

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: P483407

Luminaire Tested: **IFLD-L-SA7A-830-U-T4FT-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P483407  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-830-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

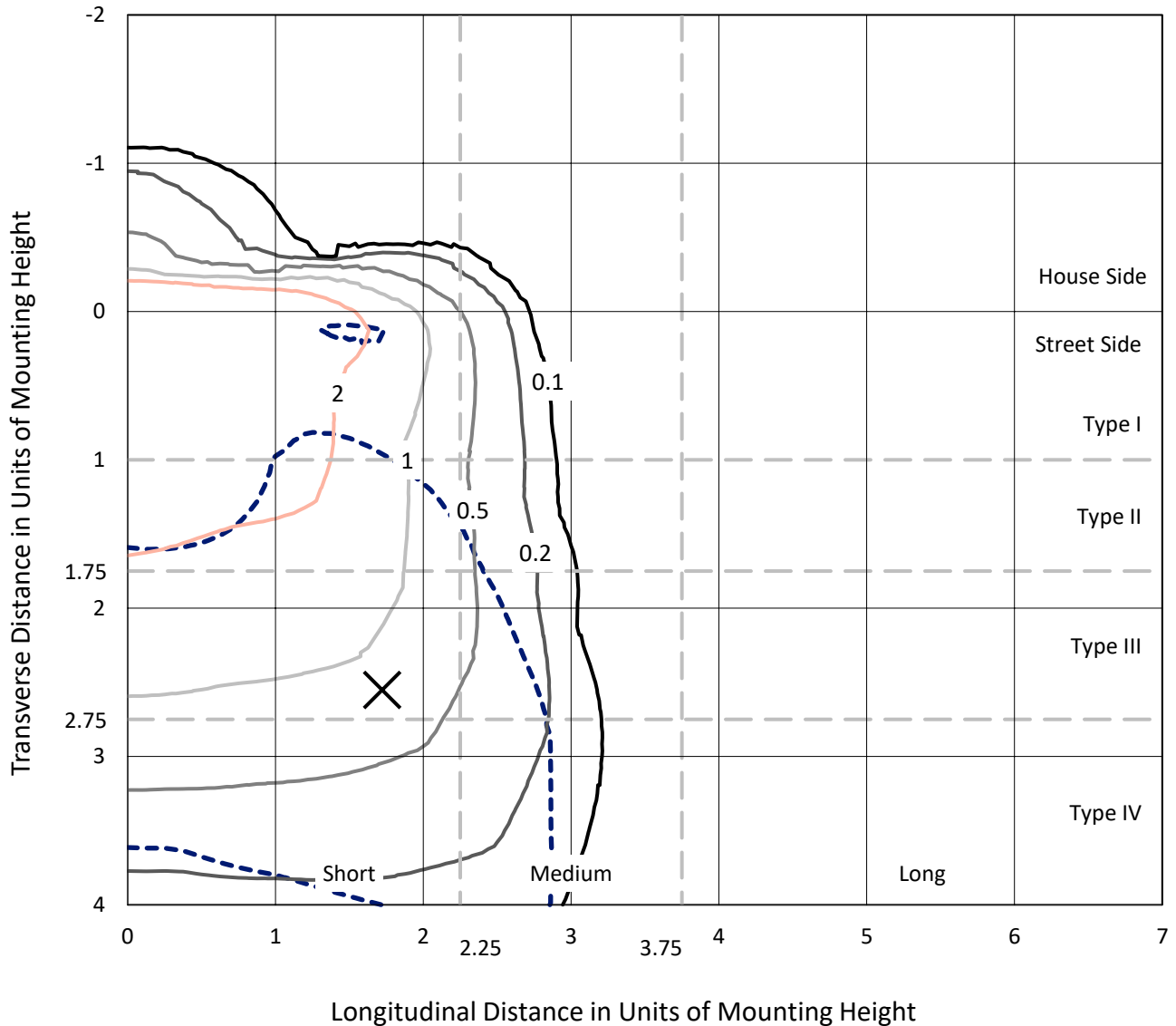
Lumens per Lamp: N/A  
Luminaire Lumens: 17984.2 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6  
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

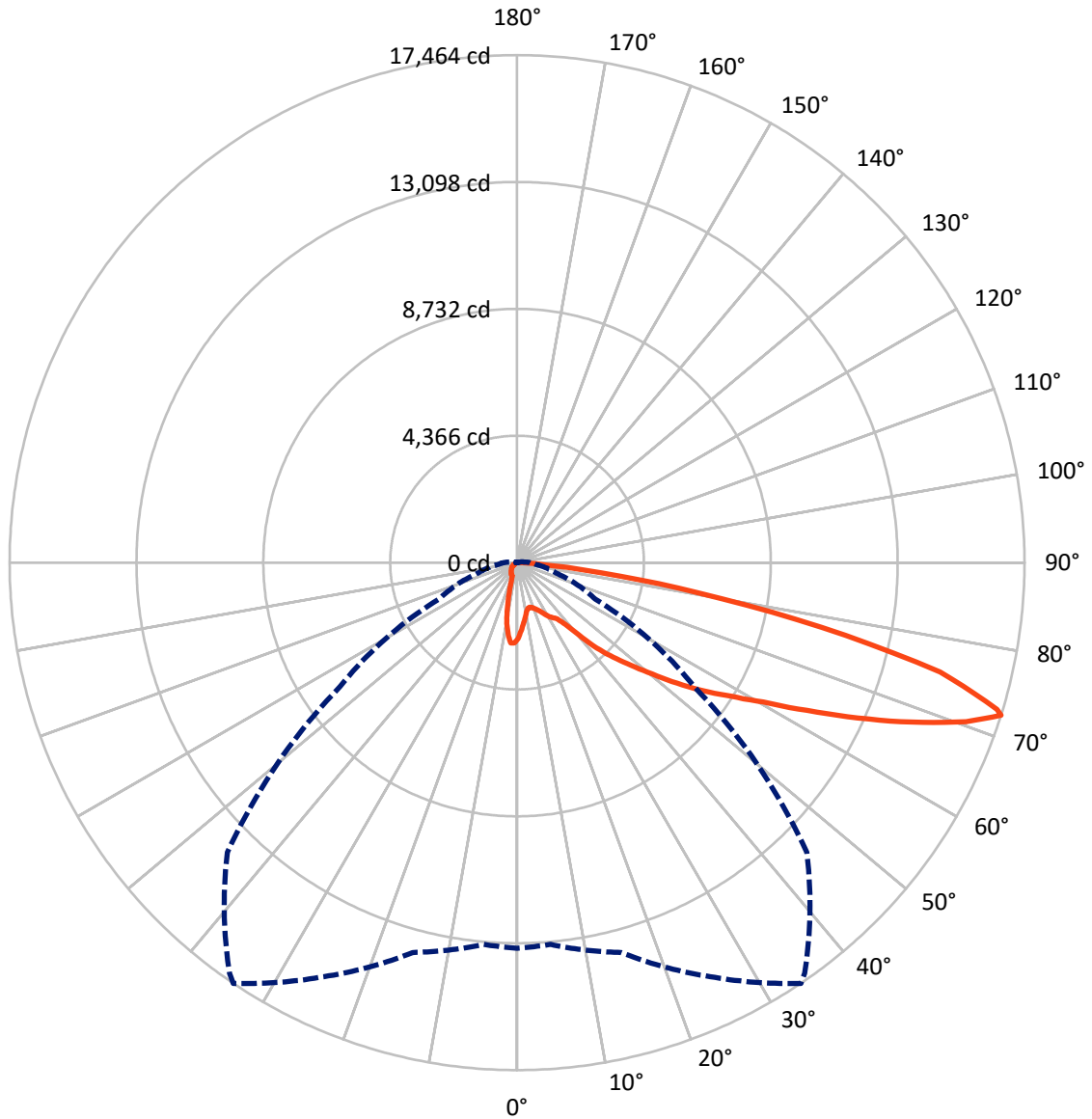
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1841.2	0.0	1841.2
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	16143.0	0.0	16143.0
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	17984.2	0.0	17984.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.4	1.3
10°-20°	517.1	2.9
20°-30°	780.5	4.3
30°-40°	1266.6	7.0
40°-50°	2381.8	13.2
50°-60°	3894.3	21.7
60°-70°	5176.9	28.8
70°-80°	3466.9	19.3
80°-90°	271.7	1.5
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°	17984.2	100.0
0°-180°	17984.2	100.0



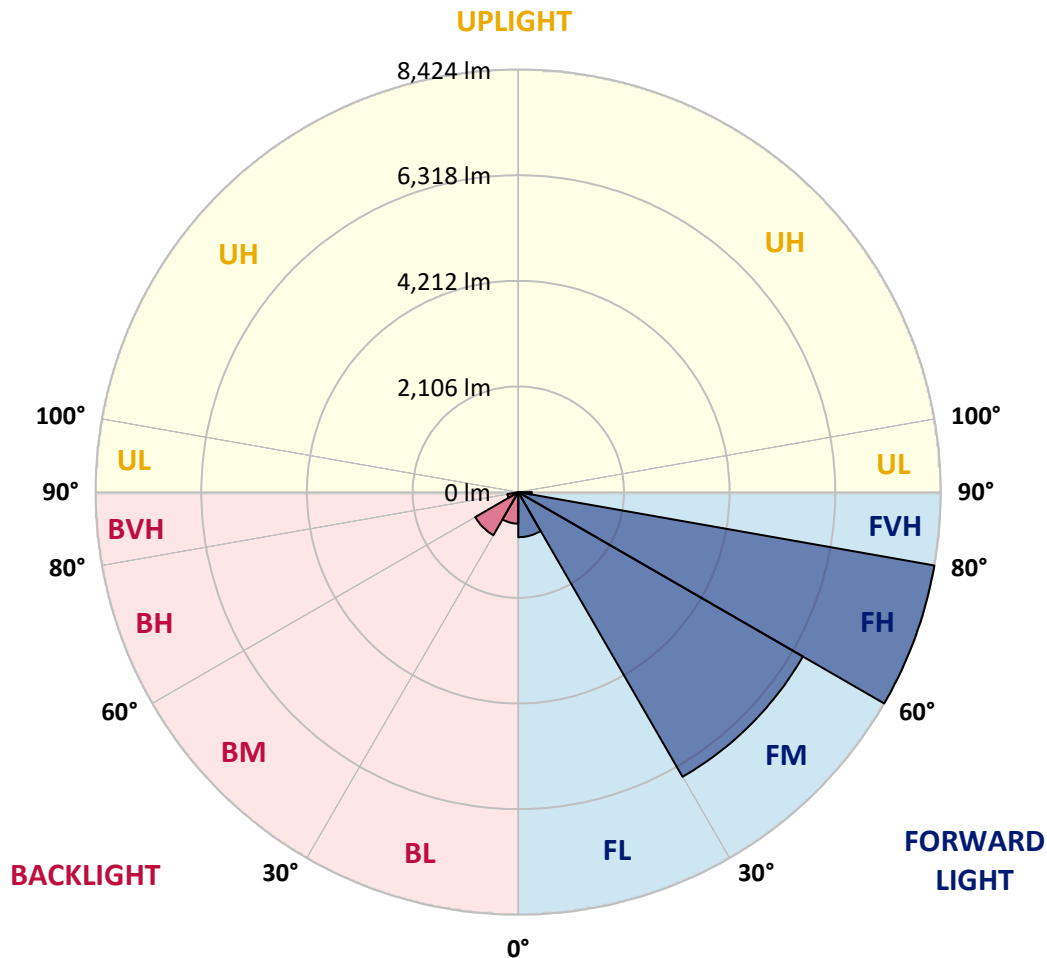
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	897.8	5.0			
FM (30°-60°)	6551.6	36.4			
FH (60°-80°)	8423.7	46.8			G4/12000
FVH (80°-90°)	270.0	1.5			G3/500
BL (0°-30°)	628.2	3.5	B2/1000		
BM (30°-60°)	991.1	5.5	B1/1000		
BH (60°-80°)	220.2	1.2	B1/500		G1/500
BVH (80°-90°)	1.7	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1
