

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: P476892

Luminaire Tested: **IFLD-M-SA4D-727-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476892  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-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: 26309.8 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

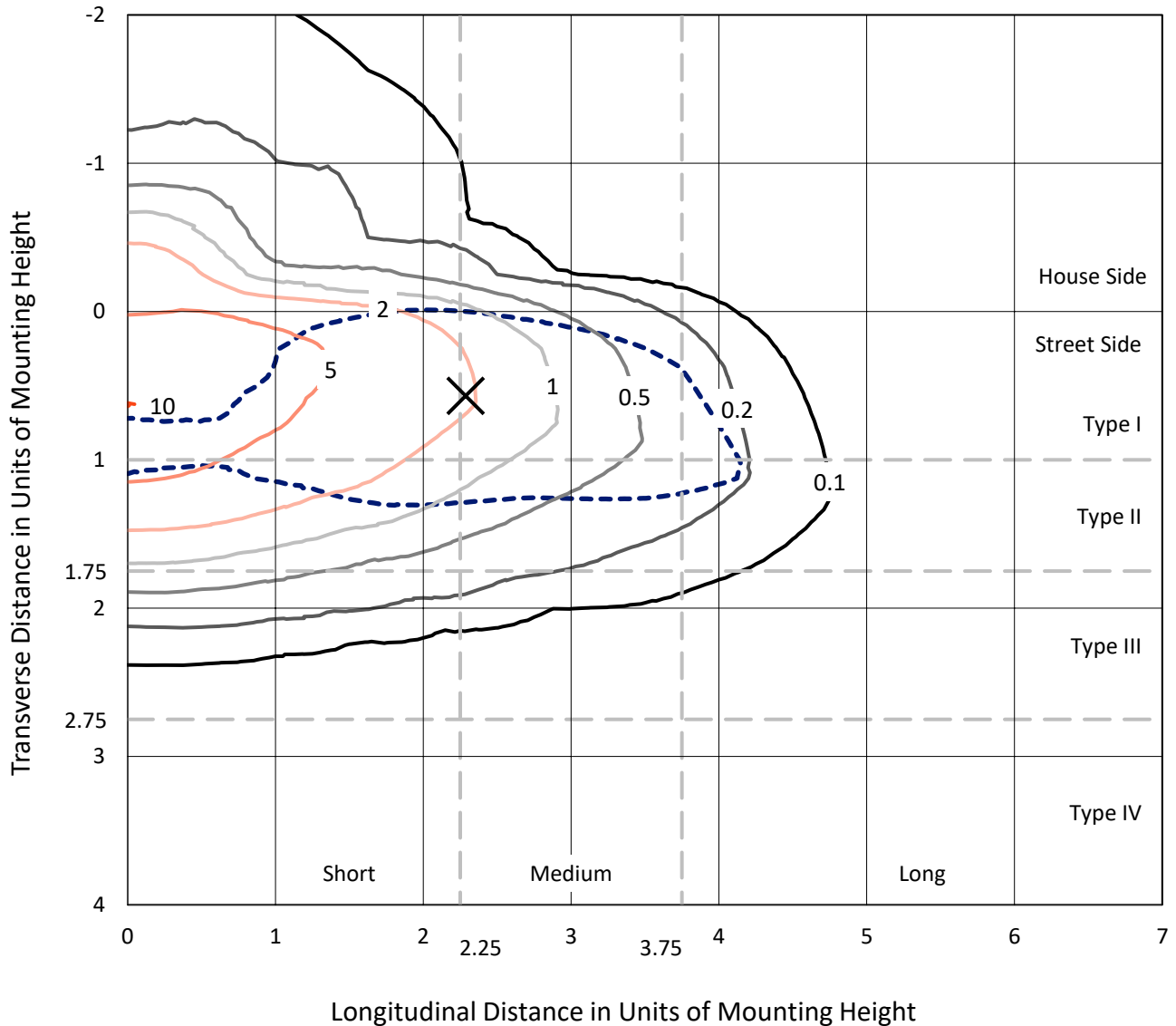
Input Watts (W): 249.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

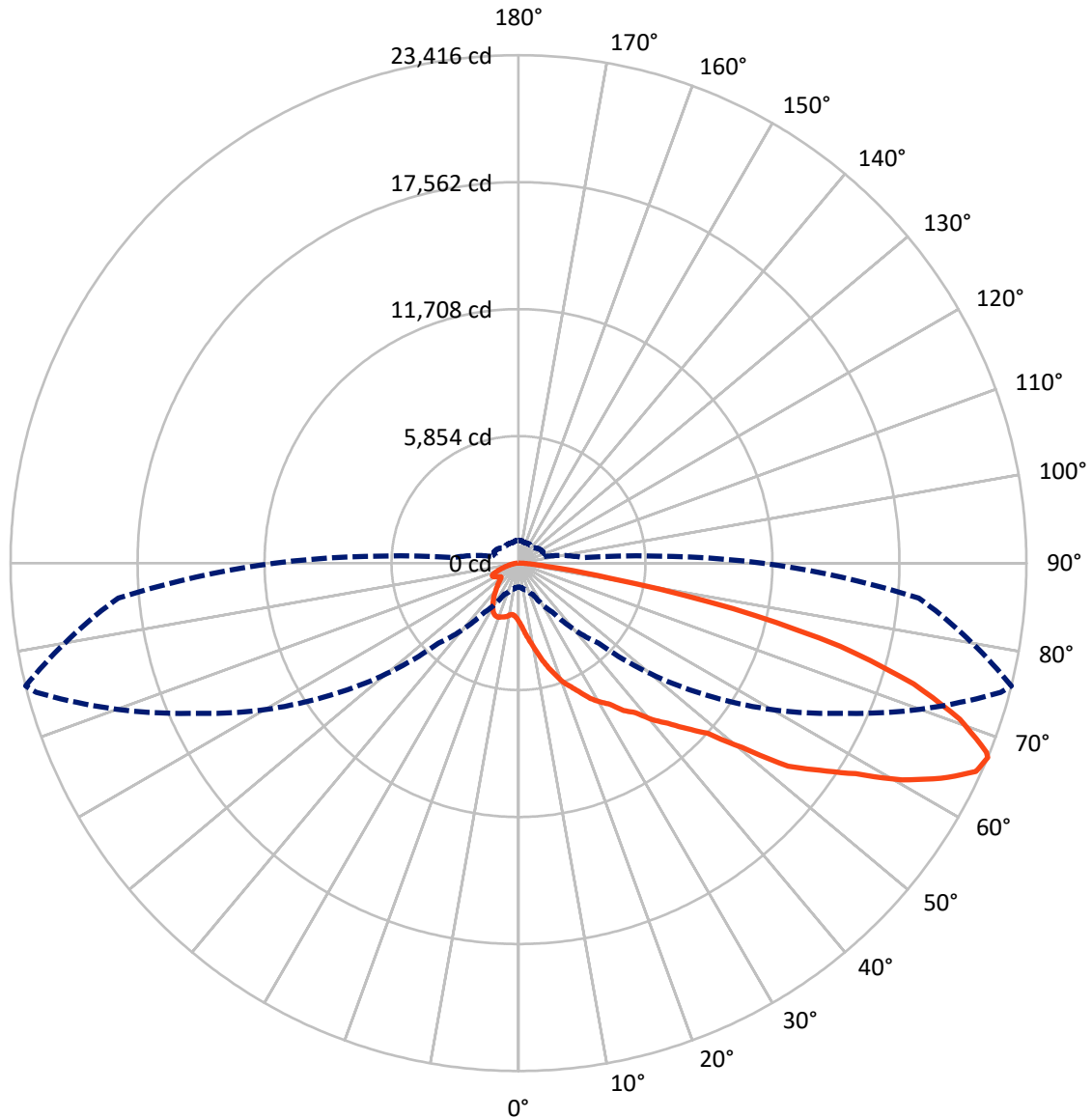
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	3742.9	0.0	3742.9
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	22566.9	0.0	22566.9
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	26309.8	0.0	26309.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.9	1.2
10°-20°	1169.7	4.4
20°-30°	2174.6	8.3
30°-40°	3447.3	13.1
40°-50°	4767.9	18.1
50°-60°	5864.8	22.3
60°-70°	5457.5	20.7
70°-80°	2738.5	10.4
80°-90°	377.6	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°	26309.8	100.0
0°-180°	26309.8	100.0

**Coefficient of Utilization**



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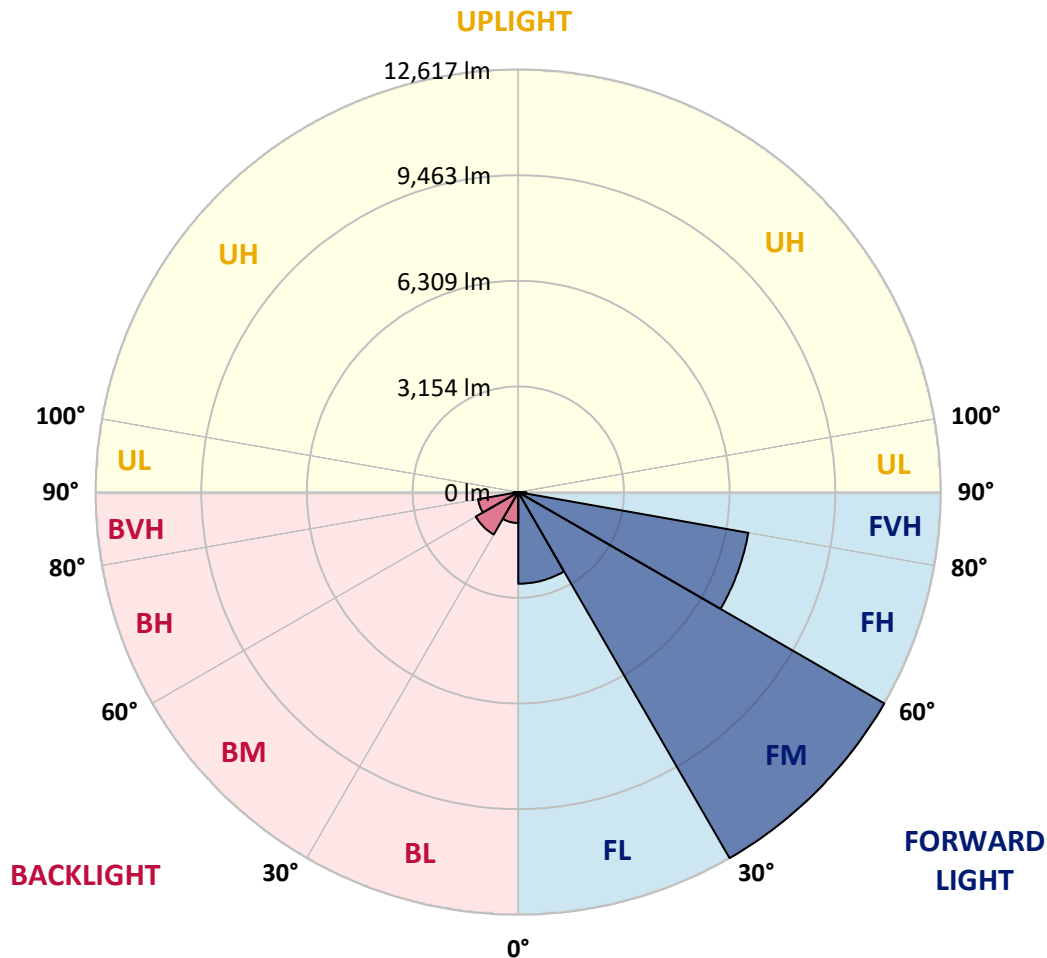
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2734.5	10.4			
FM (30°-60°)	12617.3	48.0			
FH (60°-80°)	6974.5	26.5			G3/7500
FVH (80°-90°)	240.6	0.9			G3/500
BL (0°-30°)	921.7	3.5	B2/1000		
BM (30°-60°)	1462.6	5.6	B2/2500		
BH (60°-80°)	1221.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	137.0	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°	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4
