

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: P483891

Luminaire Tested: **IFLD-S-SA3C-727-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483891  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-727-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (48) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

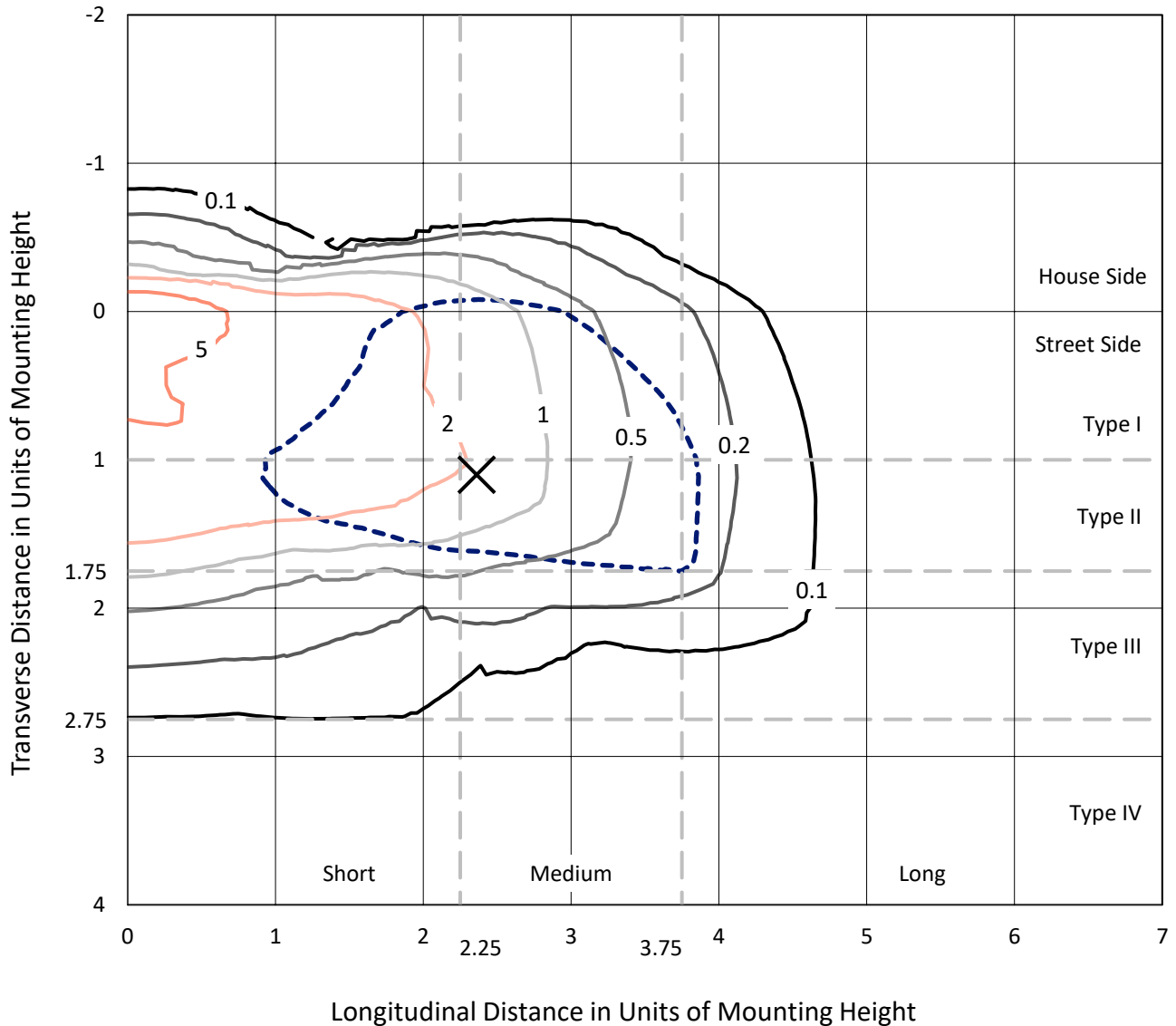
Lumens per Lamp: N/A  
Luminaire Lumens: 14579.9 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8  
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

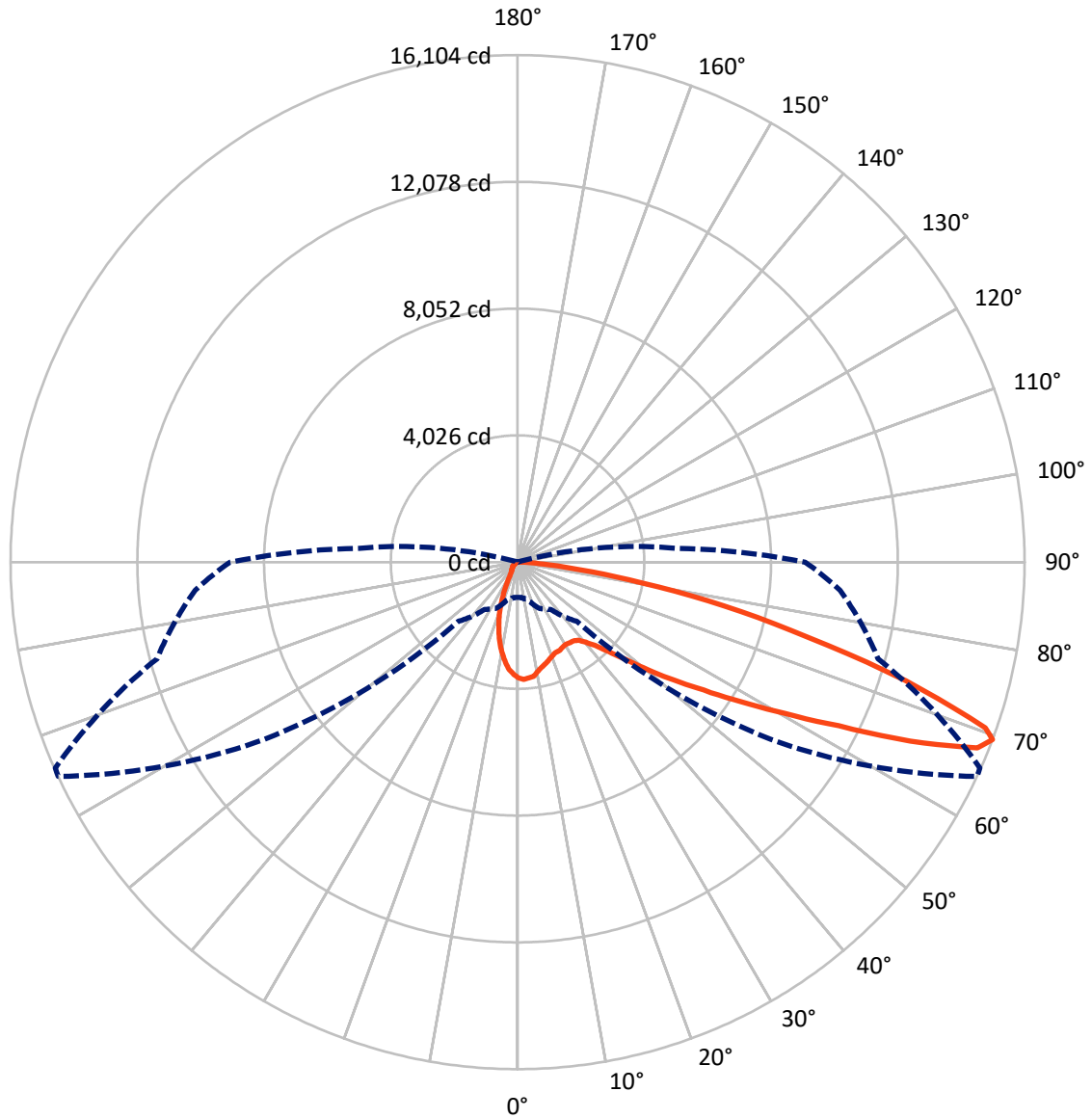
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1768.6	0.0	1768.6
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	12811.3	0.0	12811.3
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	14579.9	0.0	14579.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.8	2.1
10°-20°	658.2	4.5
20°-30°	916.3	6.3
30°-40°	1298.5	8.9
40°-50°	2046.4	14.0
50°-60°	3320.6	22.8
60°-70°	3708.5	25.4
70°-80°	2088.3	14.3
80°-90°	242.3	1.7
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°	14579.9	100.0
0°-180°	14579.9	100.0



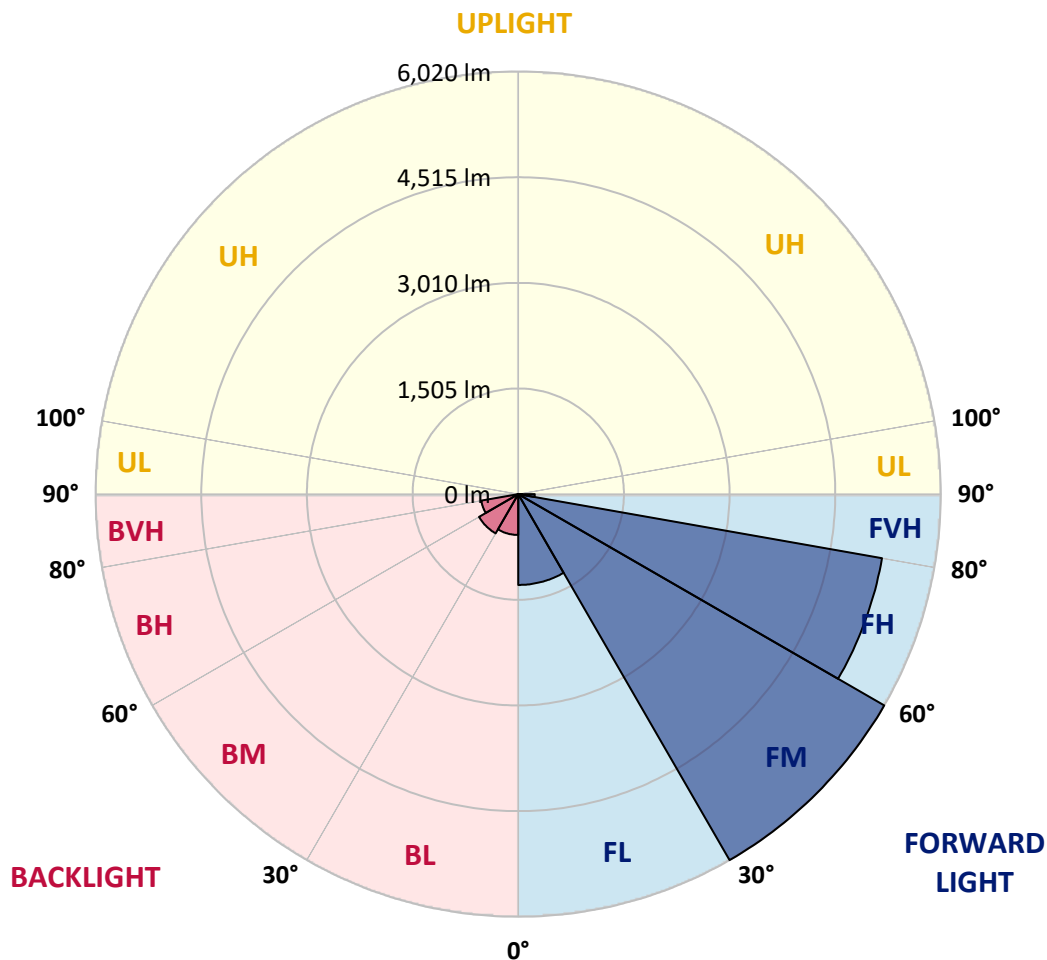
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1293.8	8.9			
FM (30°-60°)	6020.2	41.3			
FH (60°-80°)	5261.7	36.1			G3/7500
FVH (80°-90°)	235.6	1.6			G3/500
BL (0°-30°)	581.5	4.0	B2/1000		
BM (30°-60°)	645.4	4.4	B1/1000		
