

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: P477127

Luminaire Tested: **IFLD-M-SA4E-827-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477127  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-827-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (64) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

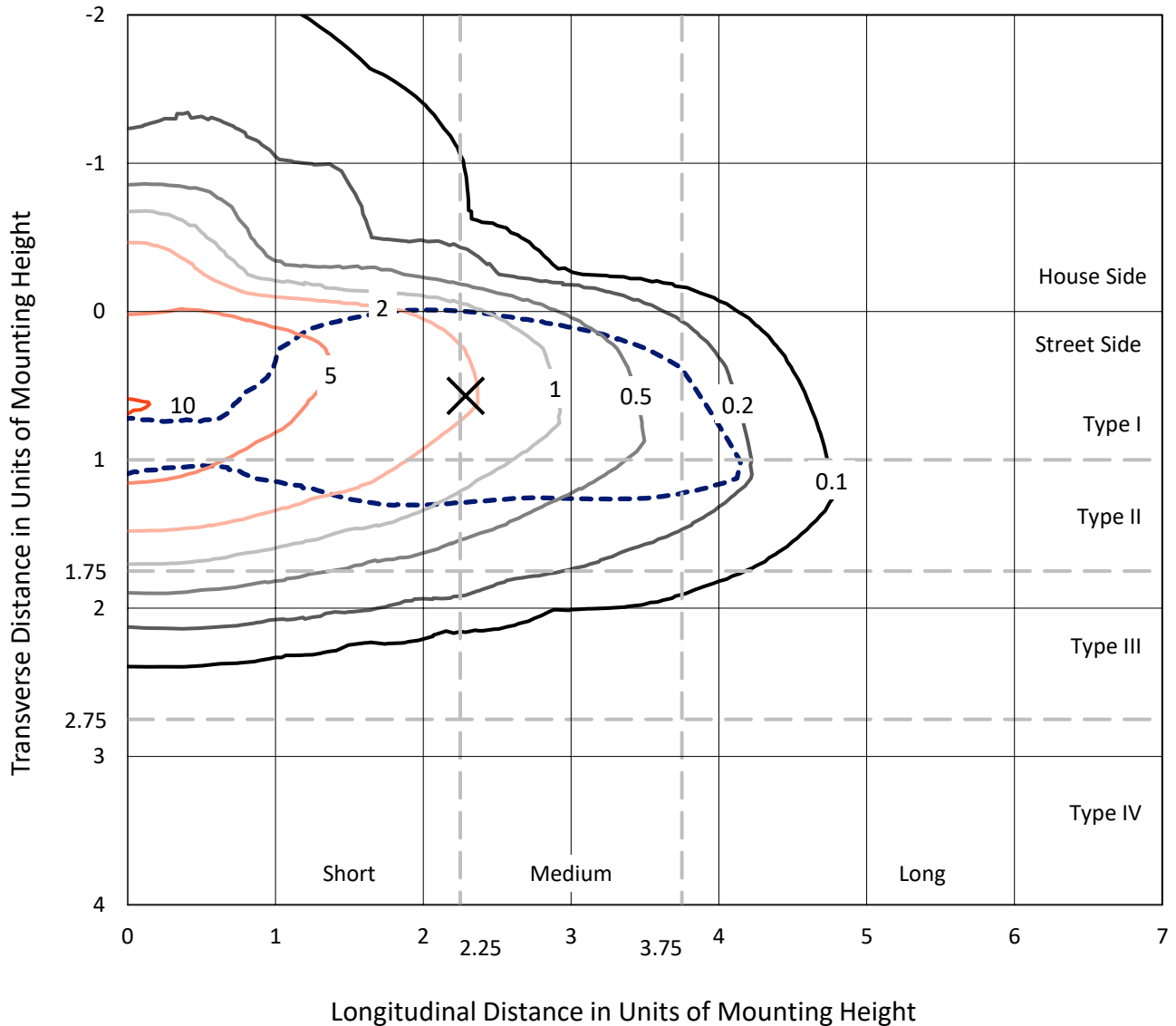
Lumens per Lamp: N/A  
Luminaire Lumens: 26763.6 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 314.8  
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

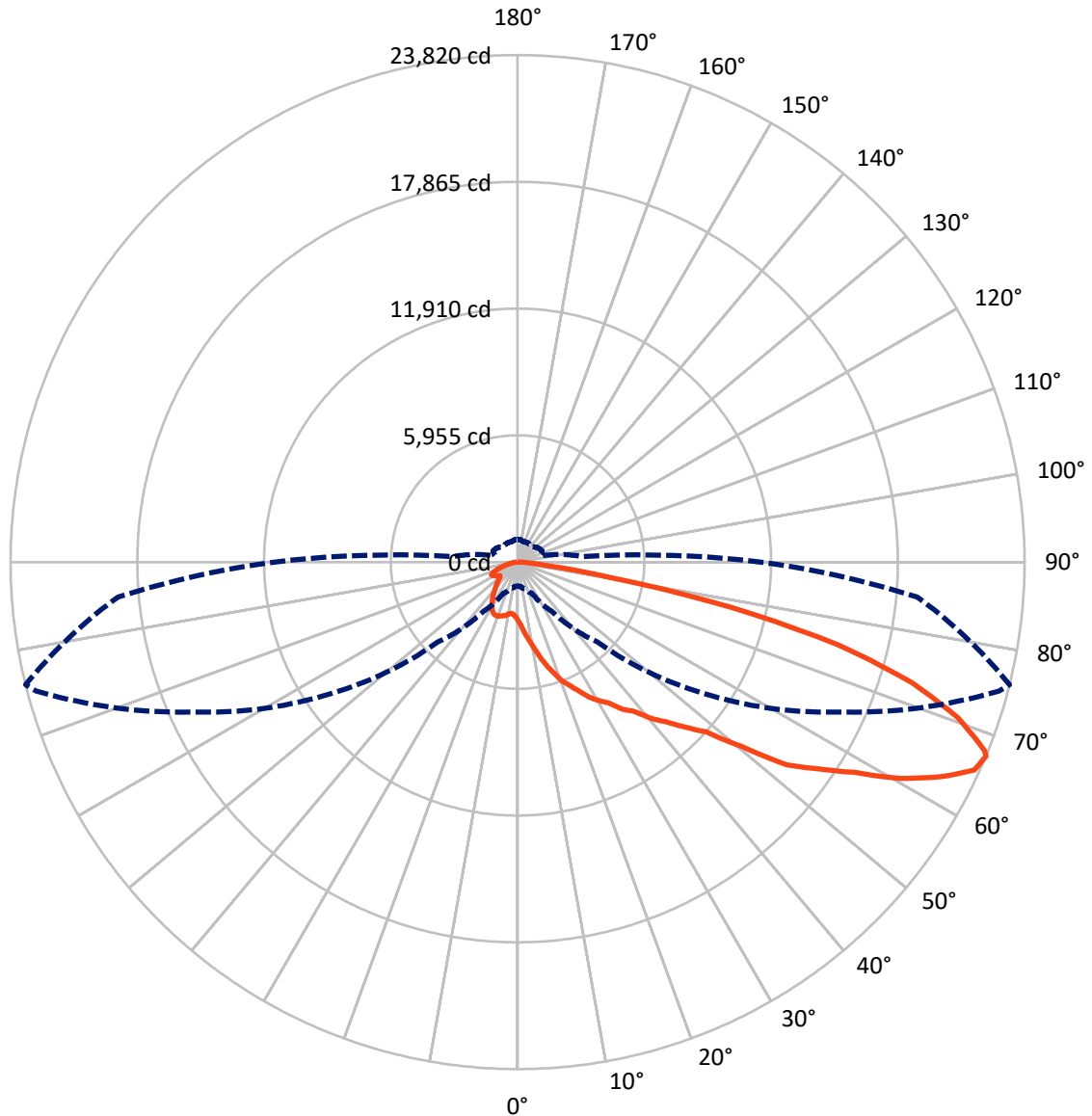
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	3807.4	0.0	3807.4
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	22956.1	0.0	22956.1
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	26763.6	0.0	26763.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.3	1.2
10°-20°	1189.9	4.4
20°-30°	2212.1	8.3
30°-40°	3506.7	13.1
40°-50°	4850.1	18.1
50°-60°	5966.0	22.3
60°-70°	5551.6	20.7
70°-80°	2785.8	10.4
80°-90°	384.1	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°	26763.6	100.0
0°-180°	26763.6	100.0

**Coefficient of Utilization**



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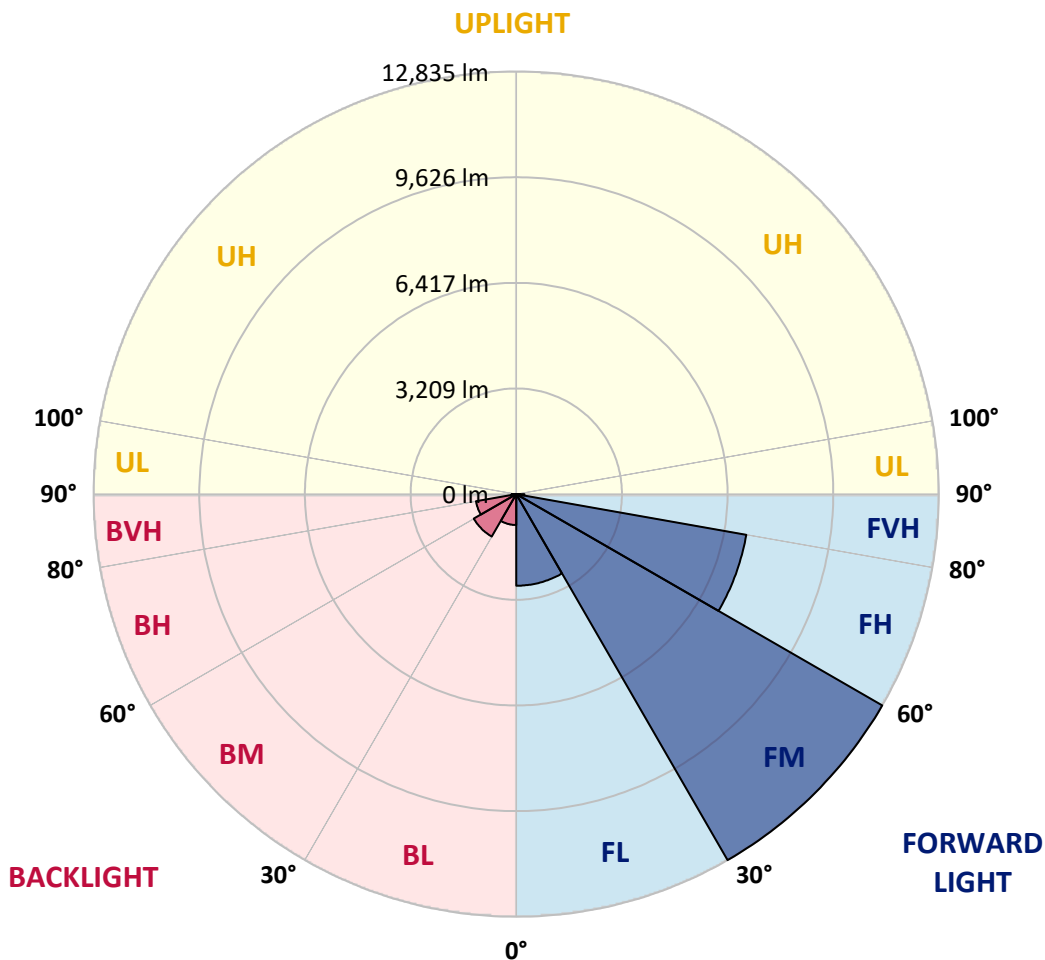
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2781.6	10.4			
FM (30°-60°)	12834.9	48.0			
FH (60°-80°)	7094.8	26.5			G3/7500
FVH (80°-90°)	244.7	0.9			G3/500
BL (0°-30°)	937.6	3.5	B2/1000		
BM (30°-60°)	1487.9	5.6	B2/2500		
