504.6	2463.3	2511.5	2535.6	2559.7	2625.2	2690.6	2725.1	2773.3	2811.2	2852.6
10°	2415.0	2446.0	2459.8	2501.2	2570.1	2645.8	2725.1	2742.3	2849.1	2880.1	2980.0
12.5°	2446.0	2466.7	2494.3	2504.6	2580.4	2694.1	2800.9	2807.8	2918.0	3052.4	3104.0
15°	2525.3	2511.5	2521.8	2535.6	2625.2	2718.2	2890.4	2921.5	3024.8	3176.4	3303.9
17.5°	2694.1	2670.0	2652.7	2649.3	2670.0	2756.1	2959.4	3052.4	3148.8	3355.5	3421.0
20°	3117.8	3097.2	3028.3	2849.1	2787.1	2821.5	3042.0	3172.9	3307.3	3538.1	3644.9
22.5°	3762.1	3782.7	3620.8	3369.3	3110.9	2976.6	3172.9	3286.6	3500.2	3793.1	3889.5
25°	4523.4	4482.1	4285.7	3992.9	3586.4	3269.4	3383.1	3510.6	3772.4	4013.6	4051.5
27.5°	5119.4	5071.2	4919.6	4564.8	4213.4	3700.0	3658.7	3737.9	4048.0	4265.0	4223.7
30°	5708.5	5725.8	5622.4	5202.1	4768.0	4227.2	3965.3	3999.8	4237.5	4516.5	4423.5
32.5°	6459.6	6418.2	6359.7	5991.0	5477.7	4898.9	4451.1	4396.0	4499.3	4867.9	4757.7
35°	7158.9	7134.8	7055.6	6683.5	6235.7	5605.2	5167.7	5043.6	5019.5	5429.5	5236.6
37.5°	7768.7	7727.4	7606.8	7369.1	6935.0	6404.5	5925.6	5815.3	5811.9	6094.4	5722.3
40°	8282.0	8313.1	8299.3	8037.4	7799.7	7376.0	6642.2	6466.5	6452.7	6604.3	6387.2
42.5°	8947.0	9019.3	8981.4	8929.7	8643.8	8478.4	7648.1	7379.4	7258.8	7568.9	7372.5
45°	9952.9	9980.5	10004.6	9877.1	9591.2	9625.6	8688.6	8368.2	8337.2	8798.8	8357.8
47.5°	10893.4	10821.1	10989.9	10996.8	10983.0	10824.5	9811.7	9574.0	9615.3	9966.7	9512.0
50°	11127.7	11313.7	11778.8	11865.0	12088.9	12233.6	11058.8	10821.1	10890.0	11289.6	10769.4
52.5°	11310.3	11592.8	12057.9	12688.3	13291.2	13635.7	12454.1	12261.2	12257.7	12502.3	11785.7
55°	11630.7	11803.0	12206.0	13074.2	14221.4	14786.4	14135.3	13825.2	13546.2	13718.4	12839.9
57.5°	11599.7	11665.1	12292.2	13363.6	14958.7	15985.3	15516.8	15220.5	14862.2	14762.3	14052.6
60°	11055.4	11210.4	11913.2	13167.2	15413.4	16918.9	16805.3	16502.1	15885.4	15651.1	14982.8
62.5°	9977.0	10183.7	10735.0	12478.2	14752.0	16967.2	17694.1	17580.4	16891.4	16471.1	16195.5
65°	8085.7	8182.1	8816.0	10728.1	13256.8	16226.5	18744.8	18603.6	17969.7	17342.7	16819.0
67.5°	5236.6	5329.6	5939.4	7658.5	10411.1	14314.4	18703.5	19092.8	18407.2	17652.7	16429.7
70°	2473.6	2449.5	3017.9	4254.7	6669.7	10931.3	17439.2	18207.4	17625.2	16002.5	13646.1
72.5°	754.5	819.9	1254.0	1884.5	3424.4	6817.9	13670.2	14390.2	14207.6	12784.8	9108.9
75°	334.2	361.7	492.7	771.7	1388.4	2797.4	8444.0	9084.8	9005.5	7541.3	4158.2
77.5°	213.6	234.3	310.1	441.0	630.5	888.8	3889.5	4513.1	4375.3	2649.3	1088.7
80°	151.6	161.9	220.5	303.2	396.2	365.2	1340.1	1591.6	1526.2	720.0	292.8
82.5°	82.7	89.6	161.9	223.9	265.3	186.0	375.5	468.5	489.2	320.4	141.2
85°	31.0	37.9	99.9	158.5	137.8	86.1	110.2	134.4	175.7	175.7	65.5