BH (60°-80°)	535.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	6.7	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-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9
2.5°	3540.2	3567.8	3575.6	3603.2	3616.9	3675.9	3709.4	3729.0	3719.2	3740.8	3742.8
5°	3288.5	3272.8	3314.1	3343.6	3406.5	3508.8	3613.0	3693.6	3731.0	3766.4	3760.5
7.5°	3019.0	3011.2	3052.5	3119.3	3176.4	3300.3	3467.5	3666.1	3658.2	3744.8	3770.4
10°	2834.2	2842.0	2855.8	2922.7	3007.2	3133.1	3341.6	3526.5	3567.8	3750.7	3801.8
12.5°	2665.0	2678.8	2704.3	2773.2	2871.5	3001.3	3203.9	3420.3	3483.2	3717.2	3819.5
15°	2609.9	2578.5	2629.6	2680.7	2783.0	2899.1	3070.2	3339.6	3367.2	3677.9	3849.0
17.5°	2564.7	2545.0	2568.6	2609.9	2718.1	2812.5	2973.8	3253.1	3304.2	3662.2	3845.1
20°	2578.5	2560.8	2570.6	2602.1	2651.2	2739.7	2889.2	3170.5	3225.5	3589.4	3839.2
22.5°	2617.8	2631.6	2613.9	2621.7	2637.5	2682.7	2844.0	3111.5	3158.7	3575.6	3872.6
25°	2794.8	2771.2	2747.6	2737.8	2645.3	2665.0	2830.2	3107.5	3141.0	3526.5	3845.1
27.5°	2979.7	2960.0	2950.2	2893.2	2767.3	2708.3	2832.2	3052.5	3097.7	3506.8	3811.7
30°	3203.9	3229.5	3190.1	3121.3	2946.3	2800.7	2853.8	3024.9	3087.9	3432.1	3790.0
32.5°	3439.9	3453.7	3473.4	3422.2	3196.0	2940.4	2918.7	3050.5	3054.4	3432.1	3740.8
35°	3707.4	3687.7	3738.9	3742.8	3544.2	3188.2	3042.6	3068.2	3109.5	3416.3	3723.1
37.5°	3937.5	3971.0	4030.0	4124.4	3919.8	3538.3	3235.4	3150.8	3168.5	3489.1	3736.9
40°	4189.3	4222.7	4356.5	4450.9	4334.8	3931.6	3528.4	3343.6	3357.3	3597.3	3807.7
