

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: P476891

Luminaire Tested: **IFLD-M-SA4C-727-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476891  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-727-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

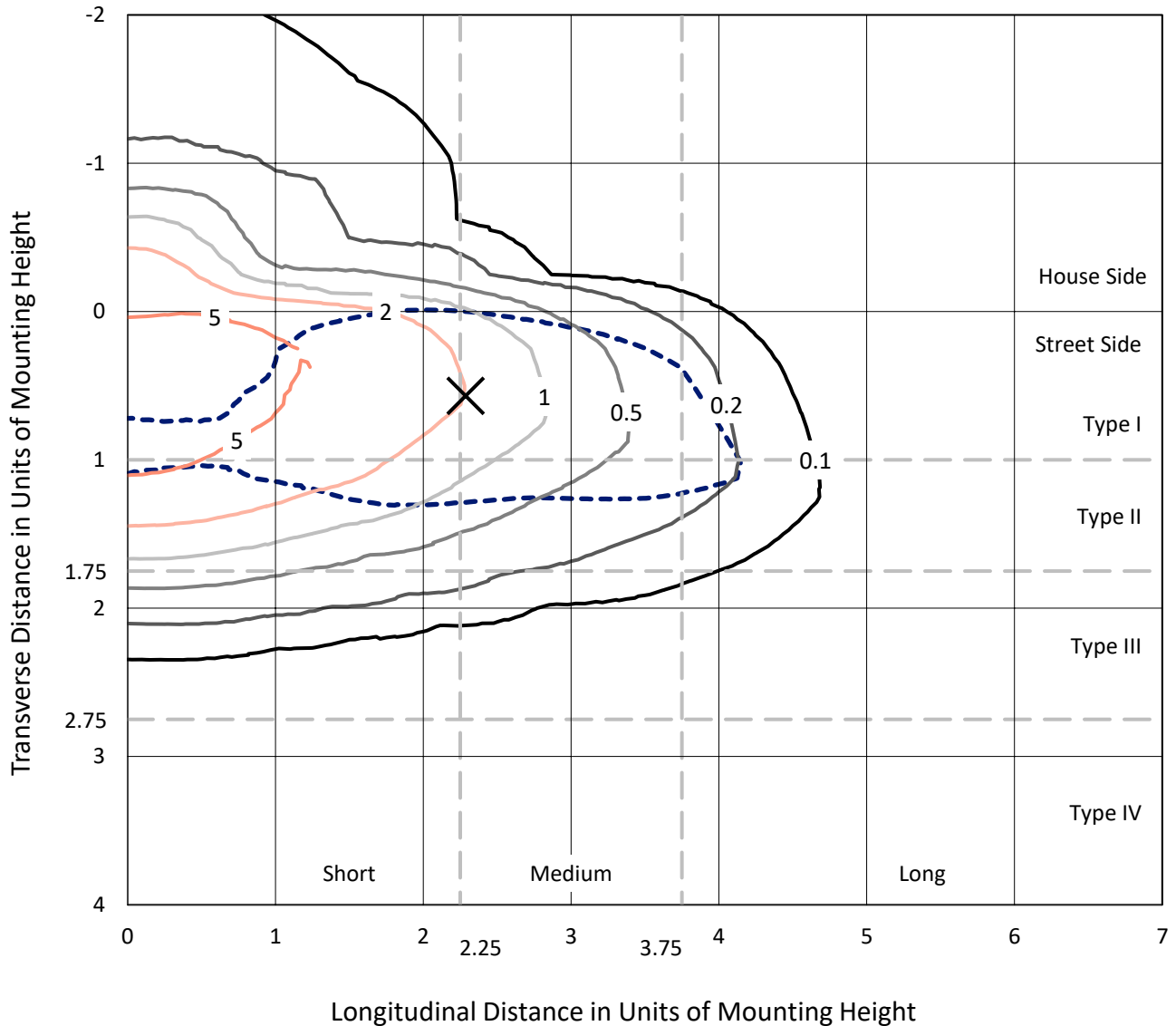
Lumens per Lamp: N/A  
Luminaire Lumens: 23911 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 218.1  
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

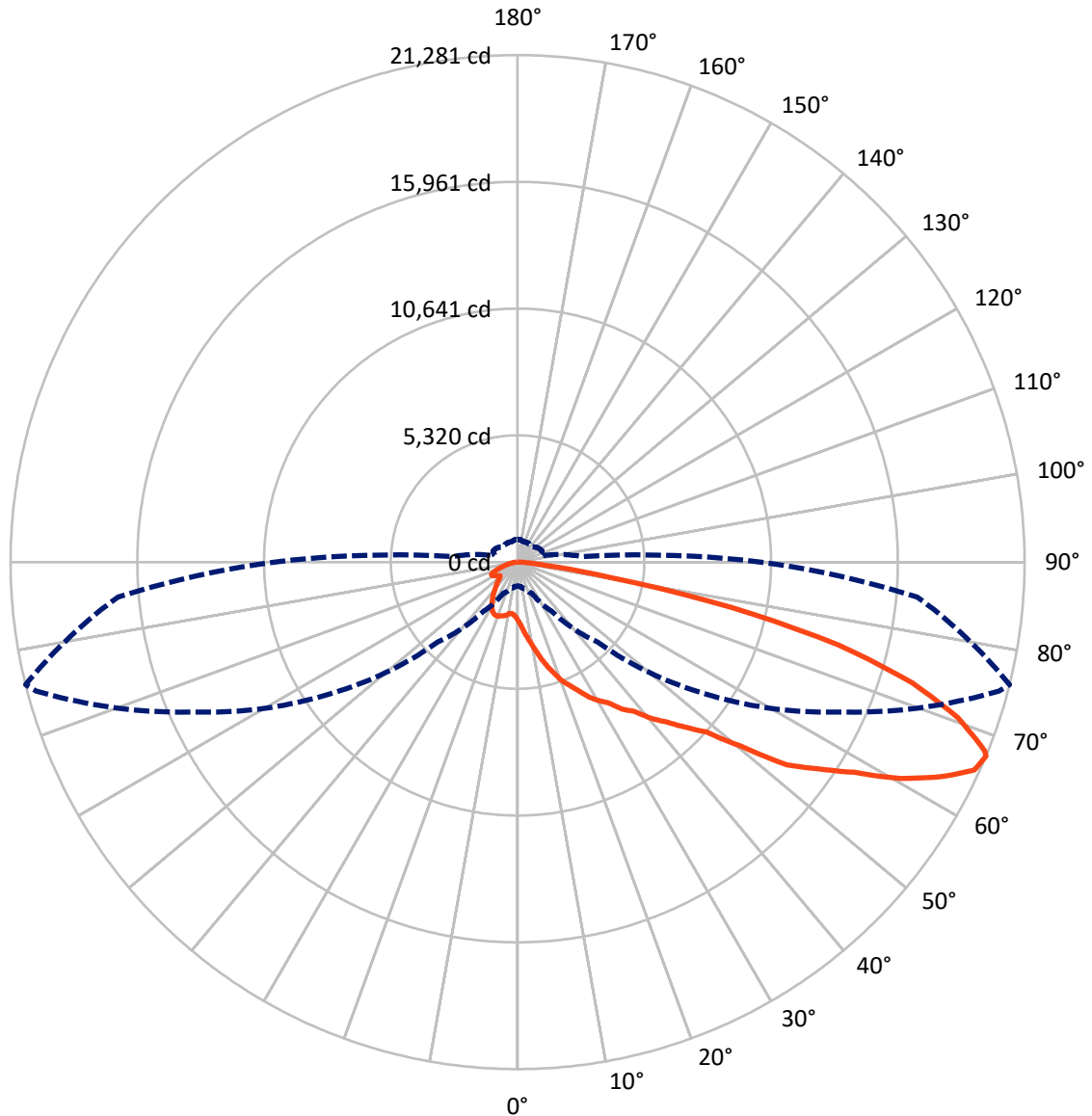
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3401.6	0.0	3401.6
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	20509.4	0.0	20509.4
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	23911.0	0.0	23911.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.4	1.2
10°-20°	1063.1	4.4
20°-30°	1976.4	8.3
30°-40°	3133.0	13.1
40°-50°	4333.2	18.1
50°-60°	5330.1	22.3
60°-70°	4959.9	20.7
70°-80°	2488.8	10.4
80°-90°	343.2	1.4
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°	23911.0	100.0
0°-180°	23911.0	100.0

**Coefficient of Utilization**



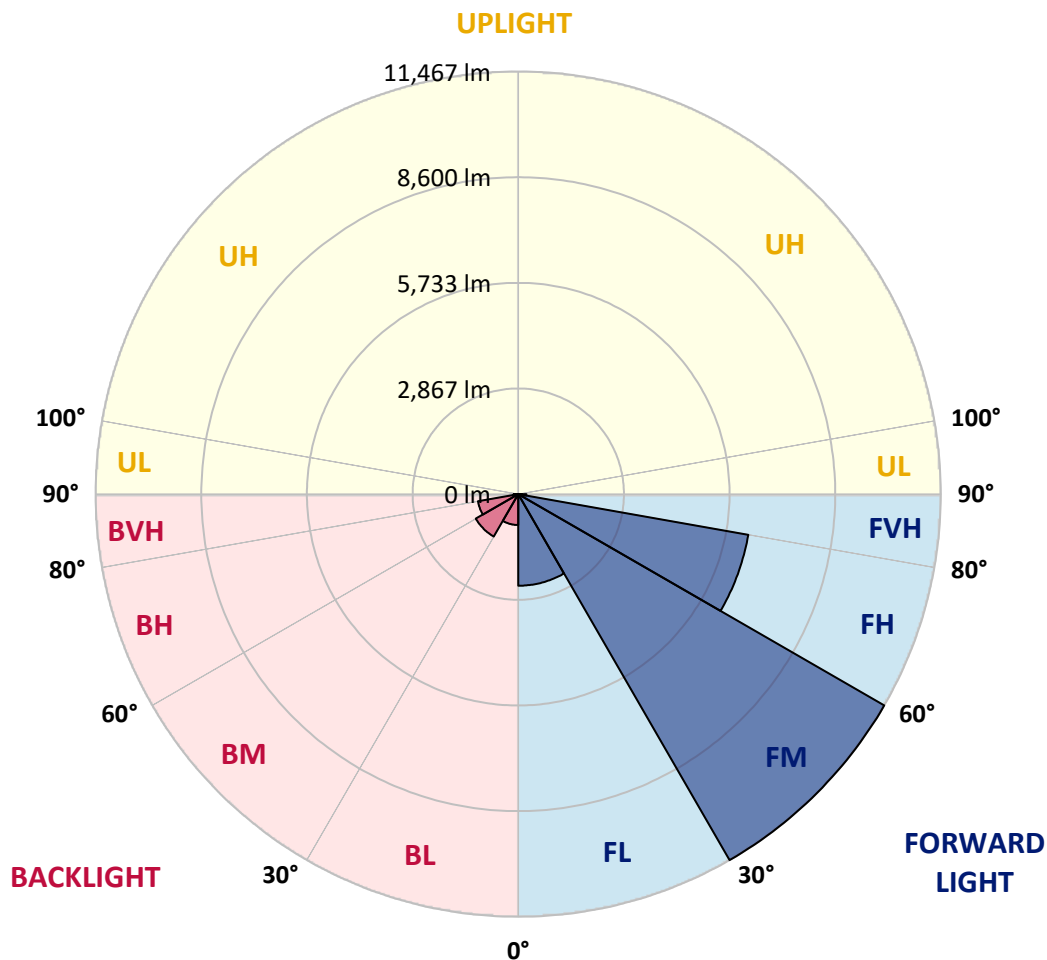
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2485.2	10.4			
FM (30°-60°)	11467.0	48.0			
FH (60°-80°)	6338.6	26.5			G3/7500
FVH (80°-90°)	218.6	0.9			G2/225
BL (0°-30°)	837.7	3.5	B2/1000		
BM (30°-60°)	1329.3	5.6	B2/2500		
BH (60°-60°)	1110.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	124.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9