BH (60°-80°)	1242.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	139.4	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°	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8
2.5°	3800.2	3754.5	3708.7	3611.1	3577.6	3486.1	3318.3	3132.3	2979.8	2958.4	2851.7
5°	4715.2	4648.1	4632.9	4578.0	4404.1	4227.2	3952.7	3653.8	3281.7	3309.2	2943.2
7.5°	5401.4	5361.8	5279.4	5227.6	5123.9	4889.0	4605.4	4208.9	3736.2	3644.7	3147.5
10°	5919.9	5865.0	5862.0	5816.2	5761.3	5520.4	5303.8	4770.1	4163.2	4038.1	3397.6
12.5°	6182.2	6173.1	6334.7	6334.7	6313.4	6212.7	5840.6	5352.6	4568.8	4526.1	3687.4
15°	6465.9	6389.6	6529.9	6636.7	6691.6	6743.4	6435.4	5919.9	5087.3	5004.9	3998.5
17.5°	6465.9	6459.8	6600.1	6777.0	7063.7	7130.7	6963.0	6441.5	5517.3	5456.3	4340.1
20°	6356.1	6444.5	6542.1	6780.0	7091.1	7362.5	7411.3	6975.2	5993.1	5944.3	4727.4
22.5°	6868.5	6783.1	6883.7	6975.2	7216.1	7627.9	7762.1	7444.9	6493.3	6307.3	5078.1
25°	7728.5	7670.6	7597.4	7463.2	7563.8	7743.8	7948.1	7792.6	6920.3	6712.9	5416.7
27.5°	8567.3	8570.3	8411.7	8118.9	7902.4	7939.0	8179.9	8097.6	7280.2	7188.7	5648.5
30°	9759.8	9686.6	9509.7	9113.2	8689.3	8341.6	8301.9	8381.2	7737.7	7560.8	5980.9
32.5°	10653.4	10668.7	10418.6	9848.2	9268.8	8985.1	8637.4	8671.0	8027.4	7896.3	6246.3
35°	11376.3	11358.0	11181.1	10708.3	10022.1	9680.5	9210.8	9018.7	8701.5	8494.1	6651.9
37.5°	12157.0	12007.6	11720.9	11187.2	10748.0	10275.2	9817.7	9384.7	9149.8	8899.7	6999.6
40°	12471.2	12471.2	12086.9	11842.9	11321.4	10964.5	10668.7	9866.5	9695.7	9646.9	7444.9
42.5°	12248.5	12385.8	12227.2	11949.6	11736.2	11284.8	11205.5	10366.7	10369.8	10272.2	7978.6
