

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: P484573

Luminaire Tested: **IFLD-M-SA4B-830-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484573  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-830-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

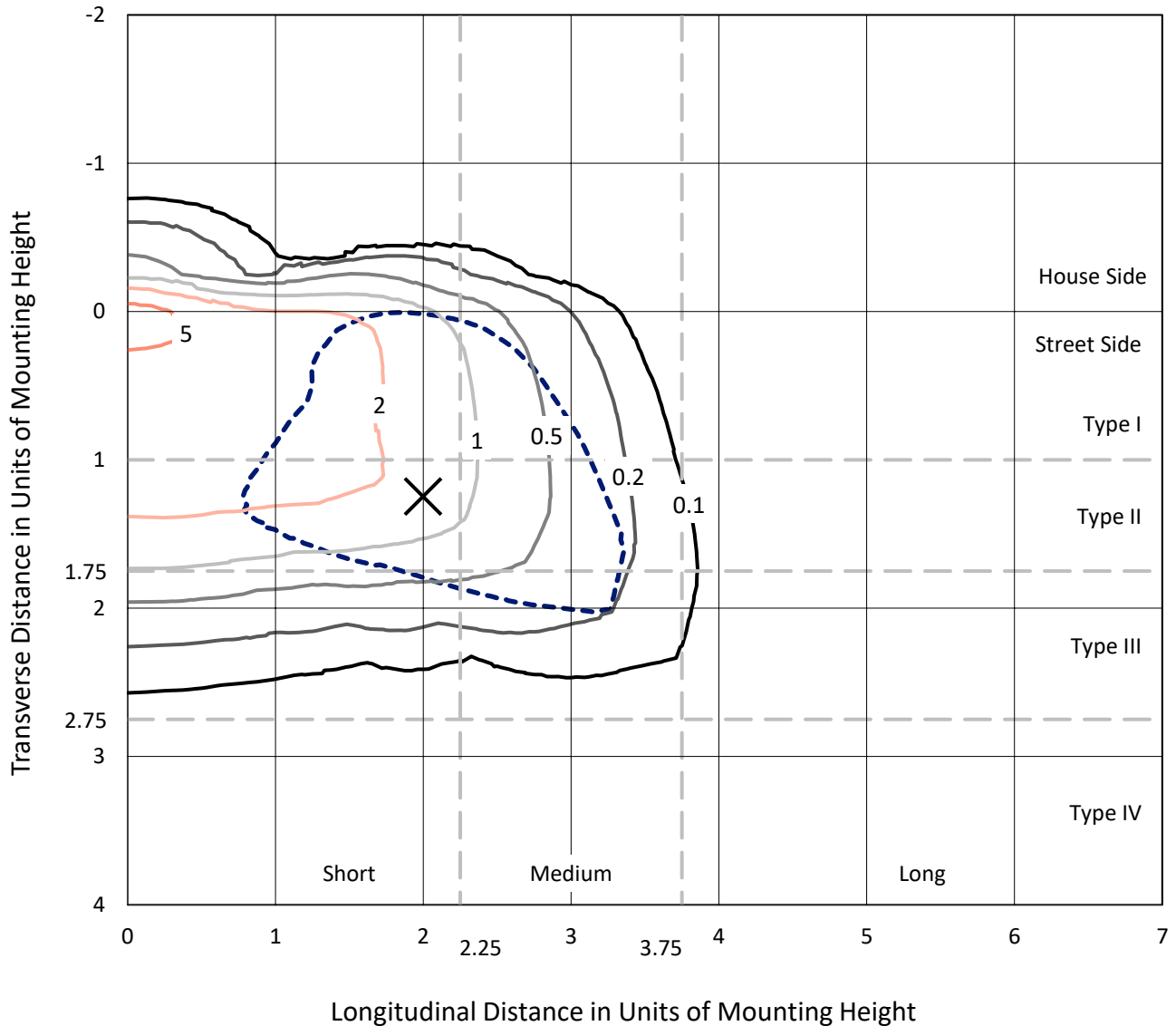
Lumens per Lamp: N/A  
Luminaire Lumens: 15177.3 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 166.1  
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

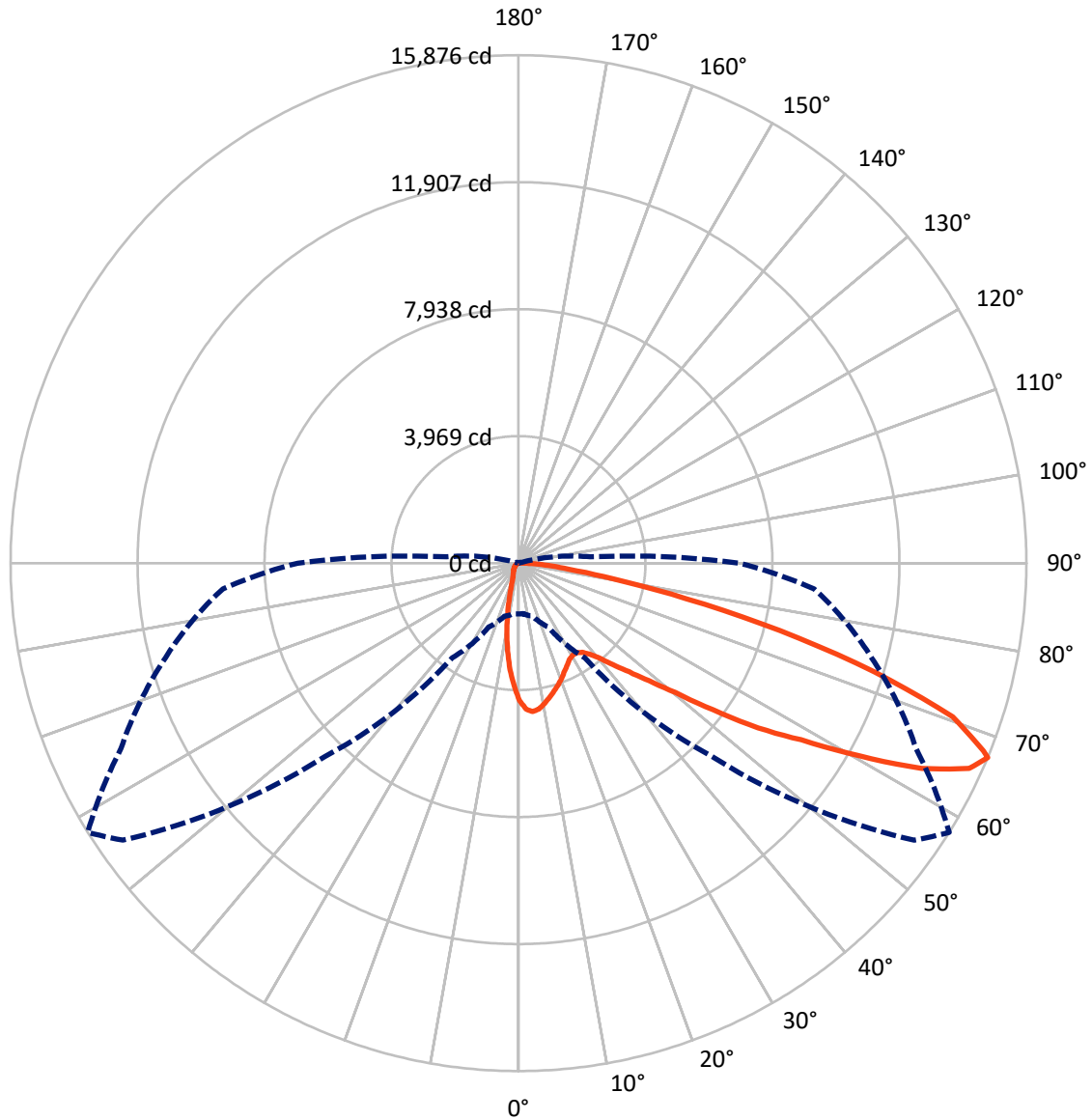
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1254.5	0.0	1254.5
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	13922.8	0.0	13922.8
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	15177.3	0.0	15177.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.2	2.2
10°-20°	707.7	4.7
20°-30°	938.9	6.2
30°-40°	1301.0	8.6
40°-50°	2122.9	14.0
50°-60°	3731.4	24.6
60°-70°	4132.9	27.2
70°-80°	1712.7	11.3
80°-90°	188.5	1.2
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°	15177.3	100.0
0°-180°	15177.3	100.0



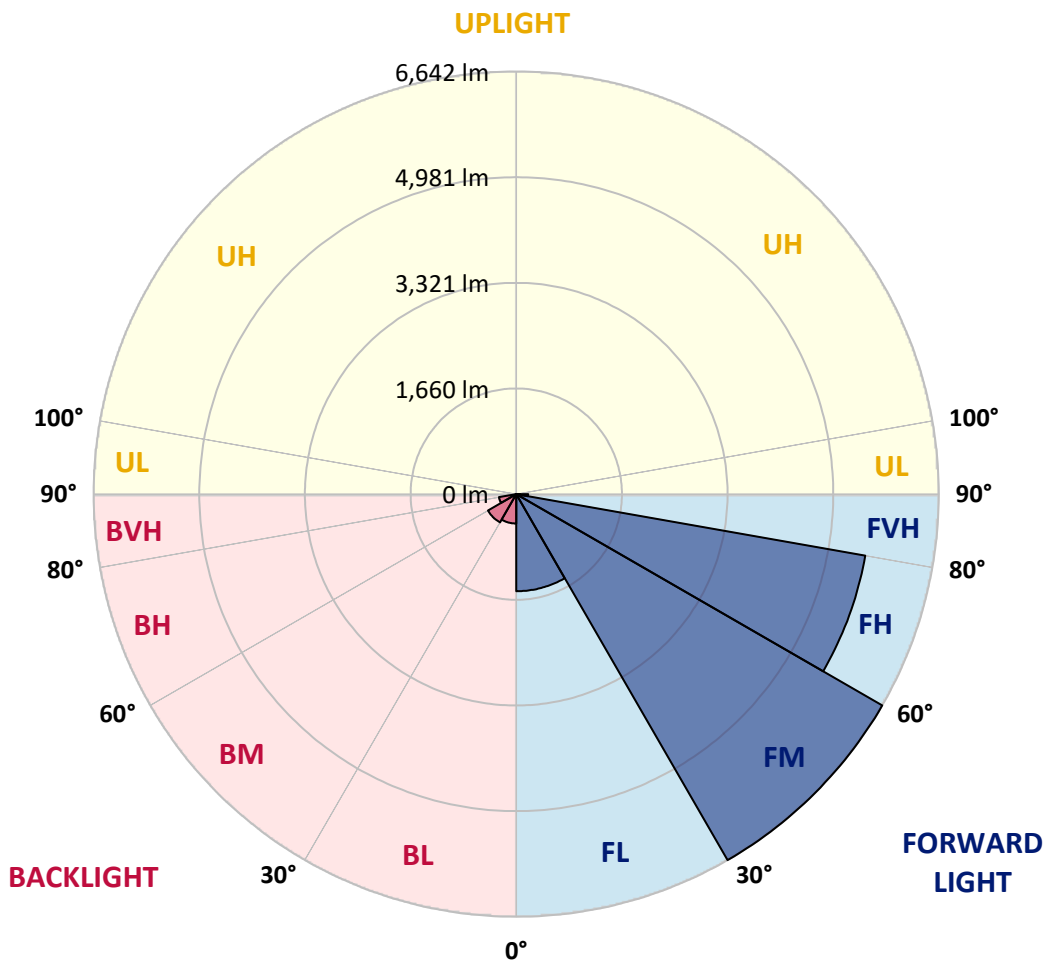
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1525.7	10.1			
FM (30°-60°)	6641.9	43.8			
FH (60°-80°)	5569.7	36.7			G3/7500
FVH (80°-90°)	185.4	1.2			G2/225
BL (0°-30°)	462.0	3.0	B1/500		
BM (30°-60°)	513.5	3.4	B1/1000		
BH (60°-80°)	275.8	1.8	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9
