

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: P476743

Luminaire Tested: **IFLD-L-SA8A-827-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476743  
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-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

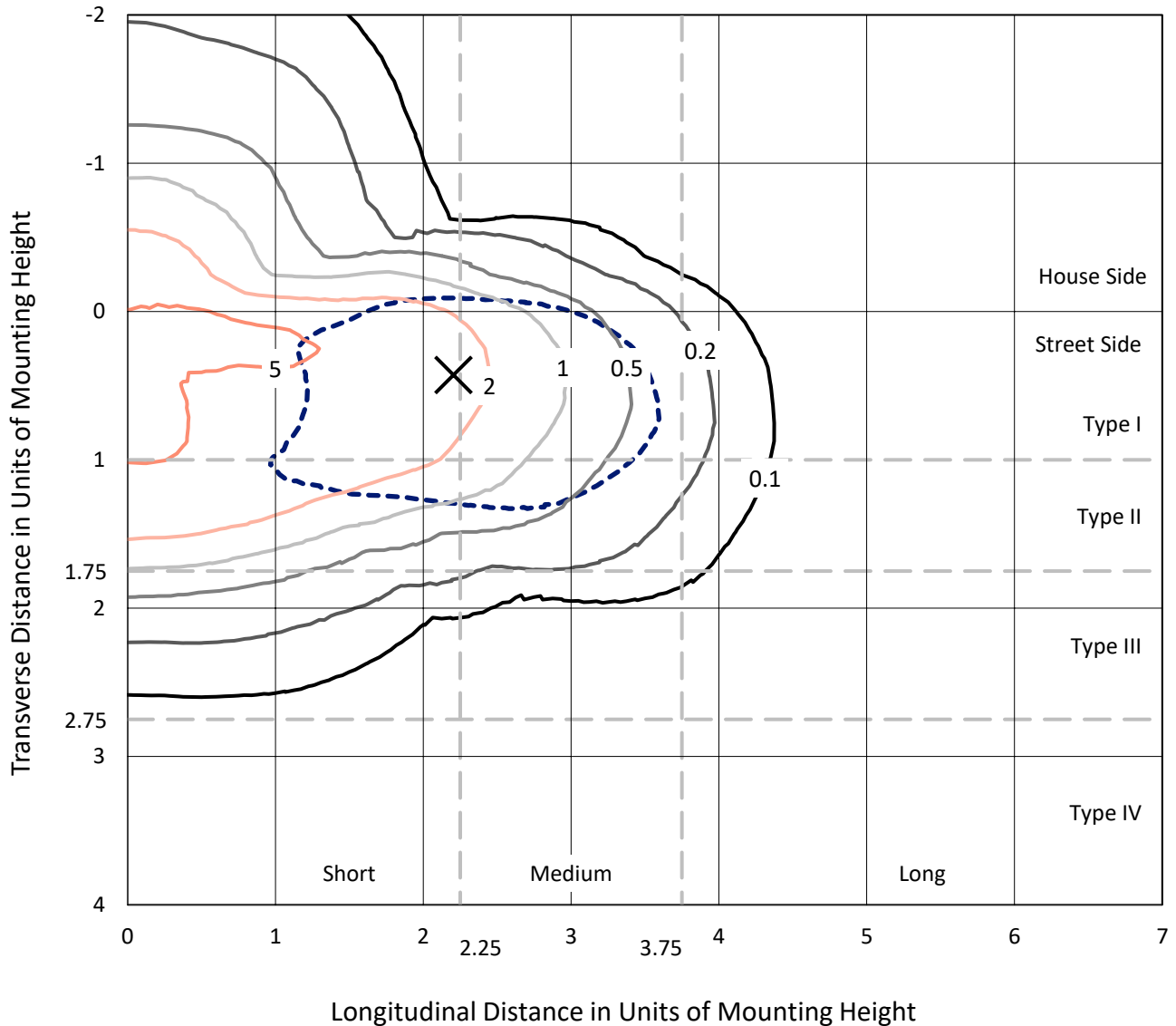
Lumens per Lamp: N/A  
Luminaire Lumens: 25151.4 lumens  
Efficiency: N/A  
Efficacy: 101.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

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

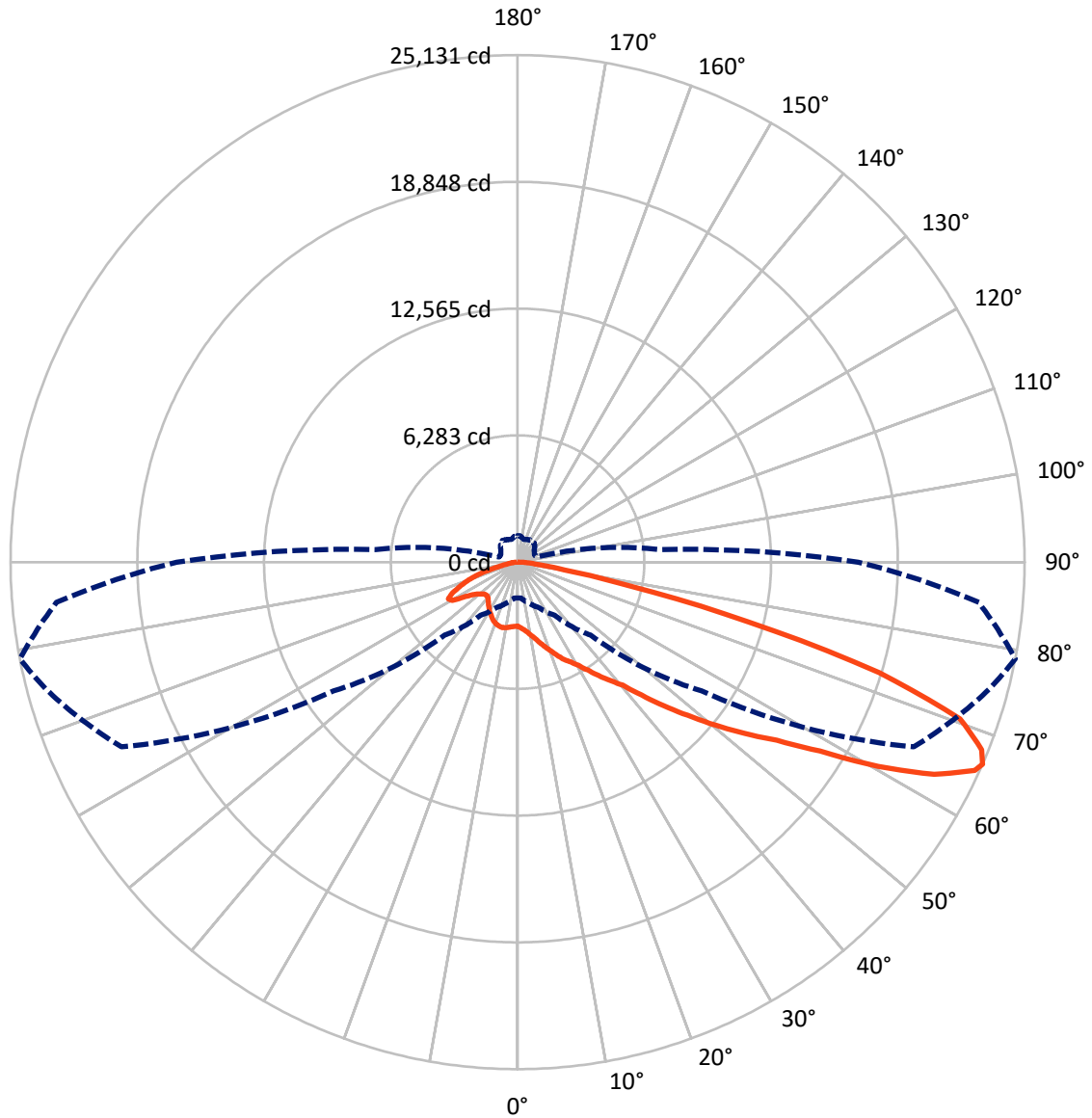
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5079.0	0.0	5079.0
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	20072.4	0.0	20072.4
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	25151.4	0.0	25151.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.3	1.2
10°-20°	964.3	3.8
20°-30°	1655.3	6.6
30°-40°	2557.1	10.2
40°-50°	4095.8	16.3
50°-60°	6115.4	24.3
60°-70°	6283.5	25.0
70°-80°	2785.4	11.1
80°-90°	382.2	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°	25151.4	100.0
0°-180°	25151.4	100.0

**Coefficient of Utilization**



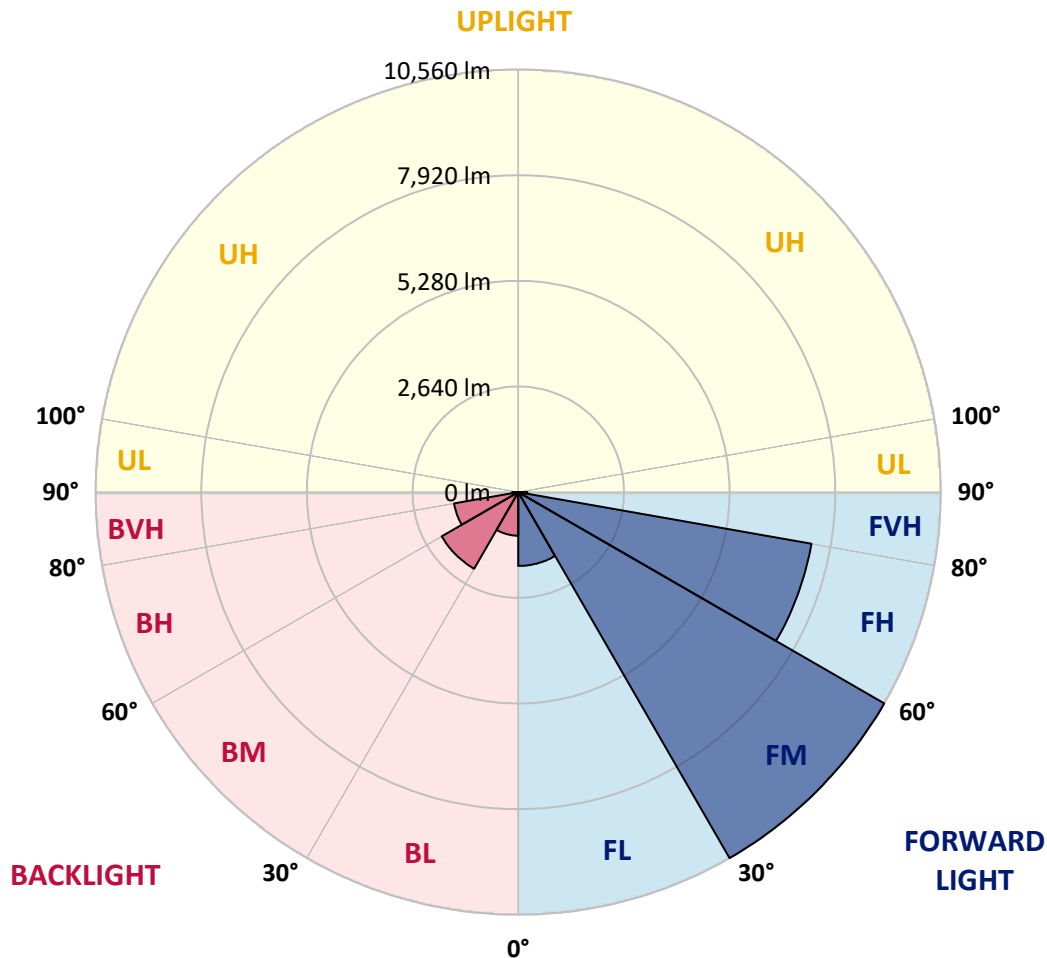
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1843.8	7.3			
FM (30°-60°)	10560.2	42.0			
FH (60°-80°)	7439.2	29.6			G3/7500
FVH (80°-90°)	229.2	0.9			G3/500
BL (0°-30°)	1088.2	4.3	B3/2500		
BM (30°-60°)	2208.1	8.8	B2/2500		
BH (60°-80°)	1629.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	153.0	0.6			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3175.9	3175.9	3175.9	3175.9	3175.9	3175.9	3175.9	3175.9	3175.9	3175.9	3175.9