2.5°	3395.2	3354.3	3313.4	3226.2	3196.3	3114.5	2964.7	2798.4	2662.2	2643.1	2547.8
5°	4212.6	4152.7	4139.1	4090.0	3934.7	3776.7	3531.4	3264.4	2932.0	2956.5	2629.5
7.5°	4825.7	4790.3	4716.7	4670.4	4577.8	4368.0	4114.5	3760.3	3338.0	3256.2	2812.1
10°	5289.0	5239.9	5237.2	5196.3	5147.3	4932.0	4738.5	4261.7	3719.4	3607.7	3035.5
12.5°	5523.3	5515.1	5659.5	5659.5	5640.5	5550.6	5218.1	4782.1	4081.9	4043.7	3294.4
15°	5776.7	5708.6	5833.9	5929.3	5978.4	6024.7	5749.5	5289.0	4545.1	4471.5	3572.3
17.5°	5776.7	5771.3	5896.6	6054.7	6310.8	6370.7	6220.9	5754.9	4929.3	4874.8	3877.5
20°	5678.6	5757.6	5844.8	6057.4	6335.3	6577.8	6621.4	6231.8	5354.4	5310.8	4223.5
22.5°	6136.4	6060.1	6150.0	6231.8	6447.0	6814.9	6934.8	6651.4	5801.2	5635.0	4536.9
25°	6904.8	6853.0	6787.6	6667.7	6757.7	6918.4	7101.0	6962.0	6182.7	5997.4	4839.4
27.5°	7654.2	7656.9	7515.2	7253.6	7060.1	7092.8	7308.1	7234.5	6504.3	6422.5	5046.5
30°	8719.6	8654.2	8496.1	8141.9	7763.1	7452.5	7417.1	7487.9	6913.0	6754.9	5343.5
32.5°	9518.0	9531.6	9308.1	8798.6	8280.9	8027.5	7716.8	7746.8	7171.8	7054.7	5580.5
35°	10163.8	10147.4	9989.4	9567.0	8953.9	8648.7	8229.1	8057.4	7774.0	7588.8	5942.9
37.5°	10861.3	10727.8	10471.7	9994.8	9602.4	9180.1	8771.3	8384.4	8174.6	7951.2	6253.6
40°	11142.0	11142.0	10798.6	10580.7	10114.7	9795.9	9531.6	8814.9	8662.4	8618.8	6651.4
42.5°	10943.1	11065.7	10924.0	10676.0	10485.3	10082.0	10011.2	9261.8	9264.5	9177.4	7128.3
45°	10924.0	10755.0	10637.9	10700.6	10610.6	10588.8	10768.7	9880.4	9896.7	9885.8	7768.6