2.5°	4678.7	4694.9	4709.0	4682.8	4704.9	4672.7	4590.1	4571.9	4557.8	4434.9	4364.4
5°	4676.7	4658.6	4672.7	4684.8	4654.6	4678.7	4658.6	4660.6	4606.2	4495.4	4297.9
7.5°	4364.4	4356.3	4364.4	4422.8	4489.3	4541.7	4571.9	4602.2	4565.9	4400.7	4209.3
10°	3943.3	3983.6	4005.7	4110.5	4213.3	4310.0	4404.7	4461.1	4451.1	4384.6	4112.5
12.5°	3649.1	3637.0	3717.6	3786.1	3888.9	4084.3	4249.6	4301.9	4362.4	4269.7	3985.6
15°	3377.1	3344.8	3393.2	3512.1	3687.4	3842.5	4074.3	4152.8	4229.4	4253.6	3917.1
17.5°	3117.1	3133.3	3183.6	3290.4	3455.7	3673.3	3890.9	4003.7	4187.1	4154.9	3814.3
20°	2992.2	3026.5	3044.6	3099.0	3213.9	3431.5	3755.9	3846.6	4042.0	4152.8	3713.6
22.5°	2998.3	2998.3	2955.9	2988.2	3093.0	3262.2	3572.5	3673.3	3983.6	4048.1	3622.9
25°	3062.7	3022.4	3024.5	2986.2	3030.5	3123.2	3407.3	3530.2	3864.7	4058.1	3574.5
27.5°	3111.1	3103.0	3091.0	3080.9	3024.5	3038.6	3298.5	3399.2	3818.4	4046.0	3500.0
30°	3286.4	3250.1	3238.0	3215.9	3141.3	3072.8	3211.8	3338.8	3782.1	4074.3	3457.7
32.5°	3433.5	3439.5	3449.6	3385.1	3320.7	3151.4	3236.0	3336.8	3755.9	4138.7	3500.0
35°	3618.9	3645.1	3649.1	3628.9	3560.4	3393.2	3336.8	3423.4	3800.2	4253.6	3504.0
37.5°	3901.0	3872.8	3949.3	3957.4	3909.0	3687.4	3570.5	3604.8	3931.2	4436.9	3657.2
40°	4084.3	4118.6	4261.6	4350.3	4267.7	4066.2	3909.0	3903.0	4120.6	4725.1	3846.6
42.5°	4287.8	4364.4	4521.6	4713.0	4702.9	4515.5	4356.3	4330.2	4457.1	5142.2	4146.8
