

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: P483373

Luminaire Tested: **IFLD-L-SA8A-827-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483373  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-827-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

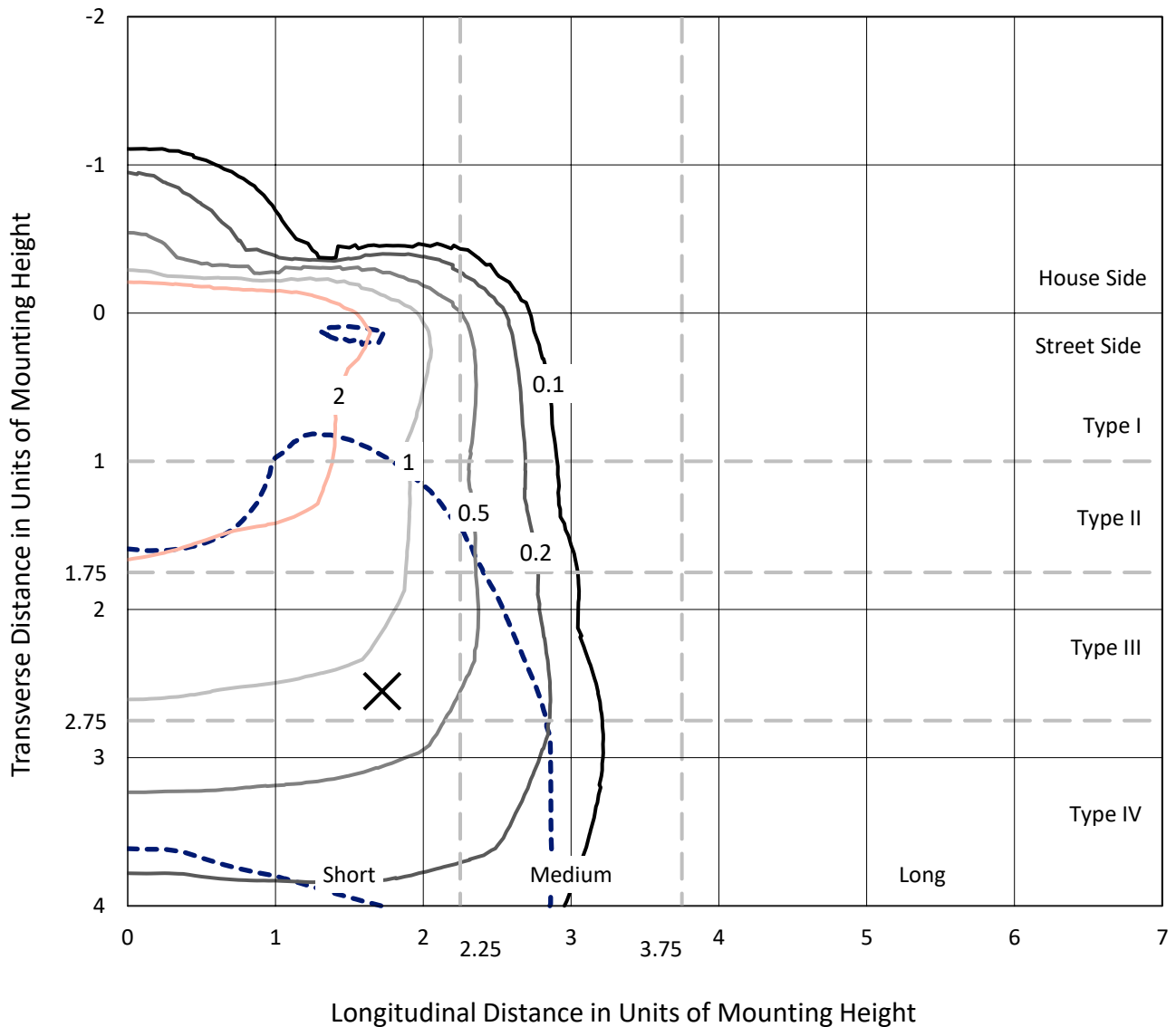
Lumens per Lamp: N/A  
Luminaire Lumens: 18208.6 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8  
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

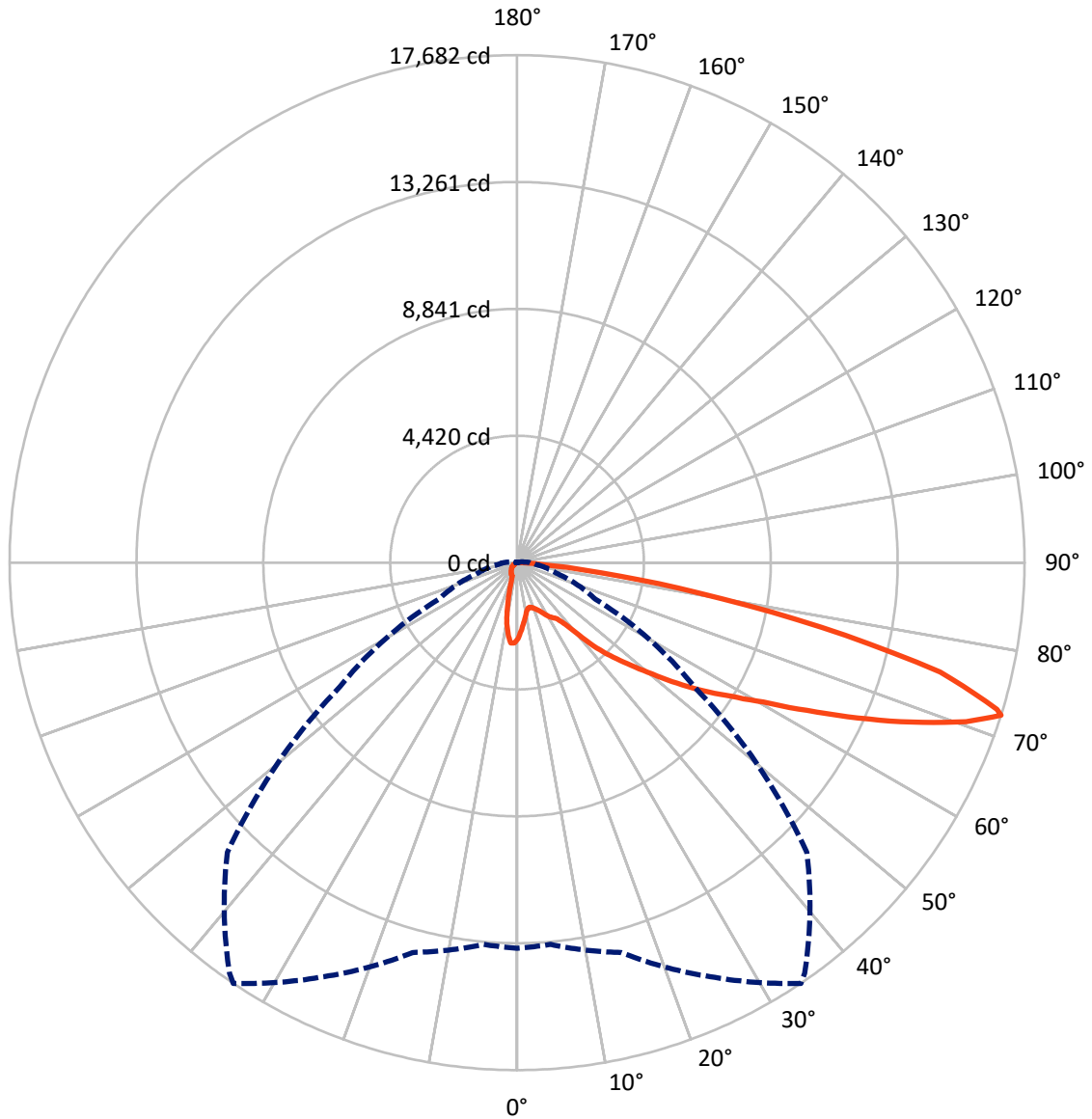
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	1864.1	0.0	1864.1
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	16344.5	0.0	16344.5
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	18208.6	0.0	18208.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.3	1.3
10°-20°	523.6	2.9
20°-30°	790.2	4.3
30°-40°	1282.4	7.0
40°-50°	2411.5	13.2
50°-60°	3942.9	21.7
60°-70°	5241.5	28.8
70°-80°	3510.2	19.3
80°-90°	275.1	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°	18208.6	100.0
0°-180°	18208.6	100.0

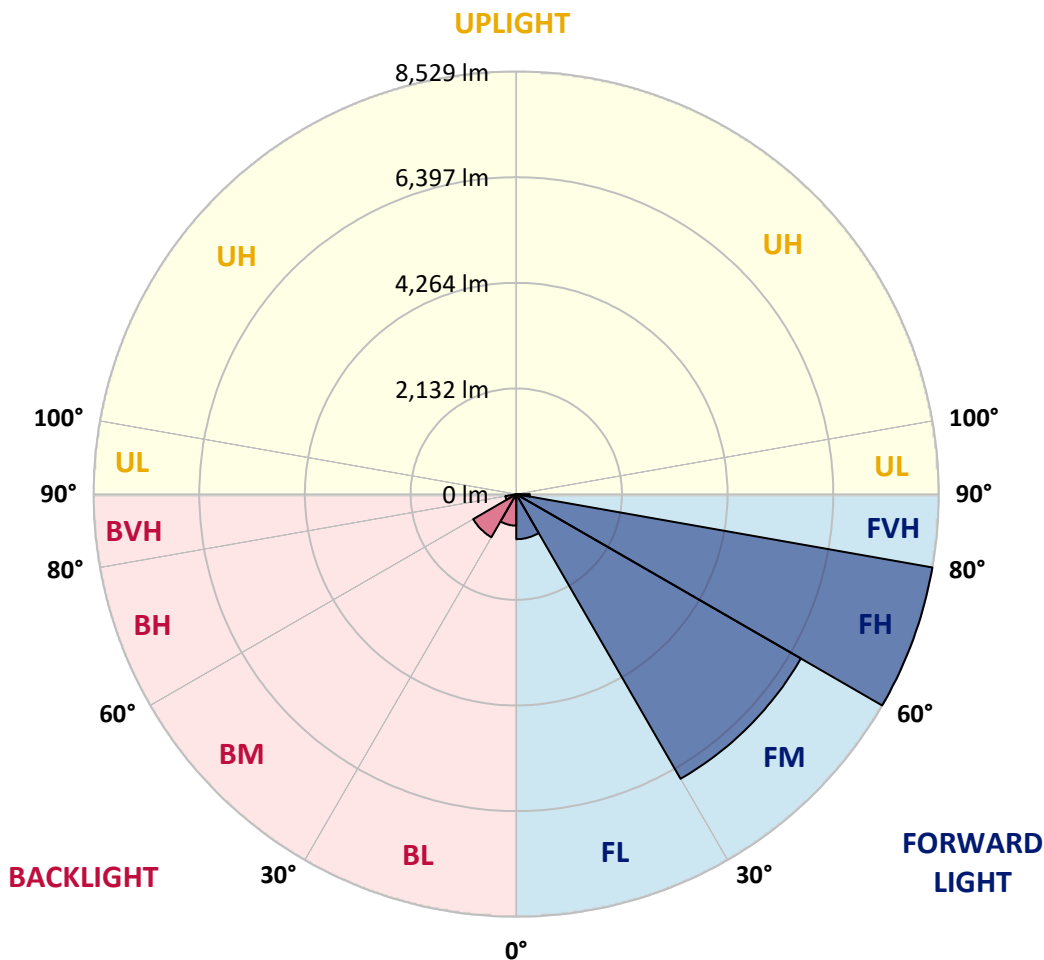


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	909.0	5.0			
FM (30°-60°)	6633.4	36.4			
FH (60°-80°)	8528.8	46.8			G4/12000
FVH (80°-90°)	273.3	1.5			G3/500
BL (0°-30°)	636.0	3.5	B2/1000		
BM (30°-60°)	1003.4	5.5	B2/2500		
BH (60°-80°)	222.9	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°	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9