45°	12227.2	12038.1	11906.9	11977.1	11876.4	11852.1	12053.3	11059.1	11077.4	11065.2	8695.4
47.5°	11614.2	11528.8	11724.0	11839.9	11922.2	12300.4	12879.9	11885.6	12016.7	11925.2	9521.9
50°	11004.2	10988.9	11110.9	11531.8	11888.6	12510.8	13666.8	13160.5	13590.5	13584.4	11019.4
52.5°	9332.8	9494.4	9973.3	10863.9	11745.3	12797.5	14261.5	14789.1	15609.6	15832.2	12260.7
55°	7734.6	7649.2	8356.8	9650.0	11120.1	12910.4	14926.4	15768.2	16975.9	17137.6	13535.6
57.5°	6017.5	6176.1	6734.3	7975.6	9826.9	12352.2	15414.4	16735.0	18519.2	18644.3	15014.8
60°	4489.5	4510.9	5123.9	6124.3	8106.7	11092.6	15573.0	17726.2	20288.2	20645.0	16564.2
62.5°	2824.2	2952.3	3419.0	4404.1	6102.9	9329.8	14862.3	18327.1	22142.5	22237.1	18125.8
65°	1521.9	1604.3	1955.0	2574.1	4263.8	7057.6	12977.5	17967.2	23014.8	23576.0	18821.2
67°	1125.4	1140.7	1302.3	1643.9	2851.7	5313.0	10821.2	16664.8	23411.3	23820.0	18848.6
67.5°	1055.3	1076.6	1204.7	1476.2	2528.4	4892.1	10256.9	16201.3	23234.4	23673.6	18635.1
70°	902.8	908.9	939.4	1015.6	1418.2	2943.2	6984.4	13276.4	21535.6	21956.5	17137.6
72.5°	802.1	808.2	820.4	835.7	960.7	1701.9	4248.6	10217.3	18717.5	19388.4	14786.1
75°	704.5	725.9	732.0	719.8	817.4	1107.1	2260.0	7508.9	15268.0	15594.3	11498.3
77.5°	597.8	606.9	619.1	631.3	728.9	826.5	1085.8	5069.0	10479.6	10281.3	6218.8
80°	503.2	506.3	515.4	524.6	631.3	631.3	616.1	2738.8	4578.0	4376.7	2101.4
82.5°	359.9	381.2	402.6	427.0	524.6	423.9	402.6	1220.0	1448.7	1378.6	710.6
85°	140.3	170.8	265.3	292.8	332.4	228.7	268.4	527.6	603.9	597.8	265.3