47.5°	10376.3	10300.0	10474.4	10577.9	10651.5	10989.4	11507.1	10618.8	10736.0	10654.2	8507.0
50°	9831.3	9817.7	9926.7	10302.7	10621.5	11177.4	12210.1	11757.8	12142.0	12136.6	9844.9
52.5°	8338.1	8482.5	8910.3	9706.0	10493.5	11433.5	12741.5	13212.9	13945.9	14144.8	10954.0
55°	6910.3	6834.0	7466.1	8621.5	9934.9	11534.4	13335.5	14087.6	15166.6	15311.0	12093.0
57.5°	5376.2	5517.9	6016.5	7125.5	8779.5	11035.7	13771.5	14951.3	16545.4	16657.1	13414.5
60°	4011.0	4030.1	4577.8	5471.5	7242.7	9910.3	13913.2	15836.9	18125.8	18444.6	14798.8
62.5°	2523.2	2637.7	3054.6	3934.7	5452.5	8335.4	13278.3	16373.7	19782.5	19867.0	16193.9
65°	1359.7	1433.3	1746.6	2299.8	3809.4	6305.3	11594.3	16052.2	20561.8	21063.2	16815.2
67°	1005.5	1019.1	1163.5	1468.7	2547.8	4746.7	9667.8	14888.7	20916.1	21281.2	16839.7
67.5°	942.8	961.9	1076.3	1318.8	2258.9	4370.7	9163.7	14474.5	20758.0	21150.4	16648.9
70°	806.6	812.0	839.3	907.4	1267.1	2629.5	6239.9	11861.3	19240.3	19616.3	15311.0
72.5°	716.6	722.1	733.0	746.6	858.3	1520.5	3795.7	9128.3	16722.5	17322.0	13210.2
75°	629.4	648.5	654.0	643.1	730.3	989.1	2019.1	6708.6	13640.7	13932.2	10272.7
77.5°	534.1	542.2	553.1	564.0	651.2	738.4	970.1	4528.7	9362.6	9185.5	5556.0
80°	449.6	452.3	460.5	468.7	564.0	564.0	550.4	2446.9	4090.0	3910.2	1877.4
82.5°	321.5	340.6	359.7	381.5	468.7	378.8	359.7	1089.9	1294.3	1231.6	634.9
85°	125.3	152.6	237.1	261.6	297.0	204.4	239.8	471.4	539.5	534.1	237.1
87.5°	21.8	24.5	65.4	100.8	109.0	70.8	114.4	168.9	201.6	218.0	87.2
