

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: P484358

Luminaire Tested: **IFLD-S-SA3B-735-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484358  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-735-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (48) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

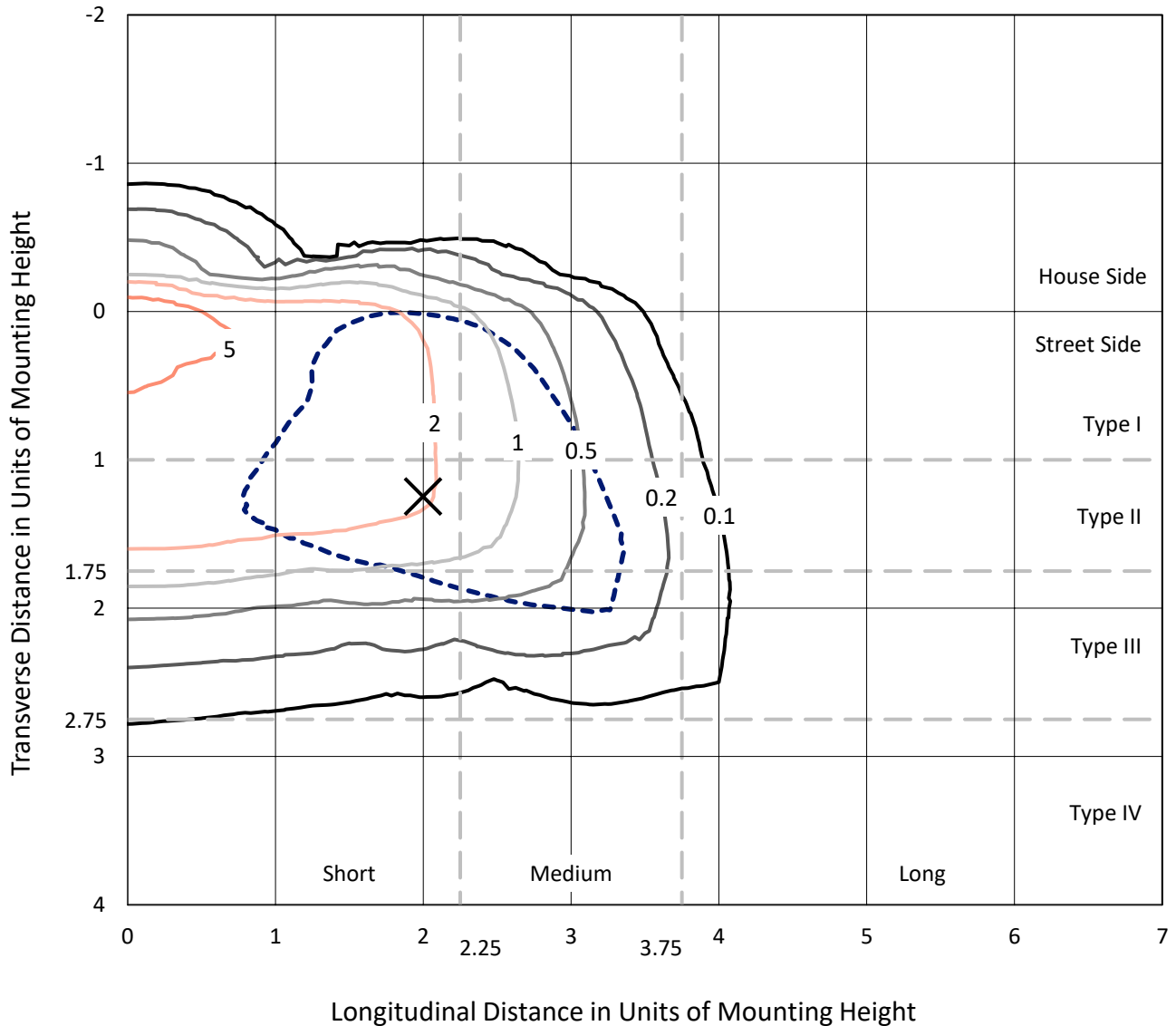
Lumens per Lamp: N/A  
Luminaire Lumens: 14035.3 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 122.4  
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

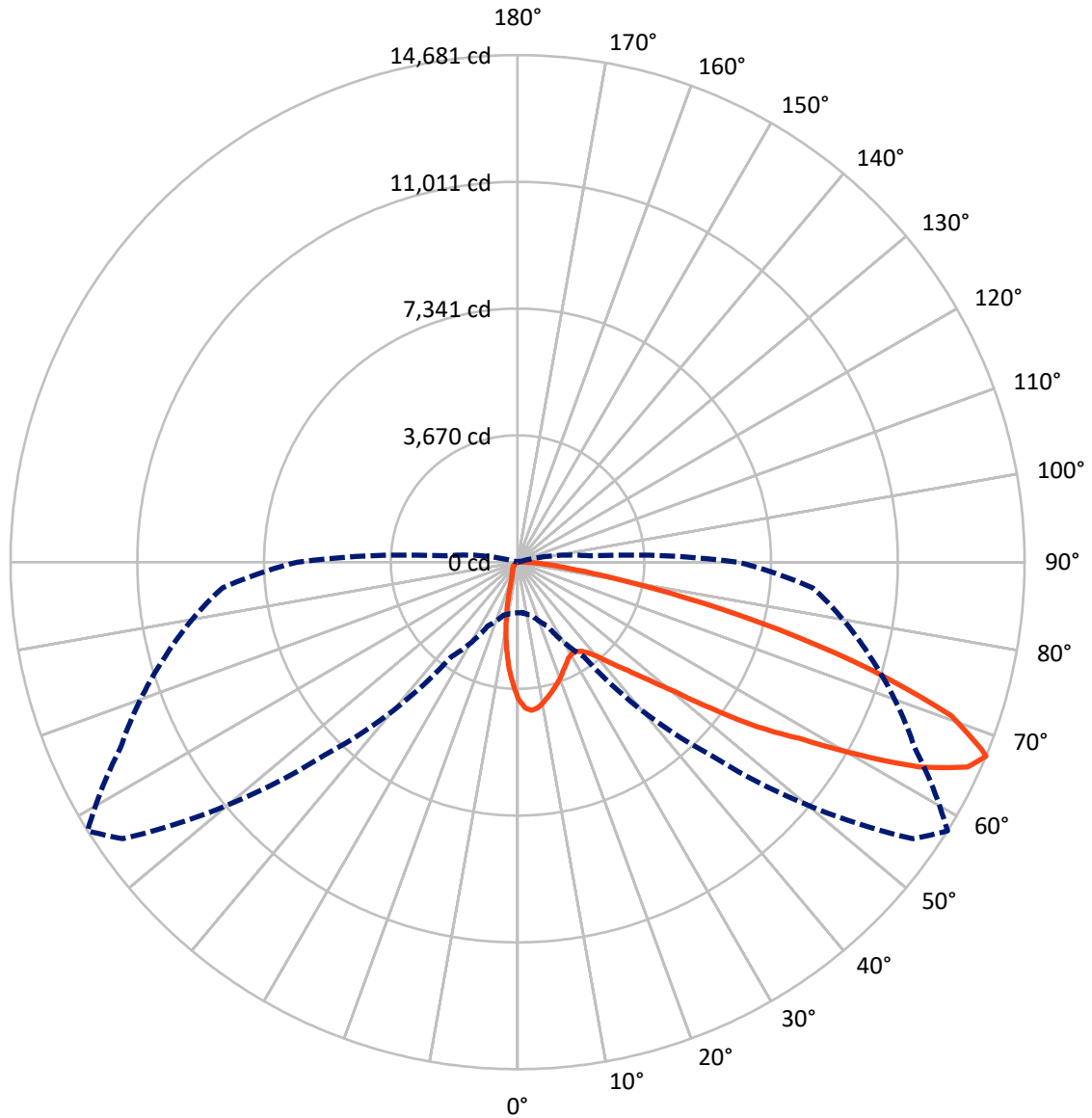
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 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	1160.1	0.0	1160.1
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	12875.2	0.0	12875.2
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	14035.3	0.0	14035.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.5	2.2
10°-20°	654.4	4.7
20°-30°	868.3	6.2
30°-40°	1203.2	8.6
40°-50°	1963.2	14.0
50°-60°	3450.7	24.6
60°-70°	3821.9	27.2
70°-80°	1583.8	11.3
80°-90°	174.3	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°	14035.3	100.0
0°-180°	14035.3	100.0

**Coefficient of Utilization**



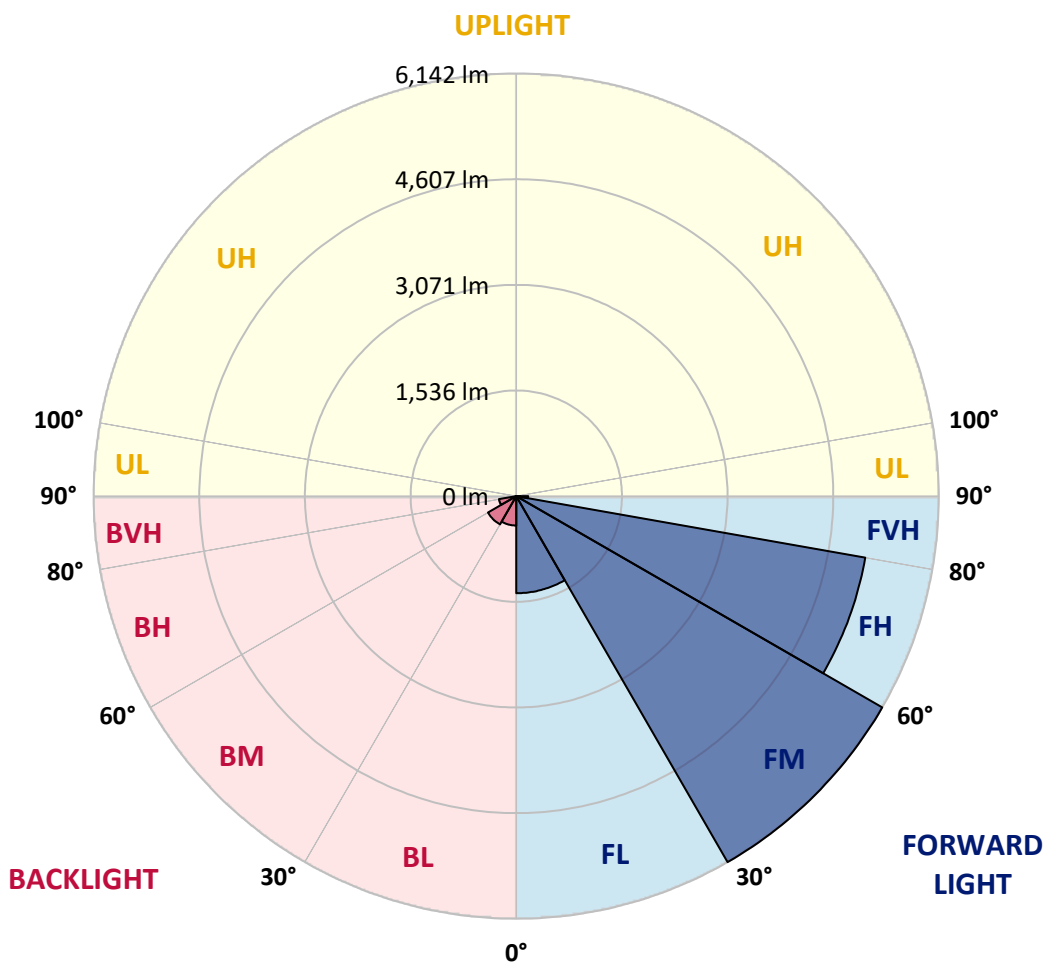
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1410.9	10.1			
FM (30°-60°)	6142.1	43.8			
FH (60°-80°)	5150.7	36.7			G3/7500
FVH (80°-90°)	171.5	1.2			G2/225
BL (0°-30°)	427.3	3.0	B1/500		