87.5°	0.0	3.4	41.3	68.9	34.5	24.1	31.0	37.9	48.2	82.7	24.1
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°	2735.4	2735.4	2735.4	2735.4	2735.4	2735.4	2735.4	2735.4	2735.4	2735.4	2735.4
2.5°	2766.4	2742.3	2752.6	2769.9	2732.0	2752.6	2711.3	2742.3	2752.6	2711.3	2732.0
5°	2800.9	2825.0	2811.2	2783.6	2759.5	2766.4	2756.1	2732.0	2752.6	2759.5	2745.8
7.5°	2900.8	2873.2	2880.1	2849.1	2800.9	2797.4	2732.0	2714.7	2721.6	2728.5	2704.4
10°	2993.8	3011.0	2976.6	2952.5	2873.2	2821.5	2732.0	2635.5	2625.2	2583.8	2618.3
12.5°	3159.2	3117.8	3104.0	3024.8	2945.6	2773.3	2580.4	2432.2	2308.2	2263.4	2218.7
15°	3297.0	3290.1	3266.0	3145.4	2962.8	2649.3	2284.1	1939.6	1701.9	1553.7	1533.1
17.5°	3486.5	3455.4	3410.7	3221.2	2835.3	2325.4	1701.9	1267.8	1030.1	937.1	902.6
20°	3631.1	3607.0	3545.0	3204.0	2604.5	1732.9	1054.2	806.2	747.6	730.4	733.8
22.5°	3841.3	3765.5	3648.4	3117.8	2184.2	1154.1	757.9	720.0	709.7	695.9	699.4
25°	4023.9	3955.0	3710.4	2969.7	1557.2	764.8	702.8	682.1	664.9	647.7	644.2
27.5°	4185.8	4099.7	3775.8	2666.5	975.0	658.0	651.1	627.0	592.6	565.0	554.7
30°	4344.3	4244.4	3793.1	2098.1	658.0	596.0	578.8	540.9	496.1	458.2	451.3
32.5°	4609.6	4489.0	3769.0	1498.6	568.4	530.5	492.7	447.9	382.4	351.4	344.5
35°	5023.0	4840.4	3737.9	881.9	509.9	468.5	410.0	351.4	303.2	272.2	265.3
37.5°	5498.4	5181.4	3648.4	589.1	468.5	413.4	337.6	279.1	237.7	213.6	206.7
40°	6204.6	5681.0	3303.9	482.3	416.9	351.4	272.2	220.5	189.5	172.3	165.4
42.5°	6983.2	6252.9	2773.3	434.1	368.6	299.7	217.0	179.1	155.0	137.8	137.8
45°	7916.9	6848.9	2139.4	396.2	327.3	248.0	179.1	144.7	124.0	110.2	103.4
47.5°	8957.3	7389.8	1443.5	358.3	275.6	203.3	148.1	110.2	89.6	79.2	79.2
50°	9887.5	7868.6	919.8	313.5	241.2	168.8	120.6	89.6	72.3	58.6	55.1
52.5°	10731.5	8233.8	633.9	275.6	206.7	137.8	99.9	72.3	55.1	44.8	44.8
55°	11596.2	8419.9	468.5	237.7	179.1	117.1	82.7	65.5	48.2	37.9	34.5
57.5°	12305.9	8499.1	358.3	206.7	151.6	93.0	72.3	55.1	41.3	31.0	27.6
60°	12912.3	8461.2	279.1	172.3	120.6	79.2	62.0	44.8	34.5	24.1	20.7
62.5°	13267.1	8233.8	220.5	148.1	96.5	68.9	51.7	37.9	24.1	17.2	13.8
65°	13274.0	7751.5	172.3	110.2	72.3	58.6	44.8	31.0	17.2	6.9	3.4
67.5°	12323.2	6707.6	137.8	86.1	58.6	44.8	34.5	24.1	6.9	0.0	0.0
70°	9639.4	5074.6	113.7	68.9	48.2	37.9	24.1	13.8	3.4	0.0	0.0
72.5°	6142.6	3038.6	93.0	55.1	41.3	27.6	17.2	10.3	0.0	0.0	0.0
75°	2570.1	937.1	72.3	48.2	31.0	20.7	13.8	3.4	0.0	0.0	0.0
77.5°	661.5	296.3	58.6	41.3	31.0	17.2	10.3	3.4	0.0	0.0	0.0
80°	196.4	110.2	48.2	34.5	24.1	13.8	6.9	3.4	0.0	0.0	0.0
82.5°	89.6	65.5	41.3	31.0	20.7	13.8	6.9	0.0	0.0	0.0	0.0
85°	34.5	20.7	20.7	17.2	17.2	10.3	3.4	0.0	0.0	0.0	0.0
87.5°	13.8	6.9	6.9	6.9	3.4	3.4	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)