

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: P481838

Luminaire Tested: **IFLD-S-SA6B-830-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481838  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-830-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

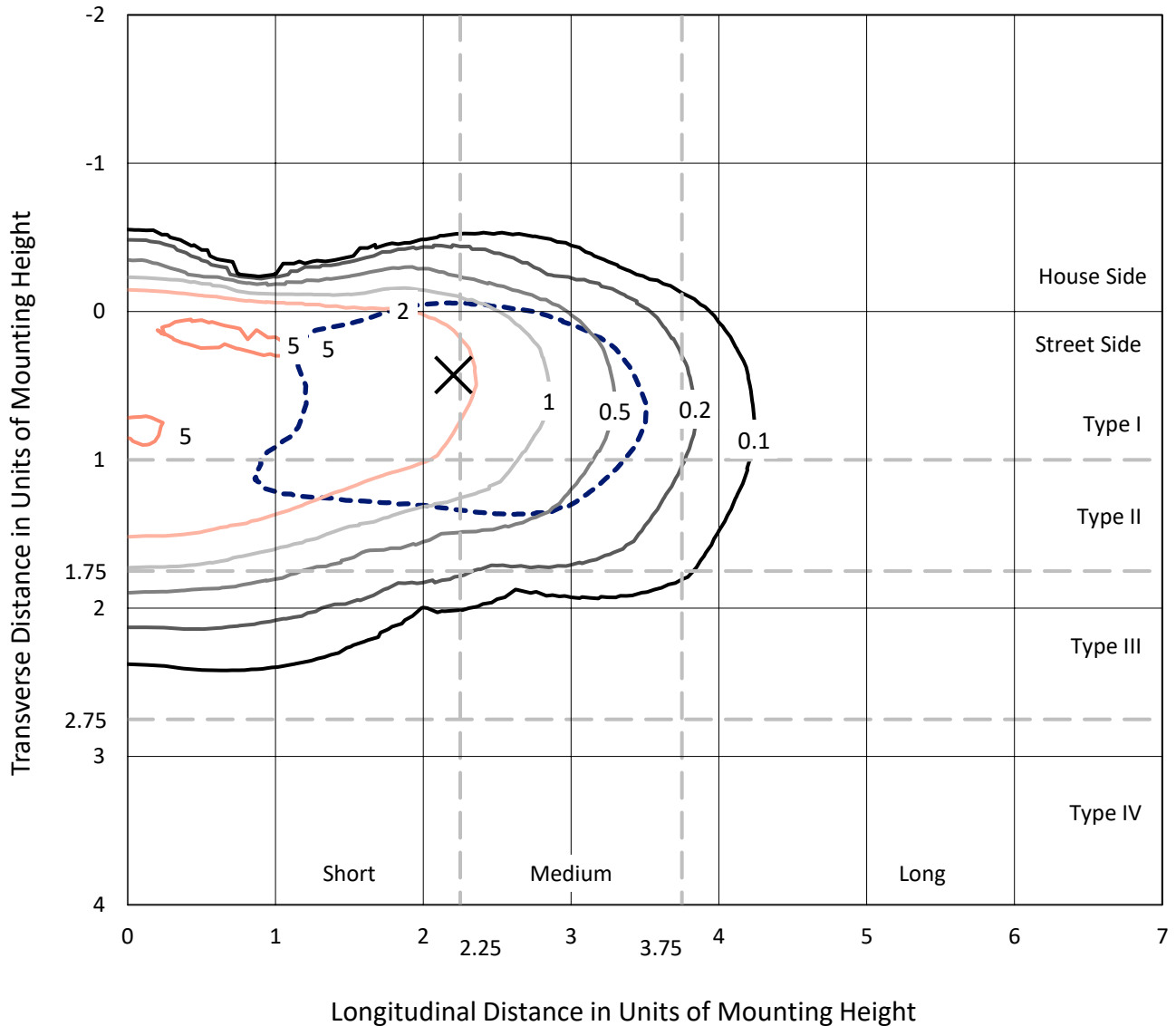
Lumens per Lamp: N/A  
Luminaire Lumens: 19100.6 lumens  
Efficiency: N/A  
Efficacy: 78.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 244.9  
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

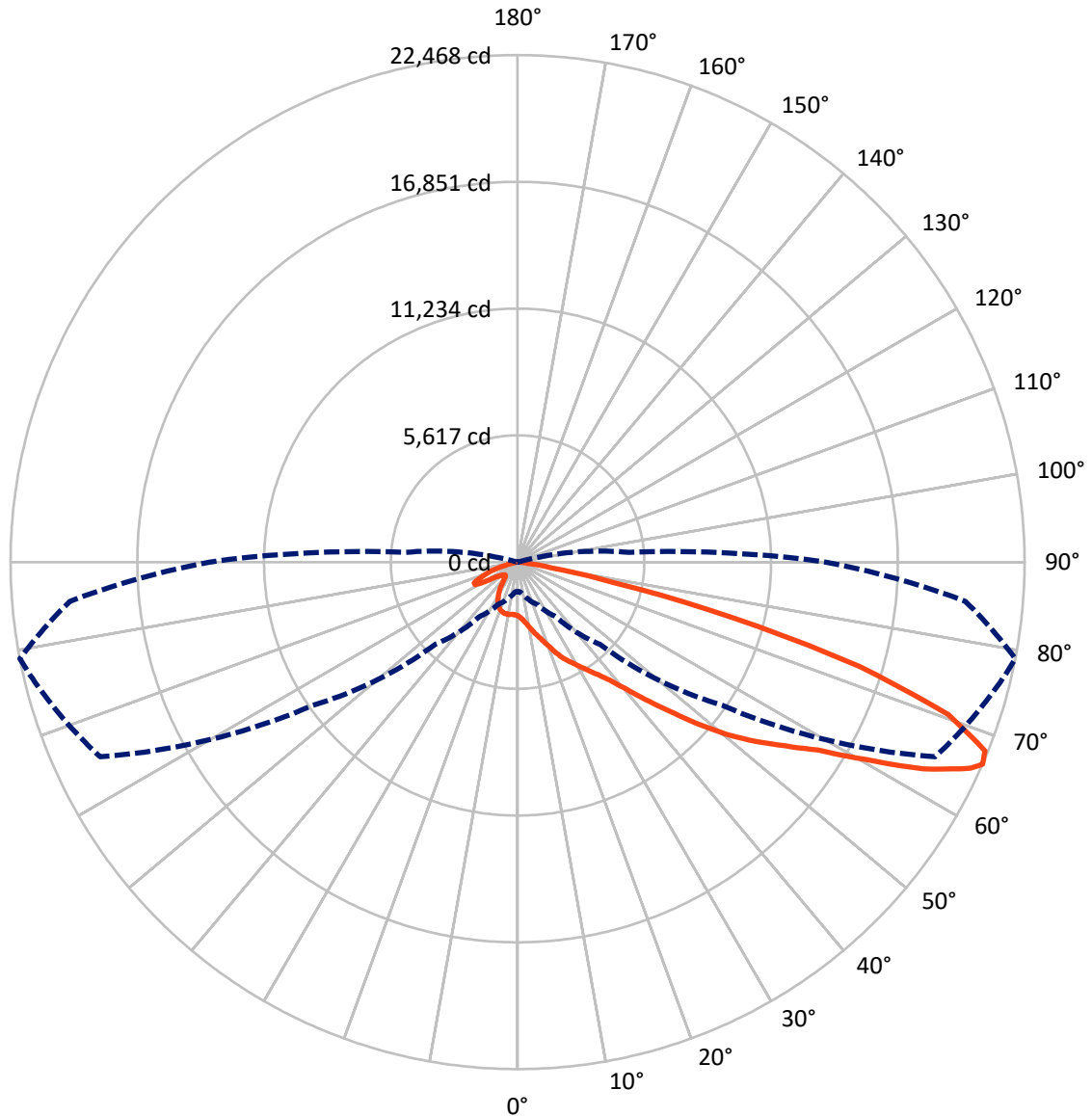
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1434.2	0.0	1434.2
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	17666.4	0.0	17666.4
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	19100.6	0.0	19100.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.7	1.2
10°-20°	618.5	3.2
20°-30°	1027.5	5.4
30°-40°	1764.8	9.2
40°-50°	3197.2	16.7
50°-60°	5053.9	26.5
60°-70°	5142.7	26.9
70°-80°	1961.2	10.3
80°-90°	109.9	0.6
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°	19100.6	100.0
0°-180°	19100.6	100.0

**Coefficient of Utilization**



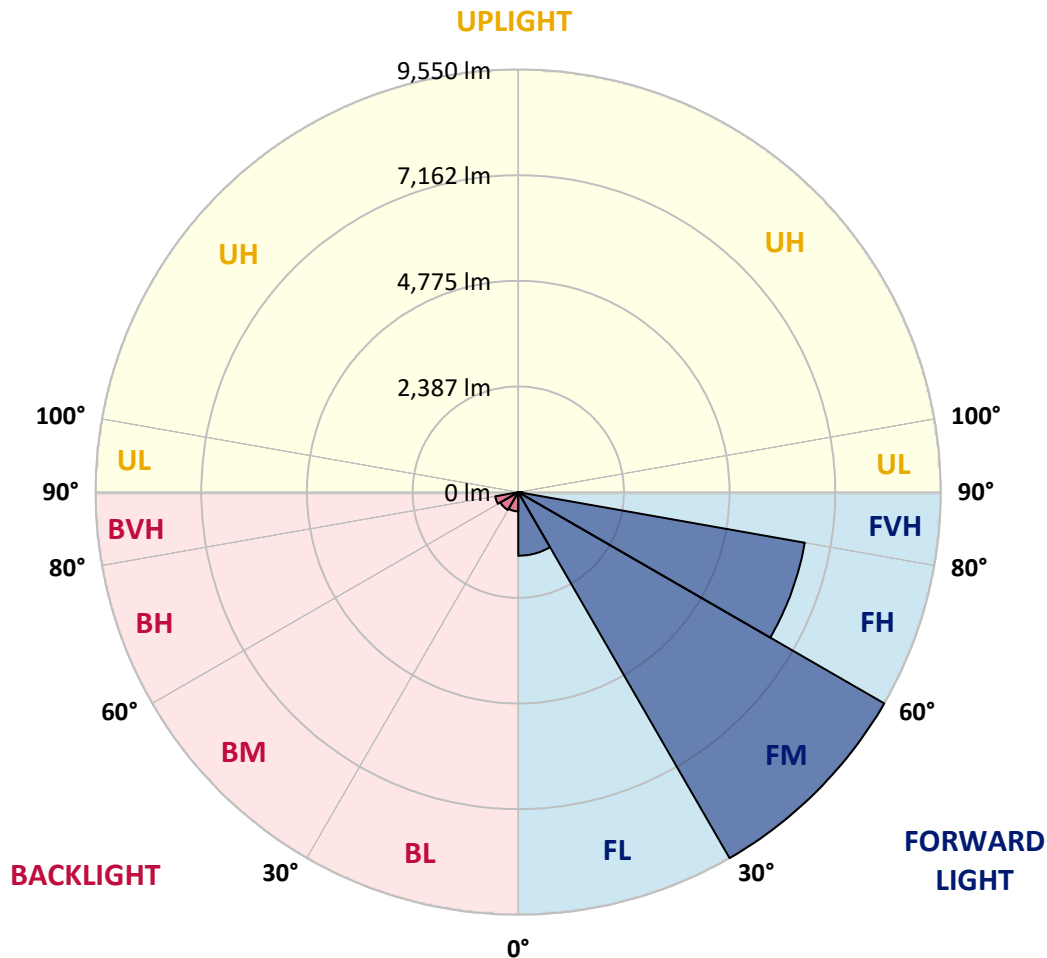
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1437.0	7.5			
FM (30°-60°)	9549.9	50.0			
FH (60°-80°)	6575.2	34.4			G3/7500
FVH (80°-90°)	104.3	0.5			G2/225
BL (0°-30°)	433.7	2.3	B1/500		
BM (30°-60°)	466.1	2.4	B1/1000		
BH (60°-80°)	528.7	2.8	B2/1000		G2/1000