2.5°	2326.9	2321.7	2337.3	2363.3	2389.3	2378.9	2428.3	2480.3	2516.7	2566.1	2625.9
5°	2033.1	2046.1	2061.7	2113.7	2147.5	2155.3	2246.3	2313.9	2425.7	2540.1	2646.7
7.5°	1765.3	1780.9	1812.1	1869.3	1939.5	1957.7	2048.7	2183.9	2329.5	2480.3	2654.5
10°	1570.3	1585.9	1619.7	1656.1	1749.7	1749.7	1874.5	2061.7	2251.5	2428.3	2657.1
12.5°	1528.7	1536.5	1533.9	1562.5	1622.3	1635.3	1757.5	1962.9	2183.9	2410.1	2698.7
15°	1578.1	1583.3	1557.3	1541.7	1593.7	1606.7	1721.1	1903.1	2139.7	2420.5	2766.3
17.5°	1676.9	1658.7	1606.7	1583.3	1627.5	1635.3	1741.9	1900.5	2134.5	2449.1	2844.3
20°	1734.1	1754.9	1663.9	1619.7	1682.1	1692.5	1806.9	1942.1	2160.5	2498.5	2953.5
22.5°	1835.5	1845.9	1723.7	1695.1	1754.9	1754.9	1884.9	2025.3	2222.9	2579.1	3083.5
25°	1978.5	1965.5	1822.5	1793.9	1851.1	1874.5	2004.5	2157.9	2319.1	2654.5	3203.1
27.5°	2090.3	2098.1	1981.1	1905.7	2001.9	2017.5	2157.9	2300.9	2391.9	2716.9	3348.7
30°	2256.7	2241.1	2116.3	2030.5	2150.1	2152.7	2287.9	2436.1	2532.3	2828.7	3567.1
32.5°	2454.3	2423.1	2280.1	2157.9	2254.1	2277.5	2415.3	2631.1	2750.7	3039.3	3905.1
35°	2872.9	2797.5	2563.5	2373.7	2381.5	2391.9	2605.1	2914.5	3052.3	3307.1	4357.4
37.5°	3483.9	3452.7	3187.5	2826.1	2688.3	2657.1	2896.3	3288.9	3460.5	3660.7	4945.0
40°	4089.6	4045.4	3798.5	3525.5	3275.9	3213.5	3333.1	3785.5	3941.5	4152.0	5548.2
42.5°	4763.0	4685.0	4393.8	4172.8	4016.9	3949.3	3902.5	4409.4	4586.2	4729.2	6138.4
