

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: P476651

Luminaire Tested: **IFLD-S-SA6B-750-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476651
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-750-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

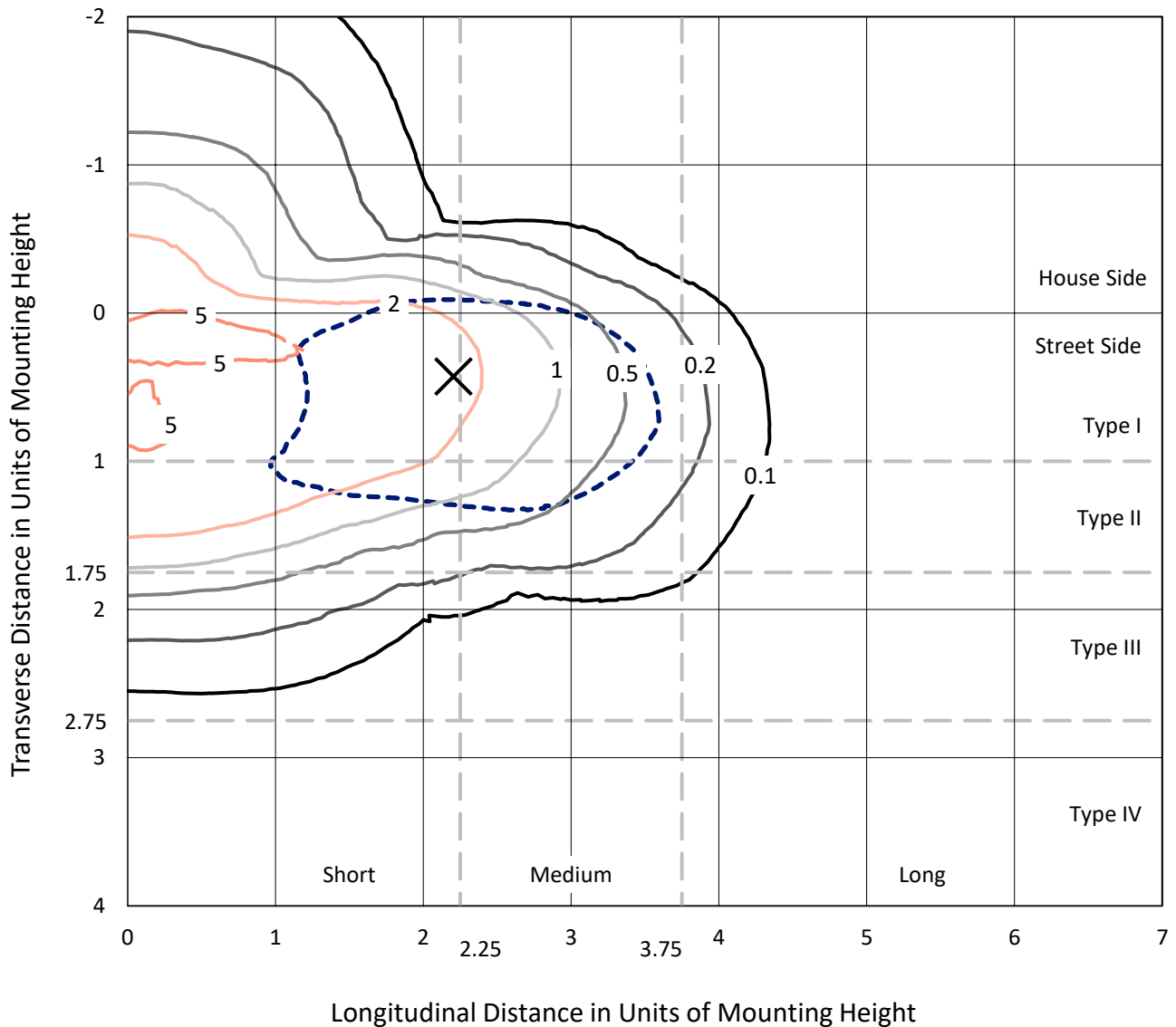
Lumens per Lamp: N/A
Luminaire Lumens: 34102.9 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9
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

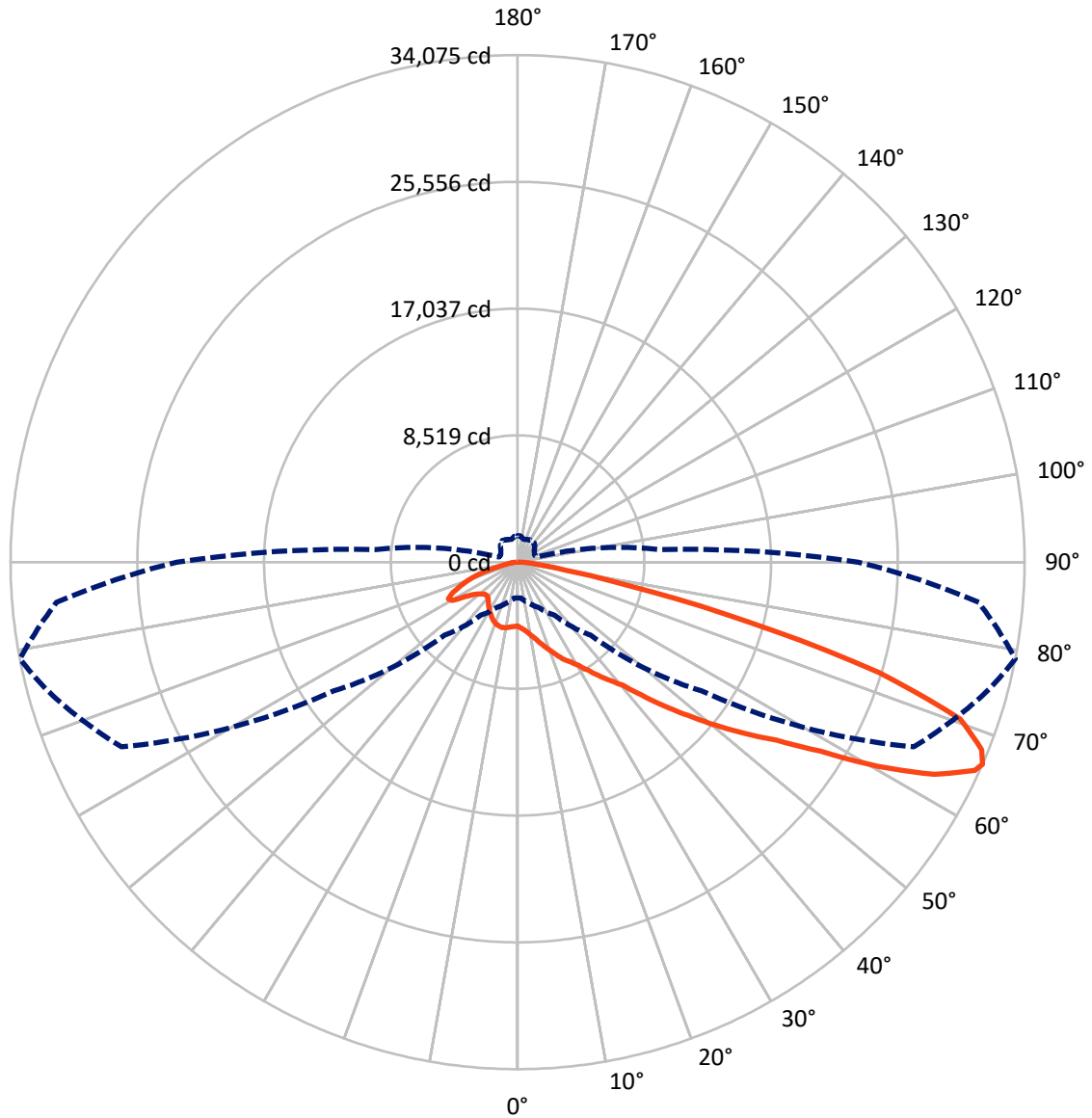
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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
House Side	Lumens	6886.6	0.0	6886.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	27216.3	0.0	27216.3
	% Fixture	79.8	0.0	79.8
Total	Lumens	34102.9	0.0	34102.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.4	1.2
10°-20°	1307.5	3.8
20°-30°	2244.4	6.6
30°-40°	3467.2	10.2
40°-50°	5553.6	16.3
50°-60°	8291.9	24.3
60°-70°	8519.9	25.0
70°-80°	3776.7	11.1
80°-90°	518.2	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°	34102.9	100.0
0°-180°	34102.9	100.0

Coefficient of Utilization



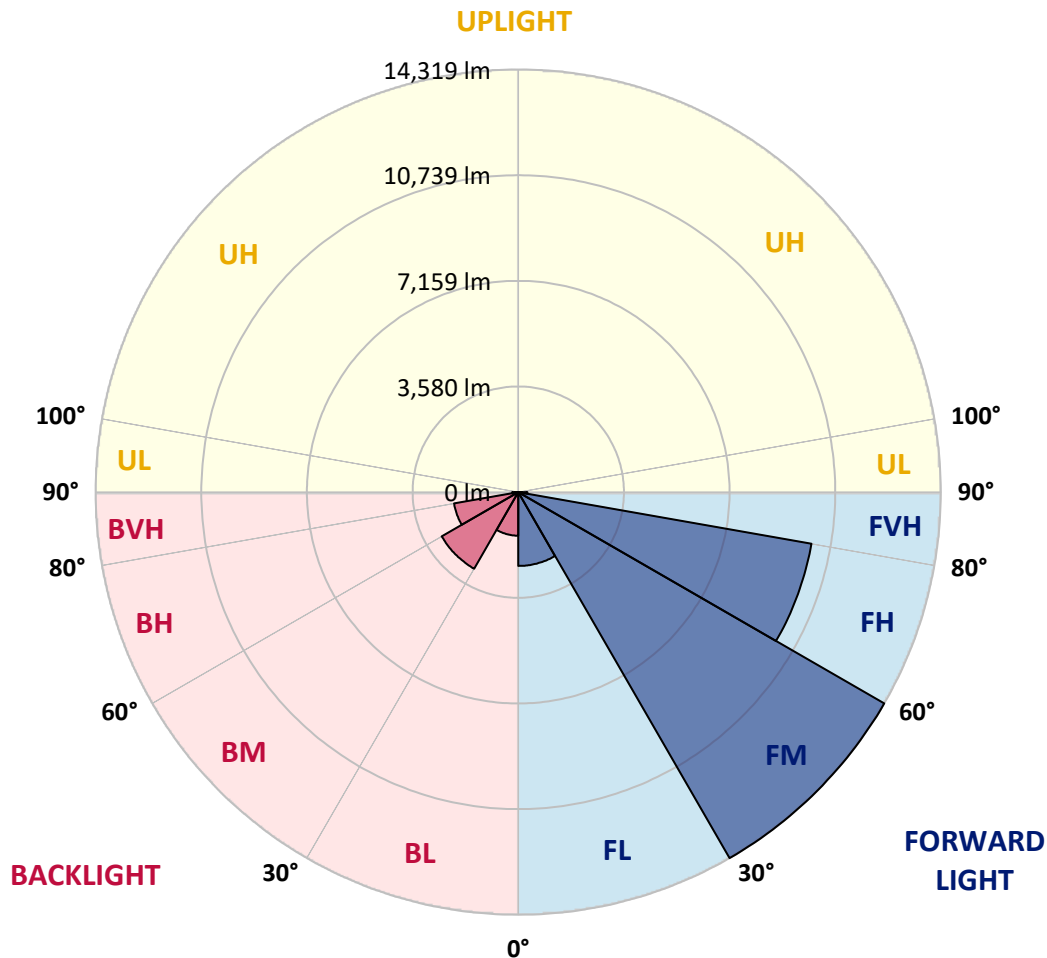
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2500.0	7.3			
FM (30°-60°)	14318.6	42.0			
FH (60°-80°)	10086.9	29.6			G4/12000
FVH (80°-90°)	310.8	0.9			G3/500
BL (0°-30°)	1475.4	4.3	B3/2500		
BM (30°-60°)	2994.0	8.8	B3/5000		
BH (60°-80°)	2209.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	207.4	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4306.2	4306.2	4306.2	4306.2	4306.2	4306.2	4306.2	4306.2	4306.2	4306.2	4306.2