2.5°	2356.0	2350.7	2366.5	2392.8	2419.1	2408.6	2458.6	2511.3	2548.1	2598.1	2658.7
5°	2058.5	2071.7	2087.5	2140.1	2174.3	2182.2	2274.3	2342.8	2456.0	2571.8	2679.7
7.5°	1787.4	1803.2	1834.7	1892.7	1963.7	1982.2	2074.3	2211.2	2358.6	2511.3	2687.6
10°	1589.9	1605.7	1640.0	1676.8	1771.6	1771.6	1897.9	2087.5	2279.6	2458.6	2690.3
12.5°	1547.8	1555.7	1553.1	1582.0	1642.6	1655.7	1779.5	1987.4	2211.2	2440.2	2732.4
15°	1597.8	1603.1	1576.8	1561.0	1613.6	1626.8	1742.6	1926.9	2166.4	2450.7	2800.8
17.5°	1697.9	1679.4	1626.8	1603.1	1647.8	1655.7	1763.7	1924.2	2161.2	2479.7	2879.8
20°	1755.8	1776.8	1684.7	1640.0	1703.1	1713.7	1829.5	1966.4	2187.5	2529.7	2990.3
22.5°	1858.4	1869.0	1745.2	1716.3	1776.8	1776.8	1908.5	2050.6	2250.7	2611.3	3122.0
25°	2003.2	1990.1	1845.3	1816.3	1874.2	1897.9	2029.5	2184.8	2348.1	2687.6	3243.1
27.5°	2116.4	2124.3	2005.8	1929.5	2026.9	2042.7	2184.8	2329.6	2421.8	2750.8	3390.5
30°	2284.9	2269.1	2142.7	2055.9	2177.0	2179.6	2316.5	2466.5	2563.9	2864.0	3611.6
32.5°	2484.9	2453.3	2308.6	2184.8	2282.2	2305.9	2445.5	2663.9	2785.0	3077.2	3953.8
35°	2908.7	2832.4	2595.5	2403.3	2411.2	2421.8	2637.6	2950.9	3090.4	3348.3	4411.8
37.5°	3527.3	3495.8	3227.3	2861.4	2721.8	2690.3	2932.4	3329.9	3503.7	3706.3	5006.7
40°	4140.7	4095.9	3845.9	3569.5	3316.8	3253.6	3374.7	3832.7	3990.6	4203.9	5617.4
42.5°	4822.5	4743.5	4448.7	4224.9	4067.0	3998.5	3951.2	4464.5	4643.5	4788.2	6215.0