2.5°	3377.9	3380.6	3380.6	3369.6	3372.3	3380.6	3350.2	3283.8	3283.8	3272.7	3253.4
5°	3585.4	3571.5	3552.2	3554.9	3543.9	3543.9	3510.7	3447.0	3391.7	3369.6	3311.5
7.5°	3613.0	3626.9	3624.1	3657.3	3673.9	3673.9	3690.5	3637.9	3554.9	3502.4	3444.3
10°	3668.4	3632.4	3629.6	3707.1	3732.0	3790.1	3856.5	3828.8	3759.6	3685.0	3607.5
12.5°	3701.6	3723.7	3723.7	3762.4	3820.5	3906.3	4022.5	4075.0	3967.1	3889.7	3770.7
15°	3751.3	3720.9	3809.4	3842.6	3953.3	4014.2	4180.2	4315.7	4243.8	4149.7	3961.6
17.5°	3773.5	3754.1	3803.9	3864.8	4052.9	4144.2	4346.1	4534.3	4473.4	4412.5	4218.9
20°	3886.9	3884.1	3906.3	3956.1	4091.6	4271.4	4523.2	4783.2	4805.4	4694.7	4431.9
22.5°	4163.6	4127.6	4127.6	4108.2	4166.3	4351.7	4692.0	5051.6	5151.2	5021.2	4672.6
25°	4418.1	4467.9	4437.4	4348.9	4326.8	4423.6	4813.7	5336.5	5469.3	5347.6	4999.0
27.5°	4744.5	4761.1	4813.7	4694.7	4542.6	4573.0	4946.5	5497.0	5770.9	5607.7	5184.4
30°	5214.8	5184.4	5173.3	5040.5	4841.3	4799.8	5098.6	5732.1	6166.5	5936.9	5402.9
32.5°	5533.0	5607.7	5604.9	5422.3	5181.6	5090.3	5286.7	5953.5	6589.8	6376.7	5806.8
35°	6163.7	6241.2	6180.3	5912.0	5629.8	5447.2	5557.9	6241.2	7073.9	6907.9	6149.9
37.5°	6968.8	7151.4	7021.3	6526.1	6127.8	5928.6	5934.1	6553.8	7569.1	7433.5	6517.8
40°	7524.8	7771.0	7591.2	7126.5	6703.2	6515.1	6440.4	6924.5	8161.1	8017.3	7093.3
42.5°	8213.7	8418.4	8324.3	7865.1	7369.9	7209.4	7060.1	7544.2	9065.8	8999.4	7831.9
45°	8966.2	9063.0	9032.6	8742.1	8191.6	8136.2	7807.0	8360.3	10130.9	10158.5	8755.9