87.5°	24.4	27.4	73.2	112.8	122.0	79.3	128.1	189.1	225.7	244.0	97.6
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°	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8	2738.8
2.5°	2763.2	2668.7	2555.8	2443.0	2369.8	2253.9	2244.8	2174.6	2165.5	2141.1	2153.3
5°	2784.6	2671.7	2443.0	2263.1	2180.7	2113.6	2128.9	2098.4	2089.2	2074.0	2049.6
7.5°	2952.3	2729.7	2388.1	2232.6	2171.6	2141.1	2141.1	2104.5	2077.0	2095.3	2113.6
10°	3062.1	2757.1	2430.8	2275.3	2226.5	2159.4	2183.8	2138.0	2153.3	2116.7	2116.7
12.5°	3239.0	2912.7	2519.2	2339.3	2260.0	2199.0	2223.4	2171.6	2159.4	2162.4	2153.3
15°	3476.9	3016.4	2558.9	2375.9	2321.0	2244.8	2226.5	2180.7	2135.0	2119.7	2138.0
17.5°	3699.6	3144.5	2586.3	2397.2	2308.8	2223.4	2202.1	2144.1	2128.9	2083.1	2046.5
20°	3964.9	3297.0	2622.9	2415.5	2263.1	2177.7	2122.8	2064.8	2013.0	1985.5	1997.7
22.5°	4141.8	3376.3	2641.2	2378.9	2196.0	2116.7	2000.8	1961.1	1887.9	1857.4	1833.0
25°	4431.6	3473.9	2595.5	2278.3	2077.0	1948.9	1845.2	1790.3	1738.5	1698.8	1686.6
27.5°	4504.8	3547.1	2488.7	2107.5	1887.9	1753.7	1665.3	1598.2	1564.6	1503.6	1491.4
30°	4718.3	3473.9	2330.2	1900.1	1708.0	1570.7	1482.3	1433.5	1354.2	1338.9	1305.4
32.5°	4855.5	3495.2	2128.9	1698.8	1500.6	1378.6	1320.6	1271.8	1250.5	1177.3	1159.0
35°	5084.2	3422.0	1924.5	1512.8	1329.8	1235.2	1186.4	1171.2	1101.0	1067.5	1037.0
37.5°	5230.6	3379.3	1720.2	1302.3	1143.7	1104.1	1119.3	1055.3	969.9	905.8	884.5
40°	5486.8	3364.1	1488.4	1128.5	1015.6	1006.5	1055.3	933.3	777.7	722.8	692.3
