

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: P482346

Luminaire Tested: **IFLD-S-SA6C-727-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482346  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-727-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

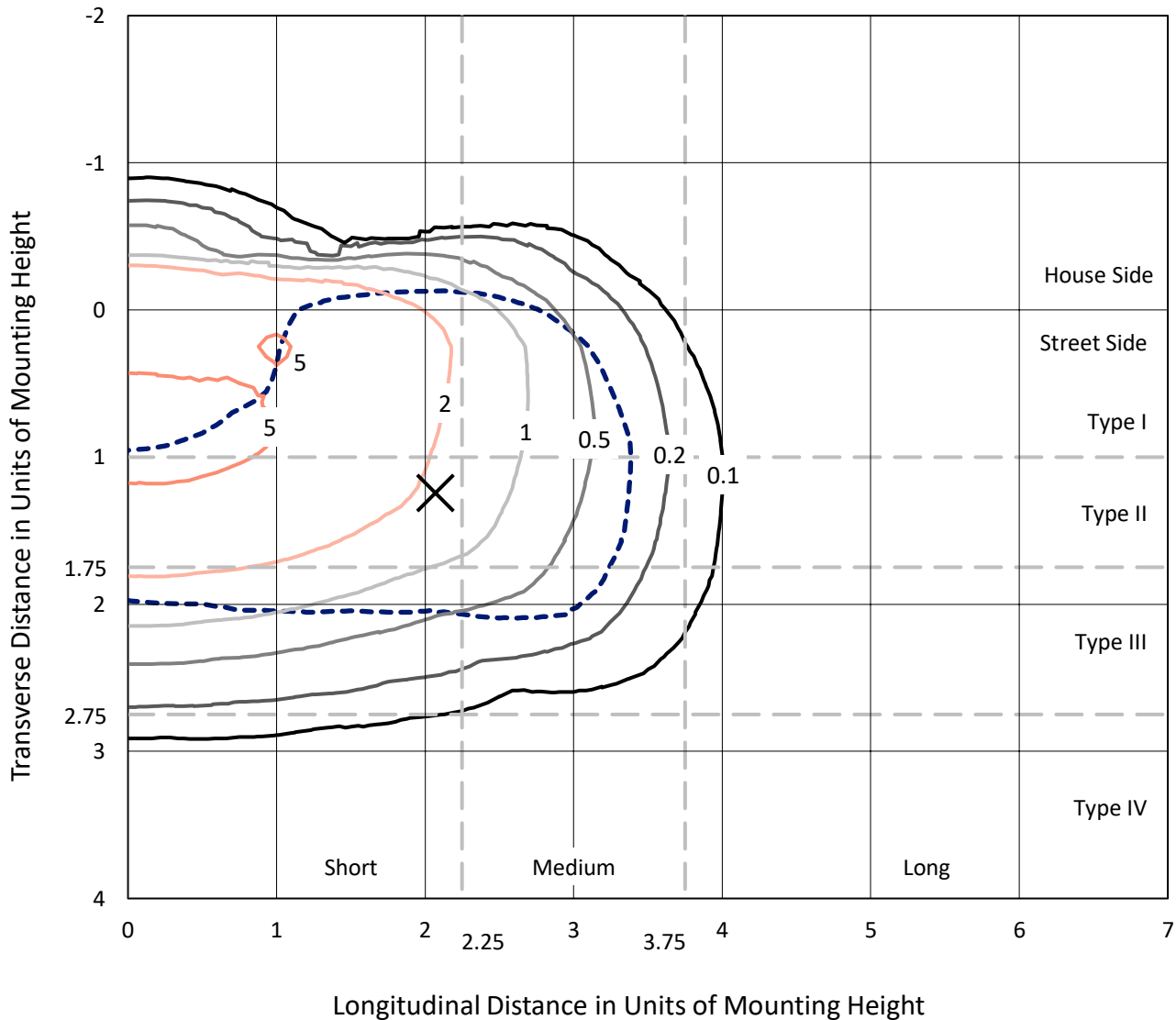
Lumens per Lamp: N/A  
Luminaire Lumens: 25785.2 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 321.5  
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

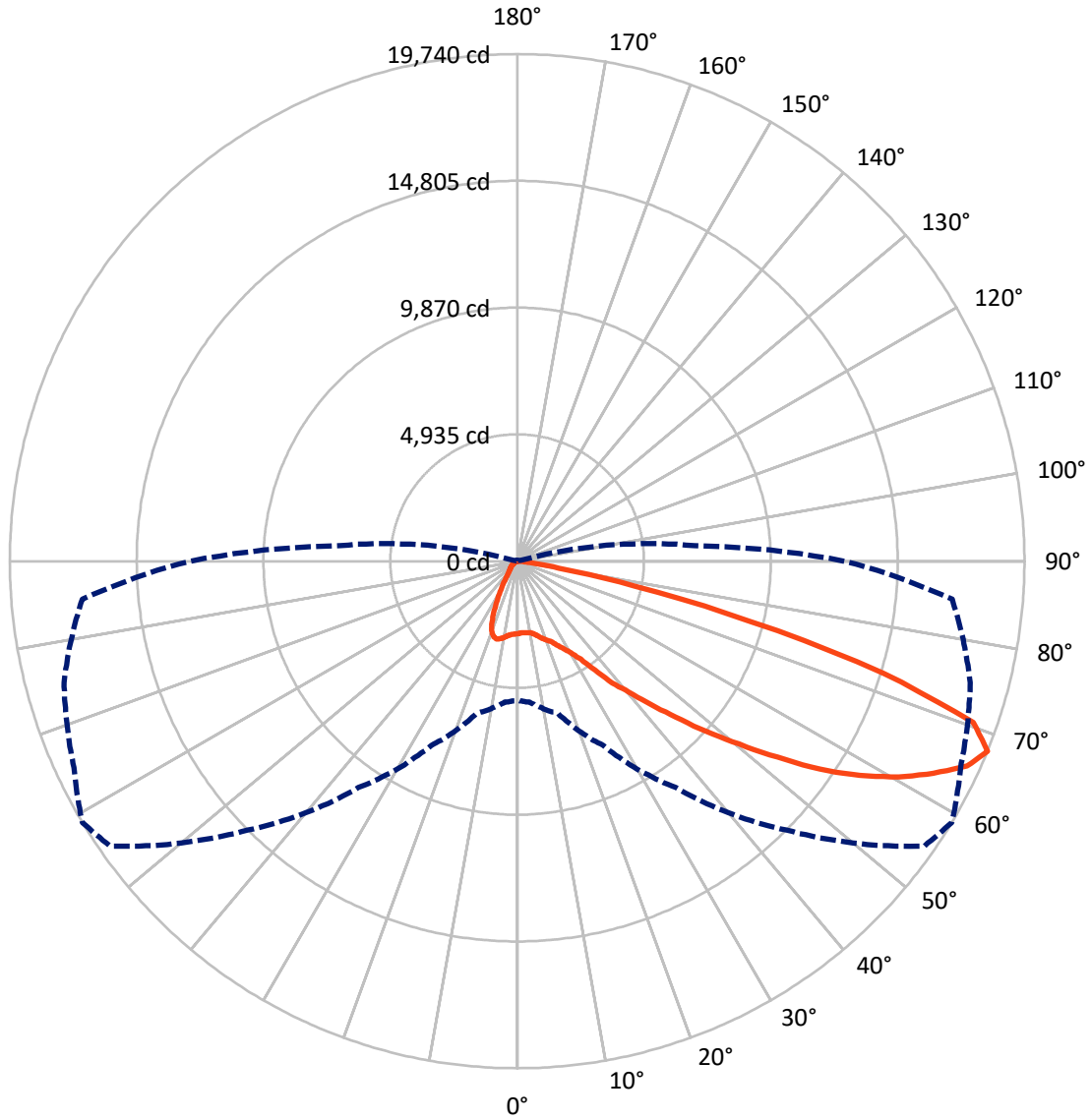
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	3028.9	0.0	3028.9
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	22756.3	0.0	22756.3
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	25785.2	0.0	25785.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.7	1.0
10°-20°	776.0	3.0
20°-30°	1356.3	5.3
30°-40°	2387.9	9.3
40°-50°	4221.0	16.4
50°-60°	6683.4	25.9
60°-70°	7413.7	28.8
70°-80°	2572.4	10.0
80°-90°	105.9	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°	25785.2	100.0
0°-180°	25785.2	100.0

**Coefficient of Utilization**

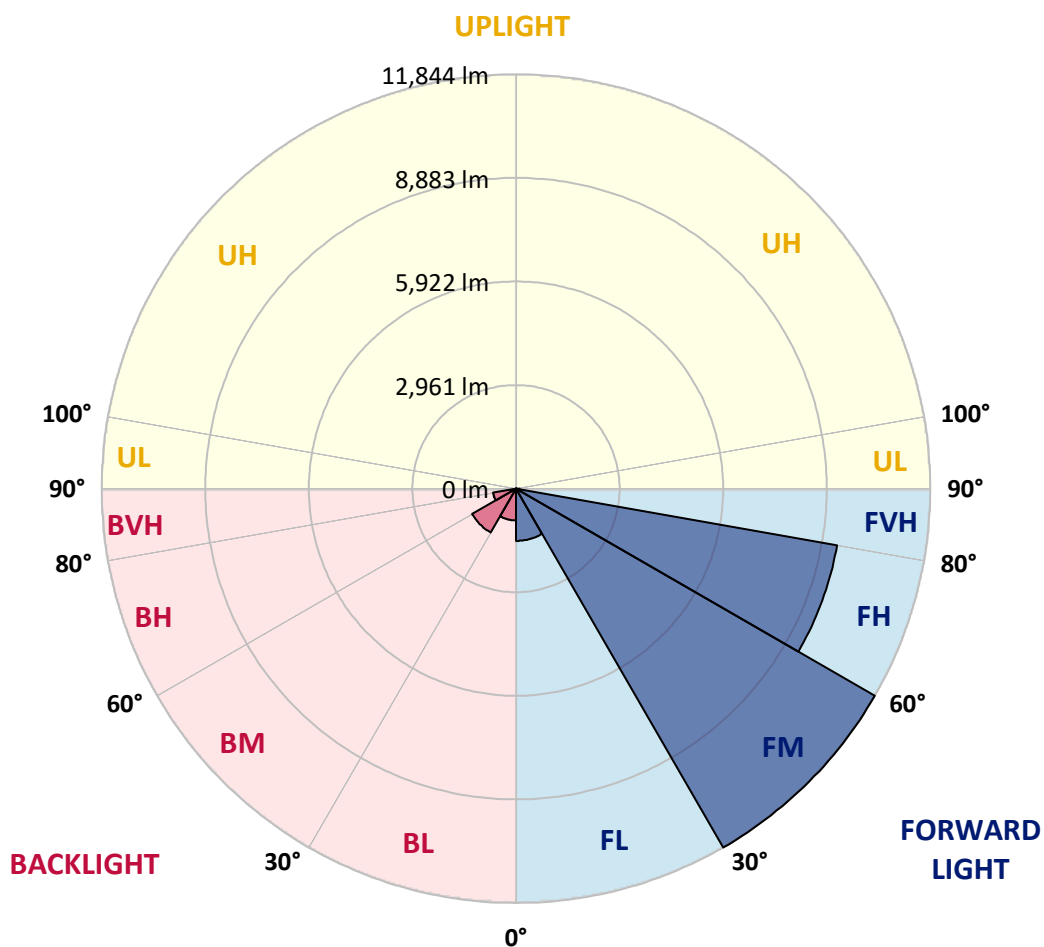


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1493.2	5.8			
FM (30°-60°)	11844.1	45.9			
FH (60°-80°)	9320.0	36.1			G4/12000
FVH (80°-90°)	99.1	0.4			G1/100
BL (0°-30°)	907.8	3.5	B2/1000		
BM (30°-60°)	1448.2	5.6	B2/2500		
BH (60°-80°)	666.1	2.6	B2/1000		G2/1000