2.5°	3735.8	3690.8	3645.8	3549.9	3516.9	3427.0	3262.1	3079.2	2929.3	2908.3	2803.3
5°	4635.3	4569.3	4554.3	4500.3	4329.4	4155.5	3885.7	3591.9	3226.1	3253.1	2893.3
7.5°	5309.9	5270.9	5189.9	5139.0	5037.0	4806.2	4527.3	4137.5	3672.8	3582.9	3094.2
10°	5819.6	5765.6	5762.6	5717.6	5663.6	5426.8	5213.9	4689.2	4092.6	3969.6	3340.0
12.5°	6077.4	6068.4	6227.3	6227.3	6206.3	6107.4	5741.6	5261.9	4491.3	4449.4	3624.9
15°	6356.2	6281.3	6419.2	6524.1	6578.1	6629.1	6326.3	5819.6	5001.0	4920.1	3930.7
17.5°	6356.2	6350.2	6488.2	6662.1	6943.9	7009.8	6844.9	6332.2	5423.8	5363.8	4266.5
20°	6248.3	6335.2	6431.2	6665.1	6970.9	7237.7	7285.7	6856.9	5891.5	5843.5	4647.2
22.5°	6752.0	6668.0	6767.0	6856.9	7093.8	7498.6	7630.5	7318.7	6383.2	6200.3	4992.0
25°	7597.5	7540.5	7468.6	7336.7	7435.6	7612.5	7813.4	7660.5	6803.0	6599.1	5324.8
27.5°	8422.0	8425.0	8269.1	7981.3	7768.4	7804.4	8041.2	7960.3	7156.8	7066.8	5552.7
30°	9594.3	9522.4	9348.5	8958.7	8541.9	8200.1	8161.2	8239.1	7606.5	7432.6	5879.5
32.5°	10472.8	10487.8	10241.9	9681.3	9111.6	8832.8	8491.0	8523.9	7891.3	7762.4	6140.4
35°	11183.4	11165.4	10991.5	10526.8	9852.2	9516.4	9054.6	8865.7	8553.9	8350.1	6539.1
37.5°	11950.9	11804.0	11522.2	10997.5	10565.7	10101.0	9651.3	9225.5	8994.7	8748.8	6880.9
40°	12259.7	12259.7	11882.0	11642.1	11129.4	10778.6	10487.8	9699.3	9531.4	9483.4	7318.7
42.5°	12040.9	12175.8	12019.9	11747.0	11537.2	11093.4	11015.5	10191.0	10194.0	10098.0	7843.4