BM (30°-60°)	474.9	3.4	B1/1000		
BH (60°-80°)	255.1	1.8	B1/500		G1/500
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	3976.4	3976.4	3976.4	3976.4	3976.4	3976.4	3976.4	3976.4	3976.4	3976.4	3976.4
2.5°	4326.7	4341.6	4354.7	4330.4	4350.9	4321.1	4244.7	4228.0	4214.9	4101.2	4036.0
5°	4324.8	4308.1	4321.1	4332.3	4304.4	4326.7	4308.1	4309.9	4259.6	4157.1	3974.5
7.5°	4036.0	4028.6	4036.0	4090.1	4151.6	4200.0	4228.0	4255.9	4222.4	4069.6	3892.5
10°	3646.6	3683.9	3704.4	3801.2	3896.3	3985.7	4073.3	4125.5	4116.2	4054.7	3803.1
12.5°	3374.5	3363.4	3437.9	3501.2	3596.3	3777.0	3929.8	3978.3	4034.2	3948.5	3685.7
15°	3123.0	3093.2	3137.9	3247.8	3409.9	3553.4	3767.7	3840.4	3911.2	3933.5	3622.4
17.5°	2882.6	2897.5	2944.1	3042.9	3195.7	3396.9	3598.1	3702.5	3872.1	3842.2	3527.3
20°	2767.1	2798.8	2815.5	2865.8	2972.1	3173.3	3473.3	3557.1	3737.9	3840.4	3434.2
22.5°	2772.7	2772.7	2733.5	2763.4	2860.3	3016.8	3303.7	3396.9	3683.9	3743.5	3350.3
25°	2832.3	2795.0	2796.9	2761.5	2802.5	2888.2	3150.9	3264.6	3573.9	3752.8	3305.6
27.5°	2877.0	2869.6	2858.4	2849.1	2796.9	2809.9	3050.3	3143.5	3531.1	3741.6	3236.6
30°	3039.1	3005.6	2994.4	2973.9	2905.0	2841.6	2970.2	3087.6	3497.5	3767.7	3197.5
32.5°	3175.2	3180.7	3190.1	3130.4	3070.8	2914.3	2992.5	3085.7	3473.3	3827.3	3236.6
35°	3346.6	3370.8	3374.5	3355.9	3292.5	3137.9	3085.7	3165.8	3514.3	3933.5	3240.4
37.5°	3607.5	3581.4	3652.2	3659.6	3614.9	3409.9	3301.9	3333.5	3635.4	4103.1	3382.0