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°	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9	2446.9
2.5°	2468.7	2384.3	2283.4	2182.6	2117.2	2013.7	2005.5	1942.8	1934.7	1912.9	1923.8
5°	2487.8	2387.0	2182.6	2021.9	1948.3	1888.3	1902.0	1874.7	1866.5	1852.9	1831.1
7.5°	2637.7	2438.8	2133.6	1994.6	1940.1	1912.9	1912.9	1880.2	1855.6	1872.0	1888.3
10°	2735.8	2463.3	2171.7	2032.8	1989.2	1929.2	1951.0	1910.1	1923.8	1891.1	1891.1
12.5°	2893.8	2602.2	2250.7	2090.0	2019.1	1964.6	1986.4	1940.1	1929.2	1931.9	1923.8
15°	3106.3	2694.9	2286.2	2122.7	2073.6	2005.5	1989.2	1948.3	1907.4	1893.8	1910.1
17.5°	3305.3	2809.3	2310.7	2141.7	2062.7	1986.4	1967.4	1915.6	1902.0	1861.1	1828.4
20°	3542.3	2945.6	2343.4	2158.1	2021.9	1945.6	1896.5	1844.7	1798.4	1773.9	1784.8
22.5°	3700.4	3016.4	2359.7	2125.4	1961.9	1891.1	1787.5	1752.1	1686.7	1659.4	1637.6
25°	3959.2	3103.6	2318.9	2035.5	1855.6	1741.2	1648.5	1599.5	1553.2	1517.8	1506.9
27.5°	4024.6	3169.0	2223.5	1882.9	1686.7	1566.8	1487.8	1427.8	1397.9	1343.4	1332.5
30°	4215.4	3103.6	2081.8	1697.6	1525.9	1403.3	1324.3	1280.7	1209.8	1196.2	1166.2
32.5°	4338.0	3122.7	1902.0	1517.8	1340.6	1231.6	1179.9	1136.3	1117.2	1051.8	1035.4
35°	4542.4	3057.3	1719.4	1351.5	1188.0	1103.6	1060.0	1046.3	983.7	953.7	926.5
37.5°	4673.1	3019.2	1536.8	1163.5	1021.8	986.4	1000.0	942.8	866.5	809.3	790.2
40°	4902.0	3005.5	1329.7	1008.2	907.4	899.2	942.8	833.8	694.8	645.8	618.5