2.5°	4580.1	4583.8	4583.8	4568.8	4572.6	4583.8	4542.6	4452.5	4452.5	4437.5	4411.3
5°	4861.4	4842.7	4816.4	4820.1	4805.1	4805.1	4760.1	4673.9	4598.8	4568.8	4490.0
7.5°	4898.9	4917.7	4913.9	4958.9	4981.4	4981.4	5003.9	4932.7	4820.1	4748.9	4670.1
10°	4973.9	4925.2	4921.4	5026.5	5060.2	5139.0	5229.0	5191.5	5097.7	4996.4	4891.4
12.5°	5019.0	5049.0	5049.0	5101.5	5180.2	5296.5	5454.1	5525.3	5379.1	5274.0	5112.7
15°	5086.5	5045.2	5165.2	5210.3	5360.3	5442.8	5667.9	5851.7	5754.2	5626.6	5371.6
17.5°	5116.5	5090.2	5157.7	5240.3	5495.3	5619.1	5893.0	6148.0	6065.5	5983.0	5720.4
20°	5270.3	5266.5	5296.5	5364.1	5547.9	5791.7	6133.0	6485.6	6515.6	6365.6	6009.2
22.5°	5645.4	5596.6	5596.6	5570.4	5649.1	5900.5	6361.8	6849.5	6984.5	6808.2	6335.6
25°	5990.5	6058.0	6016.7	5896.7	5866.7	5998.0	6526.9	7235.8	7415.9	7250.8	6778.2
27.5°	6433.1	6455.6	6526.9	6365.6	6159.3	6200.5	6706.9	7453.4	7824.8	7603.4	7029.5
30°	7070.8	7029.5	7014.5	6834.5	6564.4	6508.1	6913.2	7772.2	8361.2	8049.8	7325.9
32.5°	7502.2	7603.4	7599.7	7352.1	7025.8	6902.0	7168.3	8072.3	8935.1	8646.3	7873.5
35°	8357.4	8462.4	8379.9	8016.1	7633.5	7385.9	7535.9	8462.4	9591.5	9366.5	8338.7
37.5°	9449.0	9696.6	9520.3	8848.8	8308.7	8038.6	8046.1	8886.3	10263.0	10079.2	8837.6
40°	10203.0	10536.8	10293.0	9662.8	9088.9	8833.8	8732.5	9389.0	11065.7	10870.6	9617.8
42.5°	11137.0	11414.6	11287.0	10664.3	9992.9	9775.3	9572.8	10229.2	12292.3	12202.3	10619.3
45°	12157.3	12288.6	12247.3	11853.4	11107.0	11031.9	10585.6	11335.8	13736.5	13774.0	11872.2