45°	12019.9	11834.0	11705.1	11774.0	11675.1	11651.1	11849.0	10871.6	10889.5	10877.6	8547.9
47.5°	11417.2	11333.3	11525.2	11639.1	11720.1	12091.8	12661.5	11684.1	11813.0	11723.1	9360.5
50°	10817.6	10802.6	10922.5	11336.3	11687.1	12298.7	13435.0	12937.3	13360.1	13354.1	10832.6
52.5°	9174.6	9333.5	9804.2	10679.7	11546.2	12580.5	14019.7	14538.4	15344.9	15563.8	12052.9
55°	7603.5	7519.5	8215.1	9486.4	10931.5	12691.5	14673.3	15500.8	16688.1	16847.0	13306.1
57.5°	5915.5	6071.4	6620.1	7840.4	9660.3	12142.8	15153.0	16451.3	18205.2	18328.1	14760.3
60°	4413.4	4434.4	5037.0	6020.4	7969.3	10904.5	15308.9	17425.7	19944.2	20295.0	16283.4
62.5°	2776.4	2902.3	3361.0	4329.4	5999.4	9171.6	14610.3	18016.3	21767.1	21860.0	17818.4
65°	1496.1	1577.1	1921.9	2530.5	4191.5	6937.9	12757.4	17662.5	22624.6	23176.3	18502.0
67°	1106.3	1121.3	1280.2	1616.0	2803.3	5222.9	10637.7	16382.3	23014.4	23416.1	18529.0
67.5°	1037.4	1058.4	1184.3	1451.1	2485.5	4809.2	10083.0	15926.6	22840.5	23272.2	18319.1
70°	887.5	893.5	923.5	998.4	1394.2	2893.3	6865.9	13051.3	21170.5	21584.2	16847.0
72.5°	788.5	794.5	806.5	821.5	944.4	1673.0	4176.5	10044.0	18400.1	19059.7	14535.4
75°	692.6	713.6	719.6	707.6	803.5	1088.4	2221.7	7381.6	15009.1	15329.9	11303.3
77.5°	587.7	596.6	608.6	620.6	716.6	812.5	1067.4	4983.0	10301.9	10107.0	6113.4
80°	494.7	497.7	506.7	515.7	620.6	620.6	605.6	2692.4	4500.3	4302.5	2065.8
82.5°	353.8	374.8	395.8	419.8	515.7	416.8	395.8	1199.3	1424.2	1355.2	698.6
85°	137.9	167.9	260.8	287.8	326.8	224.9	263.8	518.7	593.6	587.7	260.8