BVH (80°-90°)	6.9	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°	2828.2	2828.2	2828.2	2828.2	2828.2	2828.2	2828.2	2828.2	2828.2	2828.2	2828.2
2.5°	2746.2	2707.1	2742.7	2746.2	2749.8	2781.9	2817.5	2792.6	2789.0	2817.5	2842.4
5°	2635.8	2618.0	2660.8	2682.1	2717.8	2746.2	2803.2	2806.8	2810.4	2842.4	2885.2
7.5°	2589.5	2546.8	2596.6	2621.6	2646.5	2714.2	2781.9	2817.5	2867.4	2906.5	2949.3
10°	2496.9	2529.0	2543.2	2586.0	2657.2	2735.6	2817.5	2835.3	2945.7	2977.8	3081.1
12.5°	2529.0	2550.3	2578.8	2589.5	2667.9	2785.4	2895.8	2903.0	3017.0	3155.9	3209.3
15°	2610.9	2596.6	2607.3	2621.6	2714.2	2810.4	2988.5	3020.5	3127.4	3284.1	3415.9
17.5°	2785.4	2760.5	2742.7	2739.1	2760.5	2849.5	3059.7	3155.9	3255.6	3469.3	3537.0
20°	3223.5	3202.2	3130.9	2945.7	2881.6	2917.2	3145.2	3280.5	3419.5	3658.1	3768.5
22.5°	3889.6	3911.0	3743.6	3483.6	3216.4	3077.5	3280.5	3398.1	3618.9	3921.7	4021.4
25°	4676.8	4634.1	4431.0	4128.3	3708.0	3380.3	3497.8	3629.6	3900.3	4149.6	4188.8
27.5°	5293.0	5243.2	5086.4	4719.6	4356.2	3825.5	3782.8	3864.7	4185.3	4409.7	4366.9
30°	5902.1	5919.9	5813.1	5378.5	4929.7	4370.5	4099.8	4135.4	4381.2	4669.7	4573.5
32.5°	6678.6	6635.9	6575.3	6194.2	5663.5	5065.1	4602.0	4545.0	4651.9	5033.0	4919.0
35°	7401.7	7376.8	7294.8	6910.1	6447.1	5795.3	5342.9	5214.7	5189.7	5613.6	5414.1
37.5°	8032.1	7989.4	7864.7	7619.0	7170.2	6621.6	6126.5	6012.5	6009.0	6301.1	5916.4
40°	8562.9	8594.9	8580.7	8310.0	8064.2	7626.1	6867.4	6685.7	6671.5	6828.2	6603.8