40°	3777.0	3808.7	3941.0	4023.0	3946.6	3760.3	3614.9	3609.3	3810.6	4369.6	3557.1
42.5°	3965.2	4036.0	4181.4	4358.4	4349.1	4175.8	4028.6	4004.4	4121.7	4755.3	3834.8
45°	4222.4	4285.7	4488.8	4755.3	4900.6	4753.4	4531.7	4483.2	4500.0	5280.7	4308.1
47.5°	4649.1	4632.3	4924.8	5187.6	5426.1	5312.4	5217.4	5075.8	5062.7	5899.4	4962.1
50°	5131.7	5128.0	5388.8	5687.0	5962.7	6184.5	6026.1	5871.4	5875.2	6739.8	5731.7
52.5°	5590.1	5662.7	5944.1	6240.4	6713.7	6952.2	7105.0	7043.5	6747.2	7490.7	6555.3
55°	5832.3	5895.7	6175.2	6685.7	7432.9	8046.0	8459.6	8407.5	7835.4	8336.7	7367.7
57.5°	5603.1	5646.0	6024.2	6693.2	7936.0	9303.7	9700.6	9635.4	8960.9	8983.2	8349.7
60°	4643.5	4710.6	5273.3	6057.8	7740.4	10272.7	11409.3	11310.6	9985.7	9801.3	8981.4
62.5°	3216.2	3260.9	3723.0	4699.4	6812.4	10609.9	13023.0	13077.0	11066.5	10438.5	9169.6
65°	2083.2	2079.5	2344.1	3005.6	4828.0	9588.8	13977.0	14312.4	12109.9	10535.4	9111.8
67°	1472.1	1466.5	1591.3	2038.5	3342.9	7900.6	13960.3	14681.4	12676.4	10563.4	8577.0
67.5°	1358.4	1352.8	1472.1	1874.5	3016.8	7347.2	13751.6	14491.3	12875.8	10524.2	8342.2
70°	1054.7	1039.8	1084.5	1291.3	1757.1	4751.6	11769.0	13311.8	12462.1	9547.8	6661.5
72.5°	762.1	778.9	849.7	1060.2	1378.9	2556.5	8970.2	10764.6	10408.7	7196.3	4233.5
75°	531.1	546.0	659.6	864.6	1265.2	1550.3	6065.2	7807.5	7250.3	3972.7	1803.7
77.5°	277.6	296.3	421.1	691.3	1149.7	1200.0	3624.2	4950.9	3842.2	1414.3	497.5