45°	5444.2	5316.8	4895.6	4726.6	4643.4	4607.0	4601.8	5194.6	5301.2	5329.8	6793.5
47.5°	6042.2	5904.4	5522.2	5332.4	5270.0	5259.6	5550.8	6099.4	6016.2	5940.8	7524.1
50°	6502.4	6414.0	6138.4	6070.8	6024.0	6005.8	6687.0	7030.1	6645.4	6512.8	8166.3
52.5°	7214.7	7017.1	6705.2	6728.6	6892.3	6894.9	7838.7	7914.1	7167.9	6905.3	8772.1
55°	7784.1	7654.1	7399.3	7365.5	7797.1	7843.9	8870.9	8584.9	7459.1	7279.7	8995.7
57.5°	8454.9	8395.1	8210.5	8215.7	8668.1	8766.9	9788.6	9151.7	7700.9	7521.5	9029.5
60°	9424.7	9253.1	9156.9	9201.1	9734.0	9830.2	10677.8	9559.8	7817.9	7680.1	8946.3
62.5°	10495.8	10295.6	10191.6	10417.8	11195.2	11210.8	11353.8	9921.2	7745.1	7721.7	8410.7
65°	11785.4	11587.8	11504.6	11959.6	12882.5	12825.3	12302.7	10074.6	7513.7	7303.1	7004.1
67.5°	13069.7	12950.1	12778.5	13503.9	14653.1	14653.1	13288.1	10017.4	6907.9	5862.8	4581.0
70°	13678.1	13761.3	14034.3	15173.0	16392.4	16267.6	14260.5	9359.7	5142.6	3148.5	1801.7
72°	13272.5	13186.7	13891.3	15719.0	17463.6	17258.2	14096.7	7440.9	2971.7	1380.5	626.6
72.5°	12575.7	12656.3	13626.1	15643.6	17263.4	17432.4	13696.3	6863.7	2443.9	1099.8	473.2
75°	7711.3	7849.1	10170.8	13282.9	15043.0	14853.2	10594.6	3270.7	938.6	468.0	169.0
77.5°	2815.7	2930.1	4934.6	8358.7	10698.6	10579.0	6130.6	1162.2	509.6	348.4	85.8
80°	733.2	793.0	1676.9	3855.7	6291.8	6299.6	2566.1	465.4	345.8	286.0	52.0
82.5°	145.6	161.2	514.8	1500.1	2940.5	2901.5	811.2	249.6	260.0	234.0	36.4