45°	5512.1	5383.2	4956.7	4785.6	4701.4	4664.5	4659.3	5259.4	5367.4	5396.3	6878.3
47.5°	6117.6	5978.1	5591.1	5398.9	5335.8	5325.2	5620.1	6175.5	6091.3	6014.9	7618.0
50°	6583.5	6494.0	6215.0	6146.5	6099.1	6080.7	6770.4	7117.9	6728.3	6594.0	8268.2
52.5°	7304.8	7104.7	6788.8	6812.5	6978.4	6981.0	7936.5	8012.9	7257.4	6991.5	8881.5
55°	7881.2	7749.6	7491.7	7457.4	7894.4	7941.8	8981.6	8692.0	7552.2	7370.6	9107.9
57.5°	8560.4	8499.8	8313.0	8318.2	8776.2	8876.3	9910.8	9265.9	7797.0	7615.4	9142.1
60°	9542.3	9368.5	9271.1	9315.9	9855.5	9952.9	10811.0	9679.1	7915.5	7776.0	9057.9
62.5°	10626.8	10424.1	10318.8	10547.8	11334.9	11350.7	11495.5	10045.0	7841.8	7818.1	8515.6
65°	11932.4	11732.4	11648.1	12108.8	13043.3	12985.4	12456.3	10200.3	7607.5	7394.3	7091.5
67.5°	13232.8	13111.7	12938.0	13672.4	14835.9	14835.9	13453.9	10142.4	6994.1	5935.9	4638.2
70°	13848.8	13933.0	14209.4	15362.4	16596.9	16470.6	14438.4	9476.4	5206.8	3187.8	1824.2
72°	13438.1	13351.3	14064.6	15915.2	17681.5	17473.5	14272.6	7533.8	3008.8	1397.8	634.4
72.5°	12732.7	12814.3	13796.1	15838.8	17478.8	17649.9	13867.2	6949.4	2474.4	1113.5	479.1
75°	7807.5	7947.1	10297.7	13448.7	15230.8	15038.6	10726.8	3311.5	950.3	473.8	171.1
77.5°	2850.8	2966.7	4996.2	8463.0	10832.1	10711.0	6207.1	1176.7	515.9	352.7	86.9
80°	742.3	802.9	1697.9	3903.8	6370.3	6378.2	2598.1	471.2	350.1	289.6	52.6
82.5°	147.4	163.2	521.2	1518.9	2977.2	2937.7	821.3	252.7	263.2	236.9	36.9