80°	128.6	137.9	210.6	490.1	961.5	1054.7	2113.0	2754.0	1537.3	316.8	171.4
82.5°	55.9	61.5	96.9	281.4	682.0	922.4	1308.1	1444.1	557.1	102.5	106.2
85°	11.2	13.0	37.3	149.1	329.8	559.0	918.6	857.1	279.5	50.3	83.9
87.5°	0.0	0.0	9.3	42.9	89.4	165.8	389.4	389.4	85.7	26.1	31.7
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°	3976.4	3976.4	3976.4	3976.4	3976.4	3976.4	3976.4	3976.4	3976.4	3976.4	3976.4
2.5°	3978.3	3911.2	3764.0	3628.0	3531.1	3421.1	3275.8	3210.6	3186.3	3152.8	3102.5
5°	3873.9	3791.9	3540.4	3287.0	3009.3	2798.8	2575.2	2444.7	2346.0	2284.5	2264.0
7.5°	3726.7	3559.0	3219.9	2813.7	2454.0	2141.0	1801.9	1572.7	1425.5	1365.8	1309.9
10°	3609.3	3391.3	2875.2	2370.2	1891.3	1432.9	1050.9	849.7	696.9	639.1	631.7
12.5°	3456.5	3195.7	2552.8	1917.4	1315.5	853.4	581.4	505.0	462.1	454.7	449.1
15°	3329.8	3018.6	2247.2	1485.1	851.6	532.9	452.8	434.2	423.0	419.3	421.1
17.5°	3244.1	2828.6	1934.2	1080.7	560.9	436.0	417.4	406.2	400.6	398.8	393.2
20°	3074.5	2668.3	1624.8	756.5	437.9	402.5	387.6	378.3	372.7	370.8	368.9
22.5°	2977.6	2465.2	1315.5	527.3	389.4	365.2	354.0	346.6	337.3	331.7	329.8
25°	2880.7	2316.2	1039.8	409.9	354.0	337.3	320.5	311.2	296.3	288.8	287.0
27.5°	2767.1	2168.9	801.2	355.9	318.6	301.9	285.1	270.2	251.6	244.1	240.4
30°	2701.9	2025.5	603.7	318.6	292.5	270.2	249.7	231.1	210.6	197.5	193.8
32.5°	2668.3	1895.0	452.8	290.7	264.6	240.4	214.3	191.9	173.3	162.1	160.2
35°	2627.3	1768.3	355.9	264.6	238.5	212.4	186.3	164.0	145.3	136.0	132.3