45°	4565.9	4634.4	4854.0	5142.2	5299.3	5140.2	4900.4	4848.0	4866.1	5710.4	4658.6
47.5°	5027.3	5009.2	5325.5	5609.7	5867.6	5744.7	5641.9	5488.8	5474.7	6379.4	5365.8
50°	5549.2	5545.2	5827.3	6149.7	6447.9	6687.7	6516.4	6349.1	6353.2	7288.1	6198.0
52.5°	6044.9	6123.5	6427.7	6748.1	7259.9	7517.8	7683.0	7616.6	7296.2	8100.1	7088.6
55°	6306.8	6375.3	6677.6	7229.7	8037.7	8700.6	9147.9	9091.5	8472.9	9014.9	7967.2
57.5°	6059.0	6105.3	6514.4	7237.7	8581.7	10060.7	10489.9	10419.4	9690.0	9714.1	9029.0
60°	5021.3	5093.8	5702.3	6550.6	8370.2	11108.5	12337.6	12230.8	10798.2	10598.7	9712.1
62.5°	3477.8	3526.2	4025.9	5081.7	7366.7	11473.2	14082.6	14141.0	11966.9	11287.8	9915.6
65°	2252.7	2248.7	2534.8	3250.1	5220.8	10369.0	15114.2	15476.9	13095.2	11392.6	9853.2
67°	1591.8	1585.8	1720.8	2204.4	3614.8	8543.4	15096.1	15875.9	13707.8	11422.8	9274.9
67.5°	1468.9	1462.9	1591.8	2027.1	3262.2	7945.0	14870.4	15670.4	13923.4	11380.5	9021.0
70°	1140.5	1124.3	1172.7	1396.4	1900.1	5138.2	12726.5	14394.9	13476.1	10324.7	7203.5
72.5°	824.1	842.3	918.8	1146.5	1491.1	2764.5	9700.0	11640.4	11255.6	7781.8	4578.0
75°	574.3	590.4	713.3	934.9	1368.2	1676.4	6558.7	8442.7	7840.2	4295.9	1950.5
77.5°	300.2	320.4	455.4	747.6	1243.2	1297.6	3919.1	5353.8	4154.9	1529.4	538.0
80°	139.0	149.1	227.7	529.9	1039.7	1140.5	2285.0	2978.1	1662.3	342.5	185.4