42.5°	9250.3	9325.1	9285.9	9232.5	8936.9	8765.9	7907.5	7629.7	7505.0	7825.6	7622.5
45°	10290.4	10318.9	10343.8	10212.1	9916.4	9952.0	8983.2	8651.9	8619.9	9097.2	8641.2
47.5°	11262.8	11188.0	11362.6	11369.7	11355.4	11191.6	10144.4	9898.6	9941.3	10304.7	9834.5
50°	11505.0	11697.4	12178.2	12267.3	12498.8	12648.4	11433.8	11188.0	11259.3	11672.4	11134.6
52.5°	11693.8	11985.9	12466.8	13118.6	13741.9	14098.1	12876.4	12676.9	12673.3	12926.2	12185.4
55°	12025.1	12203.2	12619.9	13517.5	14703.6	15287.8	14614.6	14294.0	14005.5	14183.6	13275.3
57.5°	11993.0	12060.7	12709.0	13816.7	15465.9	16527.4	16042.9	15736.6	15366.2	15262.9	14529.1
60°	11430.2	11590.5	12317.2	13613.7	15936.1	17492.6	17375.1	17061.6	16424.1	16181.8	15490.8
62.5°	10315.3	10529.1	11099.0	12901.3	15252.2	17542.5	18294.1	18176.5	17464.1	17029.6	16744.6
65°	8359.8	8459.6	9115.0	11091.8	13706.3	16776.7	19380.5	19234.4	18579.0	17930.8	17389.3
67.5°	5414.1	5510.3	6140.8	7918.2	10764.1	14799.8	19337.7	19740.2	19031.4	18251.3	16986.8
70°	2557.5	2532.5	3120.2	4399.0	6895.9	11302.0	18030.5	18824.8	18222.8	16545.2	14108.8
72.5°	780.1	847.7	1296.5	1948.4	3540.6	7049.1	14133.7	14878.2	14689.4	13218.3	9417.7
75°	345.5	374.0	509.4	797.9	1435.5	2892.3	8730.3	9392.8	9310.9	7797.1	4299.2
77.5°	220.8	242.2	320.6	455.9	651.8	919.0	4021.4	4666.1	4523.6	2739.1	1125.6
80°	156.7	167.4	228.0	313.4	409.6	377.6	1385.6	1645.6	1577.9	744.4	302.8