BVH (80°-90°)	5.6	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3
2.5°	2691.4	2688.5	2676.7	2656.1	2629.6	2620.7	2582.5	2529.5	2500.0	2467.6	2452.9
5°	2876.9	2862.2	2897.5	2882.8	2888.7	2818.0	2770.9	2732.6	2620.7	2576.6	2505.9
7.5°	2918.2	2932.9	2929.9	2953.5	2977.1	3003.6	2971.2	2915.2	2803.3	2738.5	2662.0
10°	2918.2	2912.3	2935.8	2968.2	3035.9	3094.8	3183.2	3109.6	3024.2	2947.6	2809.2
12.5°	2865.2	2856.3	2879.9	2947.6	3068.3	3189.1	3286.2	3356.9	3236.2	3174.3	2994.7
15°	2703.2	2694.4	2791.5	2912.3	3071.3	3268.6	3471.8	3586.6	3504.1	3407.0	3206.7
17.5°	2503.0	2514.7	2617.8	2818.0	3071.3	3306.9	3566.0	3816.3	3804.5	3680.8	3471.8
20°	2435.2	2444.1	2547.1	2691.4	2980.0	3333.4	3713.2	4066.6	4137.2	3990.0	3716.2
22.5°	2564.8	2556.0	2564.8	2653.1	2918.2	3309.8	3810.4	4352.2	4478.8	4364.0	4037.1
25°	3006.5	3000.6	2927.0	2791.5	2882.8	3256.8	3860.5	4540.7	4832.2	4726.2	4296.3
27.5°	3654.3	3630.8	3515.9	3233.2	3047.7	3289.2	3942.9	4723.2	5141.4	5020.6	4528.9
30°	4349.3	4293.3	4143.1	3789.8	3474.7	3409.9	3990.0	4858.7	5485.9	5332.8	4732.1
32.5°	4829.2	4902.9	4855.7	4496.5	4013.6	3689.7	4066.6	5029.5	5803.9	5703.8	5079.5
35°	5571.3	5656.7	5459.4	5141.4	4655.5	4134.3	4228.5	5167.9	6292.7	6124.9	5403.5
37.5°	6507.7	6572.5	6431.1	5827.5	5315.1	4682.0	4561.3	5456.5	6713.8	6634.3	5818.7
40°	6978.8	7291.0	7090.7	6546.0	5995.3	5447.6	5111.9	5795.1	7447.0	7382.3	6392.9