42.5°	5231.7	2912.9	1169.0	869.2	817.5	852.9	861.1	694.8	615.8	574.9	555.9
45°	5547.8	2932.0	1010.9	719.4	711.2	763.0	743.9	588.6	542.2	512.3	528.6
47.5°	6155.5	3027.3	855.6	599.5	640.3	689.4	577.7	525.9	482.3	460.5	463.2
50°	7095.6	3120.0	719.4	547.7	604.9	624.0	495.9	476.9	474.1	430.5	427.8
52.5°	7659.6	3084.5	694.8	613.1	648.5	624.0	539.5	525.9	504.1	485.0	463.2
55°	8556.1	3188.1	746.6	716.6	735.7	599.5	604.9	599.5	583.1	534.1	547.7
57.5°	9270.0	3256.2	814.7	801.1	790.2	624.0	632.2	634.9	624.0	602.2	621.3
60°	10250.9	3392.5	885.6	888.3	891.0	678.5	692.1	708.5	705.7	697.6	703.0
62.5°	10853.1	3329.8	964.6	1008.2	994.6	790.2	787.5	798.4	798.4	812.0	820.2
65°	10763.2	3098.2	1005.5	1114.5	1043.6	872.0	872.0	877.4	880.1	907.4	910.1
67°	10223.7	2684.0	983.7	1130.8	1043.6	904.7	904.7	910.1	891.0	961.9	940.1
67.5°	9973.0	2561.4	964.6	1117.2	1035.4	901.9	901.9	904.7	888.3	956.4	934.6
70°	8673.3	1902.0	831.1	989.1	959.2	877.4	877.4	861.1	847.4	937.4	918.3
72.5°	7403.5	1381.5	667.6	842.0	866.5	844.7	850.2	809.3	771.1	833.8	817.5
75°	5670.4	1016.4	520.4	648.5	733.0	790.2	825.6	722.1	673.0	689.4	659.4
77.5°	3163.6	662.1	411.5	479.6	558.6	735.7	792.9	651.2	550.4	531.3	531.3
80°	1073.6	386.9	302.5	357.0	384.2	651.2	741.2	528.6	433.3	414.2	400.6
82.5°	406.0	237.1	207.1	245.2	245.2	515.0	604.9	406.0	327.0	422.4	430.5
85°	185.3	141.7	136.2	141.7	141.7	316.1	427.8	264.3	294.3	253.4	223.4
87.5°	73.6	68.1	62.7	59.9	49.0	54.5	147.1	70.8	133.5	35.4	32.7
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)