82.5°	85.5	92.6	167.4	231.5	274.3	192.3	388.3	484.4	505.8	331.3	146.0
85°	32.1	39.2	103.3	163.8	142.5	89.0	114.0	138.9	181.7	181.7	67.7
87.5°	0.0	3.6	42.7	71.2	35.6	24.9	32.1	39.2	49.9	85.5	24.9
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°	2828.2	2828.2	2828.2	2828.2	2828.2	2828.2	2828.2	2828.2	2828.2	2828.2	2828.2
2.5°	2860.2	2835.3	2846.0	2863.8	2824.6	2846.0	2803.2	2835.3	2846.0	2803.2	2824.6
5°	2895.8	2920.8	2906.5	2878.0	2853.1	2860.2	2849.5	2824.6	2846.0	2853.1	2838.9
7.5°	2999.1	2970.6	2977.8	2945.7	2895.8	2892.3	2824.6	2806.8	2813.9	2821.0	2796.1
10°	3095.3	3113.1	3077.5	3052.6	2970.6	2917.2	2824.6	2724.9	2714.2	2671.4	2707.1
12.5°	3266.3	3223.5	3209.3	3127.4	3045.4	2867.4	2667.9	2514.7	2386.5	2340.2	2293.9
15°	3408.8	3401.6	3376.7	3252.0	3063.3	2739.1	2361.6	2005.4	1759.6	1606.4	1585.1
17.5°	3604.7	3572.6	3526.3	3330.4	2931.5	2404.3	1759.6	1310.8	1065.0	968.8	933.2
20°	3754.3	3729.3	3665.2	3312.6	2692.8	1791.7	1090.0	833.5	772.9	755.1	758.7
22.5°	3971.6	3893.2	3772.1	3223.5	2258.3	1193.2	783.6	744.4	733.8	719.5	723.1
25°	4160.3	4089.1	3836.2	3070.4	1610.0	790.7	726.6	705.3	687.5	669.6	666.1
27.5°	4327.7	4238.7	3903.9	2756.9	1008.0	680.3	673.2	648.3	612.7	584.2	573.5
30°	4491.6	4388.3	3921.7	2169.2	680.3	616.2	598.4	559.2	512.9	473.7	466.6
32.5°	4765.9	4641.2	3896.8	1549.4	587.7	548.5	509.4	463.1	395.4	363.3	356.2
35°	5193.3	5004.5	3864.7	911.9	527.2	484.4	423.9	363.3	313.4	281.4	274.3