42.5°	7629.6	7785.7	7682.6	7279.2	6705.0	6266.2	5792.1	6454.7	8336.3	8336.3	7170.2
45°	8318.7	8324.6	8318.7	7988.9	7479.4	7252.7	6710.9	7282.1	9293.3	9399.4	8100.8
47.5°	8884.0	9060.7	9046.0	8848.7	8454.1	8368.7	7629.6	8224.4	10494.8	10680.3	9007.7
50°	9175.6	9372.9	9431.7	9534.8	9517.1	9696.8	8633.7	9316.9	11531.3	11987.7	10173.8
52.5°	9096.1	9110.8	9473.0	9879.3	10527.2	11030.7	9844.0	10556.6	12744.5	13195.0	11074.9
55°	8445.3	8389.3	9134.3	9599.6	10939.4	11846.4	11519.5	12102.6	13689.7	14375.8	12005.4
57.5°	7017.1	7031.9	7720.9	8666.1	10633.2	12170.3	13309.9	14122.6	15014.8	15706.8	13312.8
60°	4844.0	4826.3	5597.8	6690.3	8834.0	11566.6	14340.5	16740.4	16787.5	17768.1	15659.7
62.5°	2723.8	2729.7	3315.7	4249.1	6180.8	9452.4	14290.4	19520.2	19319.9	20179.8	18327.6
65°	1543.0	1581.3	1984.7	2517.7	3701.4	6345.7	12291.0	20627.3	21272.2	22037.8	19947.1
66°	1304.5	1331.0	1675.5	2078.9	2953.5	5147.3	11063.1	20412.4	21884.7	22467.8	19914.7
67.5°	1010.0	1045.4	1333.9	1649.0	2167.3	3563.0	8904.7	19343.5	21996.6	22338.2	19352.3
70°	692.0	715.6	936.4	1251.5	1481.2	1822.7	5323.9	15992.5	19958.9	20247.5	16819.9
72.5°	485.9	497.6	656.7	948.2	1139.6	1042.4	2641.4	11378.2	15274.0	15836.4	13083.1
75°	350.4	362.2	450.5	680.2	889.3	683.2	1210.3	7267.4	9367.0	9808.7	7879.9
77.5°	253.2	268.0	306.2	438.8	644.9	480.0	594.8	3795.7	4417.0	4340.4	3389.3
80°	153.1	167.8	226.7	282.7	471.1	338.6	326.9	1584.2	1566.6	1487.1	1066.0