47.5°	13106.3	13177.6	13256.3	12971.3	12506.1	12569.9	11752.1	12521.1	15139.4	15387.0	13267.6
50°	13350.1	13593.9	13777.7	13969.0	14070.3	14501.7	13038.8	13976.5	16752.3	17232.5	14820.5
52.5°	13102.5	13083.8	13642.7	14242.9	15255.7	16159.7	14790.5	15784.6	18177.8	19126.8	16242.2
55°	11977.2	11939.7	12840.0	13635.2	15612.0	17082.4	17292.5	18192.8	19899.5	21133.6	18166.5
57.5°	10007.9	9775.3	10758.1	12063.5	14839.3	17183.7	19805.7	21767.5	22547.8	23954.4	21103.6
60°	6725.7	6628.2	7569.7	9126.4	12048.5	15747.1	21309.9	26242.6	26280.1	27863.1	25661.2
62.5°	4141.2	4160.0	4763.9	5930.5	8436.2	12483.6	20661.0	29817.4	29824.9	31411.6	29412.3
65°	2708.3	2719.5	3207.2	3852.4	5270.3	8466.2	17086.2	30098.7	32289.3	33763.5	31130.3
66°	2411.9	2415.7	2835.8	3361.0	4366.3	6928.3	15090.6	29367.2	32844.5	34074.9	31107.7
67.5°	2033.1	2081.9	2419.4	2824.6	3406.0	4977.7	11973.5	27251.6	32559.4	33639.7	30402.5
70°	1590.5	1616.7	1883.0	2295.7	2554.5	2880.8	7115.8	22213.9	29802.4	31554.1	27836.8
72.5°	1275.4	1297.9	1500.4	1864.3	2074.3	1898.0	3874.9	16118.4	23541.8	25409.8	21895.1
75°	1076.6	1080.3	1177.8	1466.7	1706.7	1425.4	2063.1	10345.5	15105.6	15975.9	13413.9
77.5°	870.3	885.3	952.8	1117.8	1372.9	1121.6	1230.4	5795.4	7584.7	7648.5	6200.5
80°	709.0	716.5	757.7	814.0	1046.6	829.0	832.7	2828.3	3252.2	3177.2	2520.7
82.5°	558.9	566.4	615.2	603.9	769.0	592.7	517.6	1361.6	1496.7	1466.7	1159.1
85°	315.1	315.1	483.9	483.9	487.6	375.1	315.1	641.4	791.5	739.0	543.9
87.5°	101.3	105.0	146.3	153.8	243.8	168.8	153.8	240.1	375.1	330.1	195.1