47.5°	9666.1	9718.6	9776.7	9566.5	9223.4	9270.5	8667.4	9234.5	11165.5	11348.1	9785.0
50°	9845.9	10025.7	10161.3	10302.4	10377.1	10695.2	9616.3	10307.9	12355.1	12709.2	10930.4
52.5°	9663.3	9649.5	10061.7	10504.3	11251.3	11918.0	10908.2	11641.4	13406.4	14106.3	11978.9
55°	8833.4	8805.7	9469.7	10056.2	11514.1	12598.6	12753.5	13417.4	14676.2	15586.4	13398.1
57.5°	7381.0	7209.4	7934.3	8897.0	10944.2	12673.2	14607.0	16053.9	16629.3	17666.7	15564.2
60°	4960.3	4888.4	5582.8	6730.8	8885.9	11613.7	15716.4	19354.3	19382.0	20549.4	18925.5
62.5°	3054.2	3068.0	3513.4	4373.8	6221.8	9206.8	15237.8	21990.8	21996.3	23166.5	21692.0
65°	1997.4	2005.7	2365.3	2841.2	3886.9	6243.9	12601.3	22198.2	23813.9	24901.1	22959.0
66°	1778.8	1781.6	2091.5	2478.8	3220.2	5109.7	11129.6	21658.8	24223.3	25130.7	22942.4
67.5°	1499.4	1535.4	1784.4	2083.2	2512.0	3671.1	8830.6	20098.5	24013.1	24809.8	22422.3
70°	1173.0	1192.4	1388.8	1693.1	1884.0	2124.7	5248.0	16383.1	21979.7	23271.6	20530.1
72.5°	940.6	957.2	1106.6	1374.9	1529.9	1399.8	2857.8	11887.6	17362.4	18740.1	16148.0
75°	794.0	796.7	868.7	1081.7	1258.7	1051.3	1521.6	7630.0	11140.6	11782.4	9892.9
77.5°	641.8	652.9	702.7	824.4	1012.5	827.2	907.4	4274.2	5593.8	5640.9	4573.0
80°	522.9	528.4	558.8	600.3	771.8	611.4	614.2	2085.9	2398.5	2343.2	1859.1
82.5°	412.2	417.7	453.7	445.4	567.1	437.1	381.8	1004.2	1103.8	1081.7	854.8
85°	232.4	232.4	356.9	356.9	359.6	276.6	232.4	473.1	583.7	545.0	401.1
87.5°	74.7	77.5	107.9	113.4	179.8	124.5	113.4	177.1	276.6	243.5	143.9