82.5°	70.7	82.5	120.7	191.4	329.8	235.6	156.1	565.4	494.7	453.5	300.4
85°	20.6	26.5	70.7	144.3	167.8	114.8	94.2	194.3	203.2	173.7	100.1
87.5°	0.0	2.9	32.4	35.3	50.1	38.3	35.3	50.1	94.2	76.6	32.4
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°	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3
2.5°	2399.9	2379.3	2329.2	2252.7	2184.9	2149.6	2099.5	2055.4	2031.8	2028.9	2025.9
5°	2458.8	2402.8	2282.1	2143.7	2040.7	1928.8	1852.2	1796.2	1743.2	1693.2	1722.6
7.5°	2538.3	2450.0	2252.7	2073.0	1849.2	1705.0	1569.5	1490.0	1442.9	1398.7	1392.8
10°	2662.0	2550.1	2232.1	1908.1	1652.0	1439.9	1301.5	1186.7	1121.9	1045.4	1074.8
12.5°	2829.8	2629.6	2155.5	1758.0	1428.2	1204.4	1007.1	821.6	718.5	639.0	641.9
15°	2997.7	2735.6	2084.8	1575.4	1225.0	930.5	641.9	515.3	485.9	468.2	474.1
17.5°	3162.6	2821.0	1975.9	1389.9	992.4	591.9	468.2	441.7	427.0	409.3	409.3
20°	3362.8	2876.9	1840.4	1219.1	683.2	438.8	400.5	382.8	359.2	335.7	338.6
22.5°	3557.2	2924.0	1684.3	1001.2	459.4	379.9	335.7	312.1	291.5	268.0	268.0
25°	3751.5	2938.8	1481.2	718.5	371.0	303.3	262.1	229.7	209.1	188.5	191.4
27.5°	3884.0	2847.5	1289.8	459.4	297.4	229.7	182.6	156.1	138.4	117.8	117.8
30°	3960.6	2679.6	1083.6	323.9	223.8	156.1	109.0	82.5	64.8	50.1	47.1
32.5°	4037.1	2544.2	851.0	247.4	147.2	82.5	41.2	14.7	0.0	0.0	0.0
35°	4190.3	2391.1	571.3	138.4	50.1	2.9	0.0	0.0	0.0	0.0	0.0
37.5°	4287.4	2179.0	262.1	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4531.8	2073.0	64.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4929.4	1999.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5365.2	1970.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5945.3	2049.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6557.8	2264.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7229.1	2467.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7815.1	2712.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8892.9	3289.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10827.5	4422.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13006.6	5265.1	32.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13804.6	5244.4	55.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	13663.2	4955.9	55.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12930.0	4402.3	50.1	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11104.3	3636.7	50.1	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8465.9	2832.8	47.1	11.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	5109.0	1507.7	38.3	14.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2034.8	530.0	29.4	11.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	550.7	159.0	17.7	11.8	8.8	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	144.3	58.9	14.7	11.8	5.9	2.9	0.0	0.0	0.0	0.0	0.0
85°	55.9	23.6	11.8	8.8	8.8	5.9	2.9	0.0	0.0	0.0	0.0
87.5°	17.7	8.8	8.8	5.9	5.9	2.9	2.9	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)