82.5°	60.4	66.5	104.8	304.3	737.5	997.4	1414.5	1561.6	602.5	110.8	114.9
85°	12.1	14.1	40.3	161.2	356.6	604.5	993.4	926.9	302.2	54.4	90.7
87.5°	0.0	0.0	10.1	46.3	96.7	179.3	421.1	421.1	92.7	28.2	34.3
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°	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9	4299.9
2.5°	4301.9	4229.4	4070.2	3923.1	3818.4	3699.5	3542.3	3471.8	3445.6	3409.3	3354.9
5°	4189.1	4100.4	3828.4	3554.4	3254.2	3026.5	2784.7	2643.6	2536.8	2470.3	2448.2
7.5°	4029.9	3848.6	3481.9	3042.6	2653.7	2315.2	1948.5	1700.6	1541.4	1477.0	1416.5
10°	3903.0	3667.2	3109.1	2563.0	2045.2	1549.5	1136.4	918.8	753.6	691.1	683.1
12.5°	3737.8	3455.7	2760.5	2073.4	1422.6	922.9	628.7	546.1	499.7	491.7	485.6
15°	3600.7	3264.2	2430.0	1605.9	920.8	576.3	489.6	469.5	457.4	453.4	455.4
17.5°	3508.0	3058.7	2091.5	1168.7	606.5	471.5	451.4	439.3	433.2	431.2	425.2
20°	3324.7	2885.4	1757.0	818.1	473.5	435.2	419.1	409.0	403.0	401.0	399.0
22.5°	3219.9	2665.8	1422.6	570.2	421.1	394.9	382.8	374.8	364.7	358.7	356.6
25°	3115.1	2504.6	1124.3	443.3	382.8	364.7	346.6	336.5	320.4	312.3	310.3
27.5°	2992.2	2345.4	866.4	384.9	344.6	326.4	308.3	292.2	272.0	264.0	259.9
30°	2921.7	2190.3	652.8	344.6	316.3	292.2	270.0	249.9	227.7	213.6	209.6
32.5°	2885.4	2049.2	489.6	314.3	286.1	259.9	231.7	207.5	187.4	175.3	173.3
35°	2841.1	1912.2	384.9	286.1	257.9	229.7	201.5	177.3	157.2	147.1	143.1