42.5°	4466.6	4531.5	4690.8	4856.0	4824.6	4431.2	3906.1	3626.8	3620.9	3866.7	3953.3
45°	4842.3	4928.8	5101.9	5292.7	5320.2	5003.5	4409.6	4049.6	4069.3	4218.8	4254.2
47.5°	5365.4	5361.5	5530.6	5743.0	5902.4	5597.5	5011.4	4618.0	4616.1	4775.4	4700.6
50°	5870.9	5872.9	5918.1	6163.9	6577.0	6421.6	5756.8	5373.3	5351.7	5430.3	5310.4
52.5°	6104.9	6077.4	6044.0	6341.0	7096.2	7460.1	6700.9	6228.8	6211.1	6163.9	6132.5
55°	5859.1	5868.9	5867.0	6175.7	7369.6	8555.6	7912.4	7170.9	7141.4	6993.9	7037.2
57.5°	5070.4	5038.9	5107.8	5589.6	7056.9	9303.0	9645.2	8358.9	8282.2	7792.5	7694.1
60°	3774.3	3784.1	3841.2	4409.6	6280.0	9460.3	11303.2	9753.3	9422.9	8355.0	8219.2
62.5°	2635.5	2615.8	2637.5	2956.1	4490.2	8830.9	12424.3	11448.7	11130.1	8994.2	8915.5
65°	1886.2	1860.6	1947.1	2141.8	2696.5	6752.0	12583.6	13706.6	13421.4	10014.9	9826.1
67.5°	1357.1	1353.2	1453.5	1807.5	1915.7	3888.4	11403.5	15752.1	15579.0	11226.5	10380.8
69°	1123.0	1125.0	1221.4	1618.7	1829.1	2655.2	9812.4	16104.1	16072.7	11851.9	10276.5
70°	979.5	987.3	1099.4	1506.6	1793.7	2183.1	8459.2	15758.0	15726.5	11973.9	9932.3
72.5°	603.8	609.7	757.2	1207.6	1705.2	1781.9	5058.6	12892.4	13000.5	11415.3	8557.5
75°	289.1	291.1	397.3	873.3	1644.2	1689.5	2710.2	9513.4	9741.5	9216.4	6687.1
77.5°	153.4	153.4	190.8	464.2	1331.5	1589.2	1608.8	6710.7	6899.5	5827.6	3801.8
80°	76.7	78.7	116.0	241.9	826.1	1557.7	1256.8	4002.4	4104.7	2377.9	1184.0