85°	18.4	23.7	110.6	515.9	963.4	863.4	202.7	126.4	194.8	184.3	23.7
87.5°	2.6	2.6	26.3	118.5	202.7	197.4	42.1	39.5	86.9	113.2	13.2
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°	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9	2663.9
2.5°	2692.9	2703.4	2740.3	2771.9	2808.7	2819.2	2803.4	2829.8	2792.9	2814.0	2819.2
5°	2698.2	2758.7	2827.1	2871.9	2861.4	2835.0	2814.0	2742.9	2692.9	2674.5	2713.9
7.5°	2735.0	2803.4	2877.2	2877.2	2819.2	2682.4	2550.7	2424.4	2319.1	2266.5	2311.2
10°	2782.4	2853.5	2929.8	2829.8	2613.9	2363.8	2177.0	1940.0	1779.5	1695.2	1703.1
12.5°	2845.6	2945.6	2971.9	2740.3	2382.3	2011.1	1671.5	1342.5	1189.8	1068.7	1071.4
15°	2927.2	3024.6	2945.6	2545.5	2087.5	1539.9	1131.9	818.7	697.6	634.4	634.4
17.5°	3035.1	3108.8	2937.7	2366.5	1690.0	1052.9	694.9	552.8	526.5	515.9	515.9
20°	3161.4	3216.7	2861.4	2087.5	1255.6	676.5	510.7	494.9	497.5	492.2	492.2
22.5°	3303.6	3322.0	2774.5	1763.7	850.2	500.1	476.5	479.1	481.7	476.5	479.1
25°	3453.6	3403.6	2648.1	1384.6	566.0	455.4	460.7	465.9	468.6	471.2	471.2
27.5°	3622.1	3522.1	2471.8	1013.5	442.2	429.1	444.9	460.7	463.3	463.3	460.7
30°	3869.6	3703.7	2300.7	687.0	389.6	400.1	426.4	444.9	458.0	458.0	455.4
32.5°	4182.8	3893.2	2061.1	468.6	360.6	365.9	387.0	423.8	452.8	455.4	447.5
35°	4617.1	4122.3	1811.1	373.8	339.6	342.2	355.4	384.3	434.3	450.1	447.5
37.5°	5075.2	4382.9	1500.4	336.9	323.8	321.1	329.0	352.7	397.5	437.0	439.6