87.5°	24.0	27.0	72.0	110.9	119.9	78.0	125.9	185.9	221.9	239.9	95.9
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°	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4
2.5°	2716.4	2623.4	2512.5	2401.6	2329.6	2215.7	2206.7	2137.7	2128.7	2104.8	2116.7
5°	2737.4	2626.4	2401.6	2224.7	2143.7	2077.8	2092.8	2062.8	2053.8	2038.8	2014.8
7.5°	2902.3	2683.4	2347.6	2194.7	2134.7	2104.8	2104.8	2068.8	2041.8	2059.8	2077.8
10°	3010.2	2710.4	2389.6	2236.7	2188.7	2122.7	2146.7	2101.8	2116.7	2080.8	2080.8
12.5°	3184.1	2863.3	2476.5	2299.6	2221.7	2161.7	2185.7	2134.7	2122.7	2125.7	2116.7
15°	3418.0	2965.2	2515.5	2335.6	2281.6	2206.7	2188.7	2143.7	2098.8	2083.8	2101.8
17.5°	3636.8	3091.2	2542.5	2356.6	2269.7	2185.7	2164.7	2107.8	2092.8	2047.8	2011.8
20°	3897.7	3241.1	2578.5	2374.6	2224.7	2140.7	2086.8	2029.8	1978.8	1951.8	1963.8
22.5°	4071.6	3319.0	2596.5	2338.6	2158.7	2080.8	1966.8	1927.9	1855.9	1825.9	1801.9
25°	4356.4	3415.0	2551.5	2239.7	2041.8	1915.9	1813.9	1760.0	1709.0	1670.0	1658.0
27.5°	4428.4	3486.9	2446.6	2071.8	1855.9	1724.0	1637.0	1571.1	1538.1	1478.1	1466.1
30°	4638.3	3415.0	2290.6	1867.9	1679.0	1544.1	1457.1	1409.2	1331.2	1316.2	1283.2
32.5°	4773.2	3436.0	2092.8	1670.0	1475.1	1355.2	1298.2	1250.3	1229.3	1157.3	1139.3
35°	4998.0	3364.0	1891.9	1487.1	1307.2	1214.3	1166.3	1151.3	1082.4	1049.4	1019.4
37.5°	5142.0	3322.0	1691.0	1280.2	1124.3	1085.4	1100.3	1037.4	953.4	890.5	869.5
40°	5393.8	3307.0	1463.1	1109.3	998.4	989.4	1037.4	917.5	764.5	710.6	680.6