85°	18.2	23.4	109.2	509.6	951.6	852.8	200.2	124.8	192.4	182.0	23.4
87.5°	2.6	2.6	26.0	117.0	200.2	195.0	41.6	39.0	85.8	111.8	13.0
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°	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1	2631.1
2.5°	2659.7	2670.1	2706.5	2737.7	2774.1	2784.5	2768.9	2794.9	2758.5	2779.3	2784.5
5°	2664.9	2724.7	2792.3	2836.5	2826.1	2800.1	2779.3	2709.1	2659.7	2641.5	2680.5
7.5°	2701.3	2768.9	2841.7	2841.7	2784.5	2649.3	2519.3	2394.5	2290.5	2238.5	2282.7
10°	2748.1	2818.3	2893.7	2794.9	2581.7	2334.7	2150.1	1916.1	1757.5	1674.3	1682.1
12.5°	2810.5	2909.3	2935.3	2706.5	2352.9	1986.3	1650.9	1326.0	1175.2	1055.6	1058.2
15°	2891.1	2987.3	2909.3	2514.1	2061.7	1520.9	1118.0	808.6	689.0	626.6	626.6
17.5°	2997.7	3070.5	2901.5	2337.3	1669.1	1040.0	686.4	546.0	520.0	509.6	509.6
20°	3122.5	3177.1	2826.1	2061.7	1240.2	668.2	504.4	488.8	491.4	486.2	486.2
22.5°	3262.9	3281.1	2740.3	1741.9	839.8	494.0	470.6	473.2	475.8	470.6	473.2
25°	3411.1	3361.7	2615.5	1367.5	559.0	449.8	455.0	460.2	462.8	465.4	465.4
27.5°	3577.5	3478.7	2441.3	1001.0	436.8	423.8	439.4	455.0	457.6	457.6	455.0
30°	3821.9	3658.1	2272.3	678.6	384.8	395.2	421.2	439.4	452.4	452.4	449.8
32.5°	4131.2	3845.3	2035.7	462.8	356.2	361.4	382.2	418.6	447.2	449.8	442.0
35°	4560.2	4071.4	1788.7	369.2	335.4	338.0	351.0	379.6	429.0	444.6	442.0
37.5°	5012.6	4328.8	1481.9	332.8	319.8	317.2	325.0	348.4	392.6	431.6	434.2