42.5°	5855.9	3260.4	1308.4	972.9	915.0	954.6	963.8	777.7	689.3	643.5	622.2
45°	6209.7	3281.7	1131.5	805.2	796.0	854.0	832.6	658.8	606.9	573.4	591.7
47.5°	6889.8	3388.5	957.7	671.0	716.7	771.6	646.6	588.6	539.8	515.4	518.5
50°	7942.0	3492.2	805.2	613.0	677.1	698.4	555.1	533.7	530.7	481.9	478.8
52.5°	8573.4	3452.5	777.7	686.2	725.9	698.4	603.9	588.6	564.2	542.9	518.5
55°	9576.8	3568.4	835.7	802.1	823.5	671.0	677.1	671.0	652.7	597.8	613.0
57.5°	10375.9	3644.7	911.9	896.7	884.5	698.4	707.6	710.6	698.4	674.0	695.4
60°	11473.9	3797.2	991.2	994.3	997.3	759.4	774.7	793.0	789.9	780.8	786.9
62.5°	12147.9	3727.0	1079.7	1128.5	1113.2	884.5	881.4	893.6	893.6	908.9	918.0
65°	12047.2	3467.8	1125.4	1247.4	1168.1	976.0	976.0	982.1	985.1	1015.6	1018.7
67°	11443.4	3004.2	1101.0	1265.7	1168.1	1012.6	1012.6	1018.7	997.3	1076.6	1052.2
67.5°	11162.8	2866.9	1079.7	1250.5	1159.0	1009.5	1009.5	1012.6	994.3	1070.5	1046.1
70°	9707.9	2128.9	930.2	1107.1	1073.6	982.1	982.1	963.8	948.5	1049.2	1027.8
72.5°	8286.7	1546.3	747.2	942.4	969.9	945.5	951.6	905.8	863.1	933.3	915.0
75°	6346.9	1137.6	582.5	725.9	820.4	884.5	924.1	808.2	753.3	771.6	738.1
77.5°	3541.0	741.1	460.5	536.8	625.2	823.5	887.5	728.9	616.1	594.7	594.7
80°	1201.7	433.1	338.5	399.5	430.0	728.9	829.6	591.7	484.9	463.6	448.3
82.5°	454.4	265.3	231.8	274.5	274.5	576.4	677.1	454.4	366.0	472.7	481.9
85°	207.4	158.6	152.5	158.6	158.6	353.8	478.8	295.8	329.4	283.6	250.1
87.5°	82.3	76.2	70.1	67.1	54.9	61.0	164.7	79.3	149.4	39.6	36.6
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)