42.5°	5756.6	3205.1	1286.2	956.4	899.5	938.4	947.4	764.5	677.6	632.6	611.6
45°	6104.4	3226.1	1112.3	791.5	782.5	839.5	818.5	647.6	596.6	563.7	581.7
47.5°	6773.0	3331.0	941.4	659.6	704.6	758.6	635.6	578.7	530.7	506.7	509.7
50°	7807.4	3433.0	791.5	602.6	665.6	686.6	545.7	524.7	521.7	473.7	470.7
52.5°	8428.0	3394.0	764.5	674.6	713.6	686.6	593.6	578.7	554.7	533.7	509.7
55°	9414.4	3507.9	821.5	788.5	809.5	659.6	665.6	659.6	641.6	587.7	602.6
57.5°	10200.0	3582.9	896.5	881.5	869.5	686.6	695.6	698.6	686.6	662.6	683.6
60°	11279.3	3732.8	974.4	977.4	980.4	746.6	761.5	779.5	776.5	767.5	773.5
62.5°	11941.9	3663.8	1061.4	1109.3	1094.4	869.5	866.5	878.5	878.5	893.5	902.5
65°	11843.0	3409.0	1106.3	1226.3	1148.3	959.4	959.4	965.4	968.4	998.4	1001.4
67°	11249.3	2953.3	1082.4	1244.3	1148.3	995.4	995.4	1001.4	980.4	1058.4	1034.4
67.5°	10973.5	2818.3	1061.4	1229.3	1139.3	992.4	992.4	995.4	977.4	1052.4	1028.4
70°	9543.3	2092.8	914.5	1088.4	1055.4	965.4	965.4	947.4	932.4	1031.4	1010.4
72.5°	8146.2	1520.1	734.6	926.5	953.4	929.4	935.4	890.5	848.5	917.5	899.5
75°	6239.3	1118.3	572.7	713.6	806.5	869.5	908.5	794.5	740.6	758.6	725.6
77.5°	3480.9	728.6	452.7	527.7	614.6	809.5	872.5	716.6	605.6	584.7	584.7
80°	1181.3	425.7	332.8	392.8	422.7	716.6	815.5	581.7	476.7	455.7	440.7
82.5°	446.7	260.8	227.9	269.8	269.8	566.7	665.6	446.7	359.8	464.7	473.7
85°	203.9	155.9	149.9	155.9	155.9	347.8	470.7	290.8	323.8	278.8	245.9
87.5°	81.0	75.0	69.0	66.0	54.0	60.0	161.9	78.0	146.9	39.0	36.0
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)