37.5°	2670.2	1693.8	296.3	244.1	218.0	188.2	160.2	137.9	123.0	113.7	111.8
40°	2787.6	1632.3	257.1	225.5	197.5	165.8	139.8	117.4	104.3	96.9	93.2
42.5°	2968.3	1632.3	232.9	206.8	178.9	145.3	119.3	102.5	89.4	82.0	80.1
45°	3296.3	1682.6	212.4	188.2	156.5	124.8	102.5	85.7	72.7	65.2	63.4
47.5°	3756.5	1798.1	195.7	171.4	139.8	109.9	89.4	72.7	59.6	52.2	50.3
50°	4375.2	2060.9	178.9	150.9	124.8	95.0	74.5	57.8	46.6	39.1	37.3
52.5°	5146.6	2433.5	162.1	139.8	106.2	80.1	59.6	46.6	35.4	29.8	28.0
55°	5962.7	2890.1	141.6	124.8	91.3	67.1	48.4	35.4	26.1	22.4	20.5
57.5°	6784.5	3242.2	124.8	108.1	74.5	54.0	39.1	28.0	18.6	14.9	13.0
60°	7220.5	3275.8	108.1	89.4	59.6	42.9	29.8	20.5	13.0	9.3	7.5
62.5°	7287.6	2977.6	93.2	72.7	48.4	33.5	20.5	14.9	7.5	3.7	3.7
65°	6942.9	2482.0	80.1	57.8	37.3	24.2	14.9	9.3	3.7	1.9	0.0
67°	6383.9	2079.5	68.9	48.4	29.8	18.6	11.2	5.6	1.9	0.0	0.0
67.5°	6167.7	1967.7	65.2	44.7	28.0	16.8	9.3	5.6	1.9	0.0	0.0
70°	4787.0	1405.0	48.4	31.7	20.5	13.0	7.5	3.7	0.0	0.0	0.0
72.5°	2932.9	821.7	37.3	22.4	14.9	9.3	5.6	1.9	0.0	0.0	0.0
75°	1229.8	283.2	31.7	16.8	11.2	5.6	3.7	1.9	0.0	0.0	0.0
77.5°	320.5	106.2	22.4	11.2	7.5	5.6	3.7	1.9	0.0	0.0	0.0
80°	130.4	48.4	14.9	7.5	7.5	5.6	3.7	1.9	0.0	0.0	0.0
82.5°	85.7	22.4	9.3	7.5	5.6	3.7	1.9	0.0	0.0	0.0	0.0
85°	65.2	13.0	5.6	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	28.0	7.5	5.6	3.7	3.7	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)