82.5°	29.5	31.5	55.1	145.5	428.8	1315.8	1103.4	1968.8	1943.2	556.6	289.1
85°	3.9	3.9	19.7	86.5	182.9	580.2	910.6	822.1	794.6	121.9	139.6
87.5°	0.0	0.0	3.9	25.6	55.1	169.1	352.1	226.2	251.8	33.4	68.8
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°	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9	3675.9
2.5°	3733.0	3691.7	3628.7	3567.8	3502.9	3424.2	3337.7	3306.2	3251.1	3247.2	3278.7
5°	3729.0	3662.2	3552.0	3422.2	3237.3	3097.7	2946.3	2836.1	2751.5	2696.5	2710.2
7.5°	3748.7	3668.1	3477.3	3198.0	2960.0	2682.7	2448.7	2287.4	2139.9	2067.1	2059.2
10°	3717.2	3609.1	3329.8	2938.4	2588.3	2200.8	1858.6	1642.3	1422.0	1341.4	1345.3
12.5°	3734.9	3583.5	3170.5	2670.9	2189.0	1685.5	1276.5	981.4	774.9	708.0	700.2
15°	3746.7	3528.4	3017.1	2350.3	1746.5	1148.6	739.5	556.6	491.7	479.9	477.9
17.5°	3701.5	3461.6	2800.7	2033.7	1294.2	698.2	491.7	454.3	442.5	434.7	430.7
20°	3699.5	3422.2	2613.9	1709.1	863.4	476.0	424.8	411.1	393.4	387.5	387.5
22.5°	3666.1	3339.6	2389.7	1353.2	550.7	409.1	381.6	359.9	340.3	332.4	330.4
25°	3656.3	3243.2	2179.2	1016.8	418.9	365.8	338.3	306.8	283.2	271.4	265.5
27.5°	3628.7	3160.6	1966.8	715.9	365.8	326.5	291.1	257.7	230.1	212.4	210.4
30°	3530.4	3074.1	1730.8	495.6	332.4	289.1	249.8	210.4	182.9	171.1	167.2
32.5°	3489.1	2993.5	1473.1	381.6	302.9	255.7	210.4	175.0	153.4	141.6	139.6
35°	3439.9	2875.5	1223.3	332.4	275.4	222.2	177.0	147.5	129.8	120.0	120.0