37.5°	5684.8	5357.1	3772.1	609.1	484.4	427.4	349.1	288.5	245.8	220.8	213.7
40°	6415.0	5873.6	3415.9	498.7	431.0	363.3	281.4	228.0	195.9	178.1	171.0
42.5°	7220.0	6464.9	2867.4	448.8	381.1	309.9	224.4	185.2	160.3	142.5	142.5
45°	8185.3	7081.1	2212.0	409.6	338.4	256.5	185.2	149.6	128.2	114.0	106.9
47.5°	9261.0	7640.3	1492.4	370.4	285.0	210.2	153.2	114.0	92.6	81.9	81.9
50°	10222.7	8135.4	951.0	324.1	249.3	174.5	124.7	92.6	74.8	60.6	57.0
52.5°	11095.4	8513.0	655.4	285.0	213.7	142.5	103.3	74.8	57.0	46.3	46.3
55°	11989.5	8705.4	484.4	245.8	185.2	121.1	85.5	67.7	49.9	39.2	35.6
57.5°	12723.2	8787.3	370.4	213.7	156.7	96.2	74.8	57.0	42.7	32.1	28.5
60°	13350.1	8748.1	288.5	178.1	124.7	81.9	64.1	46.3	35.6	24.9	21.4
62.5°	13717.0	8513.0	228.0	153.2	99.7	71.2	53.4	39.2	24.9	17.8	14.2
65°	13724.1	8014.3	178.1	114.0	74.8	60.6	46.3	32.1	17.8	7.1	3.6
67.5°	12741.0	6935.1	142.5	89.0	60.6	46.3	35.6	24.9	7.1	0.0	0.0
70°	9966.3	5246.7	117.5	71.2	49.9	39.2	24.9	14.2	3.6	0.0	0.0
72.5°	6350.9	3141.6	96.2	57.0	42.7	28.5	17.8	10.7	0.0	0.0	0.0
75°	2657.2	968.8	74.8	49.9	32.1	21.4	14.2	3.6	0.0	0.0	0.0
77.5°	683.9	306.3	60.6	42.7	32.1	17.8	10.7	3.6	0.0	0.0	0.0
80°	203.0	114.0	49.9	35.6	24.9	14.2	7.1	3.6	0.0	0.0	0.0
82.5°	92.6	67.7	42.7	32.1	21.4	14.2	7.1	0.0	0.0	0.0	0.0
85°	35.6	21.4	21.4	17.8	17.8	10.7	3.6	0.0	0.0	0.0	0.0
87.5°	14.2	7.1	7.1	7.1	3.6	3.6	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)