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°	3175.9	3175.9	3175.9	3175.9	3175.9	3175.9	3175.9	3175.9	3175.9	3175.9	3175.9
2.5°	3242.3	3198.1	3178.7	3115.1	3098.5	3057.0	3037.6	3012.7	3004.4	2968.4	3001.6
5°	3267.2	3253.4	3175.9	3095.7	3034.8	3007.2	2965.7	2910.3	2904.8	2855.0	2849.5
7.5°	3372.3	3325.3	3189.8	3104.0	2982.3	2913.1	2821.8	2794.1	2758.2	2741.6	2777.5
10°	3535.6	3416.6	3214.7	2998.9	2849.5	2766.5	2700.1	2680.7	2683.5	2672.4	2655.8
12.5°	3651.8	3538.3	3173.2	2910.3	2716.7	2636.5	2630.9	2650.3	2680.7	2666.9	2686.3
15°	3817.7	3604.7	3142.7	2763.7	2608.8	2586.7	2583.9	2642.0	2639.2	2639.2	2636.5
17.5°	3972.7	3671.1	3032.1	2636.5	2495.4	2512.0	2531.3	2528.6	2556.2	2567.3	2586.7
20°	4169.1	3748.6	2877.1	2509.2	2409.6	2404.1	2401.3	2404.1	2431.7	2448.3	2434.5
22.5°	4340.6	3765.2	2747.1	2387.5	2307.2	2285.1	2249.1	2285.1	2271.3	2276.8	2293.4
25°	4490.0	3767.9	2561.8	2296.2	2204.9	2155.1	2127.4	2124.7	2099.8	2097.0	2097.0
27.5°	4614.5	3673.9	2398.5	2168.9	2083.2	2036.1	2033.4	2002.9	1939.3	1897.8	1903.3
30°	4711.3	3602.0	2285.1	2058.3	1975.3	1967.0	1942.1	1872.9	1789.9	1737.4	1737.4
32.5°	4882.8	3458.1	2130.2	1944.8	1903.3	1892.3	1834.2	1773.3	1695.9	1646.1	1637.8
35°	5010.1	3325.3	2027.8	1848.0	1828.6	1806.5	1756.7	1690.3	1668.2	1657.1	1665.4
37.5°	5154.0	3175.9	1903.3	1765.0	1784.4	1742.9	1684.8	1654.4	1731.8	1712.5	1720.8
40°	5383.6	3070.8	1781.6	1715.2	1734.6	1687.6	1612.9	1601.8	1698.6	1629.5	1612.9
42.5°	5804.1	3068.0	1706.9	1640.5	1654.4	1618.4	1552.0	1546.5	1585.2	1502.2	1477.3