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°	4306.2	4306.2	4306.2	4306.2	4306.2	4306.2	4306.2	4306.2	4306.2	4306.2	4306.2
2.5°	4396.3	4336.3	4310.0	4223.7	4201.2	4144.9	4118.7	4084.9	4073.7	4024.9	4069.9
5°	4430.0	4411.3	4306.2	4197.5	4114.9	4077.4	4021.2	3946.1	3938.6	3871.1	3863.6
7.5°	4572.6	4508.8	4325.0	4208.7	4043.7	3949.9	3826.1	3788.6	3739.8	3717.3	3766.1
10°	4793.9	4632.6	4358.8	4066.2	3863.6	3751.1	3661.1	3634.8	3638.6	3623.5	3601.0
12.5°	4951.4	4797.6	4302.5	3946.1	3683.6	3574.8	3567.3	3593.5	3634.8	3616.0	3642.3
15°	5176.5	4887.7	4261.2	3747.3	3537.3	3507.3	3503.5	3582.3	3578.5	3578.5	3574.8
17.5°	5386.6	4977.7	4111.2	3574.8	3383.5	3406.0	3432.2	3428.5	3466.0	3481.0	3507.3
20°	5652.9	5082.7	3901.1	3402.2	3267.2	3259.7	3255.9	3259.7	3297.2	3319.7	3301.0
22.5°	5885.5	5105.2	3724.8	3237.2	3128.4	3098.4	3049.6	3098.4	3079.6	3087.1	3109.6
25°	6088.0	5109.0	3473.5	3113.4	2989.6	2922.1	2884.6	2880.8	2847.1	2843.3	2843.3
27.5°	6256.8	4981.4	3252.2	2940.9	2824.6	2760.8	2757.0	2715.8	2629.5	2573.2	2580.7
30°	6388.1	4883.9	3098.4	2790.8	2678.3	2667.0	2633.3	2539.5	2427.0	2355.7	2355.7
32.5°	6620.7	4688.9	2888.3	2637.0	2580.7	2565.7	2487.0	2404.4	2299.4	2231.9	2220.6
35°	6793.2	4508.8	2749.5	2505.7	2479.5	2449.5	2381.9	2291.9	2261.9	2246.9	2258.2
37.5°	6988.3	4306.2	2580.7	2393.2	2419.4	2363.2	2284.4	2243.1	2348.2	2321.9	2333.2
40°	7299.6	4163.7	2415.7	2325.7	2351.9	2288.2	2186.9	2171.9	2303.2	2209.4	2186.9
42.5°	7869.8	4160.0	2314.4	2224.4	2243.1	2194.4	2104.4	2096.9	2149.4	2036.8	2003.1