37.5°	3445.8	2781.1	989.3	300.9	245.8	190.8	151.4	125.9	110.1	100.3	100.3
40°	3428.1	2706.3	769.0	273.4	218.3	163.2	127.8	106.2	92.4	82.6	80.6
42.5°	3508.8	2686.6	580.2	249.8	190.8	139.6	110.1	90.5	76.7	64.9	64.9
45°	3644.5	2718.1	452.4	228.1	163.2	120.0	94.4	74.7	61.0	53.1	51.1
47.5°	4006.4	2842.0	354.0	210.4	139.6	104.2	78.7	61.0	49.2	41.3	39.3
50°	4531.5	3119.3	300.9	184.9	118.0	88.5	64.9	47.2	39.3	31.5	29.5
52.5°	5278.9	3585.5	273.4	163.2	98.3	72.8	51.1	37.4	29.5	23.6	21.6
55°	6093.1	4167.6	247.8	137.7	82.6	59.0	41.3	29.5	21.6	15.7	13.8
57.5°	6728.4	4671.1	226.2	114.1	66.9	47.2	31.5	21.6	15.7	9.8	7.9
60°	7422.7	5025.2	198.6	90.5	55.1	35.4	23.6	15.7	11.8	5.9	5.9
62.5°	8138.6	5440.2	163.2	70.8	43.3	27.5	17.7	11.8	7.9	2.0	2.0
65°	9133.8	5764.7	125.9	55.1	33.4	19.7	13.8	9.8	3.9	0.0	0.0
67.5°	9415.1	5605.4	92.4	43.3	23.6	13.8	9.8	5.9	2.0	0.0	0.0
69°	9133.8	5048.8	80.6	37.4	19.7	11.8	7.9	3.9	2.0	0.0	0.0
70°	8620.5	4616.1	70.8	31.5	17.7	11.8	5.9	3.9	2.0	0.0	0.0
72.5°	7210.3	3540.2	55.1	23.6	13.8	9.8	5.9	3.9	0.0	0.0	0.0
75°	5288.7	2187.1	41.3	17.7	11.8	7.9	5.9	3.9	0.0	0.0	0.0
77.5°	2834.2	798.5	29.5	11.8	7.9	5.9	5.9	3.9	0.0	0.0	0.0
80°	776.9	236.0	21.6	7.9	5.9	3.9	3.9	2.0	0.0	0.0	0.0
82.5°	212.4	61.0	13.8	7.9	5.9	3.9	2.0	0.0	0.0	0.0	0.0
85°	114.1	23.6	7.9	5.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	59.0	7.9	5.9	3.9	3.9	2.0	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)