45°	6326.9	3164.9	1651.6	1585.2	1574.1	1568.6	1546.5	1521.6	1488.4	1380.5	1352.8
47.5°	6952.2	3322.5	1640.5	1502.2	1516.0	1563.1	1535.4	1471.8	1386.0	1316.8	1303.0
50°	7710.2	3649.0	1612.9	1441.3	1466.2	1540.9	1518.8	1430.3	1352.8	1308.5	1300.2
52.5°	8548.4	4061.2	1576.9	1347.3	1402.6	1521.6	1532.6	1449.6	1336.2	1297.5	1291.9
55°	9536.1	4669.8	1535.4	1244.9	1327.9	1502.2	1532.6	1394.3	1314.1	1314.1	1308.5
57.5°	11486.4	5765.3	1449.6	1150.9	1261.5	1466.2	1488.4	1397.1	1316.8	1316.8	1305.8
60°	14347.0	7475.0	1286.4	1078.9	1197.9	1416.4	1455.2	1355.6	1286.4	1303.0	1300.2
62.5°	16585.1	7995.1	1148.1	1009.8	1134.3	1325.1	1410.9	1311.3	1250.4	1311.3	1316.8
65°	17063.7	7469.5	1007.0	935.1	1045.7	1236.6	1347.3	1247.7	1197.9	1316.8	1322.4
66°	16892.1	7060.1	957.2	912.9	1007.0	1192.4	1308.5	1225.6	1170.2	1311.3	1314.1
67.5°	16128.6	6445.9	901.9	865.9	954.4	1128.7	1264.3	1195.1	1126.0	1294.7	1269.8
70°	14468.7	5466.6	807.8	782.9	879.7	1023.6	1161.9	1117.7	1056.8	1192.4	1148.1
72.5°	11143.4	4368.3	708.2	711.0	794.0	915.7	1059.6	1029.1	976.6	1045.7	1018.1
75°	6786.2	2791.4	616.9	622.5	691.6	813.3	962.7	940.6	877.0	915.7	901.9
77.5°	3007.2	1383.2	520.1	531.2	586.5	716.5	838.2	802.3	735.9	744.2	738.7
80°	1167.5	655.7	423.3	437.1	473.1	572.7	694.4	661.2	603.1	592.0	586.5
82.5°	561.6	365.2	326.4	332.0	345.8	456.5	597.6	556.1	478.6	428.8	428.8
85°	282.2	226.9	229.6	210.3	229.6	309.8	403.9	337.5	279.4	249.0	254.5
87.5°	113.4	113.4	113.4	96.8	102.4	146.6	188.1	127.3	116.2	69.2	69.2
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)