45°	8578.7	4291.2	2239.4	2149.4	2134.4	2126.9	2096.9	2063.1	2018.1	1871.8	1834.3
47.5°	9426.5	4505.1	2224.4	2036.8	2055.6	2119.4	2081.9	1995.6	1879.3	1785.5	1766.8
50°	10454.3	4947.7	2186.9	1954.3	1988.1	2089.4	2059.3	1939.3	1834.3	1774.3	1763.0
52.5°	11590.9	5506.6	2138.1	1826.8	1901.8	2063.1	2078.1	1965.6	1811.8	1759.3	1751.8
55°	12930.0	6331.8	2081.9	1688.0	1800.5	2036.8	2078.1	1890.5	1781.8	1781.8	1774.3
57.5°	15574.5	7817.3	1965.6	1560.5	1710.5	1988.1	2018.1	1894.3	1785.5	1785.5	1770.5
60°	19453.1	10135.4	1744.3	1462.9	1624.2	1920.6	1973.1	1838.0	1744.3	1766.8	1763.0
62.5°	22487.8	10840.6	1556.7	1369.1	1537.9	1796.8	1913.1	1778.0	1695.5	1778.0	1785.5
65°	23136.7	10127.9	1365.4	1267.9	1417.9	1676.7	1826.8	1691.7	1624.2	1785.5	1793.0
66°	22904.1	9572.8	1297.9	1237.9	1365.4	1616.7	1774.3	1661.7	1586.7	1778.0	1781.8
67.5°	21868.8	8740.0	1222.9	1174.1	1294.1	1530.4	1714.2	1620.5	1526.7	1755.5	1721.7
70°	19618.2	7412.1	1095.3	1061.6	1192.8	1387.9	1575.5	1515.4	1432.9	1616.7	1556.7
72.5°	15109.4	5923.0	960.3	964.0	1076.6	1241.6	1436.7	1395.4	1324.1	1417.9	1380.4
75°	9201.4	3784.8	836.5	844.0	937.8	1102.8	1305.4	1275.4	1189.1	1241.6	1222.9
77.5°	4077.4	1875.5	705.2	720.2	795.2	971.5	1136.6	1087.8	997.8	1009.0	1001.5
80°	1583.0	889.0	573.9	592.7	641.4	776.5	941.5	896.5	817.7	802.7	795.2
82.5°	761.5	495.1	442.6	450.1	468.9	618.9	810.2	754.0	648.9	581.4	581.4
85°	382.6	307.6	311.3	285.1	311.3	420.1	547.7	457.6	378.9	337.6	345.1
87.5°	153.8	153.8	153.8	131.3	138.8	198.8	255.1	172.5	157.5	93.8	93.8
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)