37.5°	2887.4	1831.6	320.4	264.0	235.8	203.5	173.3	149.1	133.0	122.9	120.9
40°	3014.4	1765.1	278.1	243.8	213.6	179.3	151.1	126.9	112.8	104.8	100.7
42.5°	3209.8	1765.1	251.9	223.7	193.4	157.2	129.0	110.8	96.7	88.7	86.6
45°	3564.5	1819.5	229.7	203.5	169.3	135.0	110.8	92.7	78.6	70.5	68.5
47.5°	4062.2	1944.4	211.6	185.4	151.1	118.9	96.7	78.6	64.5	56.4	54.4
50°	4731.1	2228.5	193.4	163.2	135.0	102.8	80.6	62.5	50.4	42.3	40.3
52.5°	5565.3	2631.5	175.3	151.1	114.9	86.6	64.5	50.4	38.3	32.2	30.2
55°	6447.9	3125.2	153.1	135.0	98.7	72.5	52.4	38.3	28.2	24.2	22.2
57.5°	7336.5	3506.0	135.0	116.9	80.6	58.4	42.3	30.2	20.1	16.1	14.1
60°	7808.0	3542.3	116.9	96.7	64.5	46.3	32.2	22.2	14.1	10.1	8.1
62.5°	7880.5	3219.9	100.7	78.6	52.4	36.3	22.2	16.1	8.1	4.0	4.0
65°	7507.7	2683.9	86.6	62.5	40.3	26.2	16.1	10.1	4.0	2.0	0.0
67°	6903.3	2248.7	74.6	52.4	32.2	20.1	12.1	6.0	2.0	0.0	0.0
67.5°	6669.5	2127.8	70.5	48.4	30.2	18.1	10.1	6.0	2.0	0.0	0.0
70°	5176.4	1519.3	52.4	34.3	22.2	14.1	8.1	4.0	0.0	0.0	0.0
72.5°	3171.5	888.6	40.3	24.2	16.1	10.1	6.0	2.0	0.0	0.0	0.0
75°	1329.9	306.3	34.3	18.1	12.1	6.0	4.0	2.0	0.0	0.0	0.0
77.5°	346.6	114.9	24.2	12.1	8.1	6.0	4.0	2.0	0.0	0.0	0.0
80°	141.0	52.4	16.1	8.1	8.1	6.0	4.0	2.0	0.0	0.0	0.0
82.5°	92.7	24.2	10.1	8.1	6.0	4.0	2.0	0.0	0.0	0.0	0.0
85°	70.5	14.1	6.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	30.2	8.1	6.0	4.0	4.0	0.0	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)