40°	5562.1	4656.6	1174.0	318.5	310.6	305.4	308.0	318.5	352.7	402.7	413.3
42.5°	6020.2	4904.1	881.8	300.1	297.5	292.2	292.2	294.8	313.2	347.5	352.7
45°	6515.1	5106.8	671.2	286.9	279.0	281.7	271.1	265.9	279.0	281.7	279.0
47.5°	6978.4	5309.4	537.0	271.1	263.2	263.2	250.1	239.5	239.5	215.9	213.2
50°	7412.7	5420.0	429.1	250.1	247.4	244.8	226.4	208.0	192.2	163.2	157.9
52.5°	7773.3	5414.7	331.7	223.7	231.6	223.7	194.8	168.5	144.8	118.5	113.2
55°	7881.2	5162.0	250.1	184.3	197.4	186.9	155.3	131.6	105.3	84.2	81.6
57.5°	7789.1	4777.7	189.5	142.1	152.7	142.1	118.5	97.4	73.7	57.9	52.6
60°	7481.1	4327.6	147.4	110.6	115.8	107.9	89.5	73.7	52.6	36.9	31.6
62.5°	6896.7	3764.3	113.2	86.9	84.2	84.2	68.4	55.3	36.9	21.1	18.4
65°	5659.5	2935.1	86.9	60.5	60.5	60.5	52.6	39.5	23.7	10.5	5.3
67.5°	3553.7	1708.4	71.1	47.4	44.7	44.7	36.9	26.3	13.2	2.6	0.0
70°	1337.2	626.5	55.3	36.9	34.2	34.2	26.3	15.8	7.9	0.0	0.0
72°	460.7	239.5	44.7	26.3	26.3	23.7	18.4	13.2	5.3	0.0	0.0
72.5°	379.1	192.2	42.1	26.3	23.7	23.7	18.4	13.2	5.3	0.0	0.0
75°	136.9	79.0	29.0	18.4	15.8	15.8	13.2	7.9	2.6	0.0	0.0
77.5°	68.4	50.0	23.7	15.8	13.2	7.9	7.9	5.3	2.6	0.0	0.0
80°	42.1	31.6	13.2	10.5	7.9	5.3	2.6	2.6	0.0	0.0	0.0
82.5°	29.0	18.4	7.9	7.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0
85°	18.4	7.9	5.3	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	5.3	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)