40°	5493.6	4599.2	1159.6	314.6	306.8	301.6	304.2	314.6	348.4	397.8	408.2
42.5°	5946.0	4843.6	871.0	296.4	293.8	288.6	288.6	291.2	309.4	343.2	348.4
45°	6434.8	5043.8	663.0	283.4	275.6	278.2	267.8	262.6	275.6	278.2	275.6
47.5°	6892.3	5244.0	530.4	267.8	260.0	260.0	247.0	236.6	236.6	213.2	210.6
50°	7321.3	5353.2	423.8	247.0	244.4	241.8	223.6	205.4	189.8	161.2	156.0
52.5°	7677.5	5348.0	327.6	221.0	228.8	221.0	192.4	166.4	143.0	117.0	111.8
55°	7784.1	5098.4	247.0	182.0	195.0	184.6	153.4	130.0	104.0	83.2	80.6
57.5°	7693.1	4718.8	187.2	140.4	150.8	140.4	117.0	96.2	72.8	57.2	52.0
60°	7388.9	4274.2	145.6	109.2	114.4	106.6	88.4	72.8	52.0	36.4	31.2
62.5°	6811.7	3717.9	111.8	85.8	83.2	83.2	67.6	54.6	36.4	20.8	18.2
65°	5589.8	2898.9	85.8	59.8	59.8	59.8	52.0	39.0	23.4	10.4	5.2
67.5°	3509.9	1687.3	70.2	46.8	44.2	44.2	36.4	26.0	13.0	2.6	0.0
70°	1320.8	618.8	54.6	36.4	33.8	33.8	26.0	15.6	7.8	0.0	0.0
72°	455.0	236.6	44.2	26.0	26.0	23.4	18.2	13.0	5.2	0.0	0.0
72.5°	374.4	189.8	41.6	26.0	23.4	23.4	18.2	13.0	5.2	0.0	0.0
75°	135.2	78.0	28.6	18.2	15.6	15.6	13.0	7.8	2.6	0.0	0.0
77.5°	67.6	49.4	23.4	15.6	13.0	7.8	7.8	5.2	2.6	0.0	0.0
80°	41.6	31.2	13.0	10.4	7.8	5.2	2.6	2.6	0.0	0.0	0.0
82.5°	28.6	18.2	7.8	7.8	5.2	2.6	0.0	0.0	0.0	0.0	0.0
85°	18.2	7.8	5.2	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	5.2	2.6	0.0	0.0	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)