

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: P476580

Luminaire Tested: **IFLD-M-SA4D-735-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476580  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-735-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

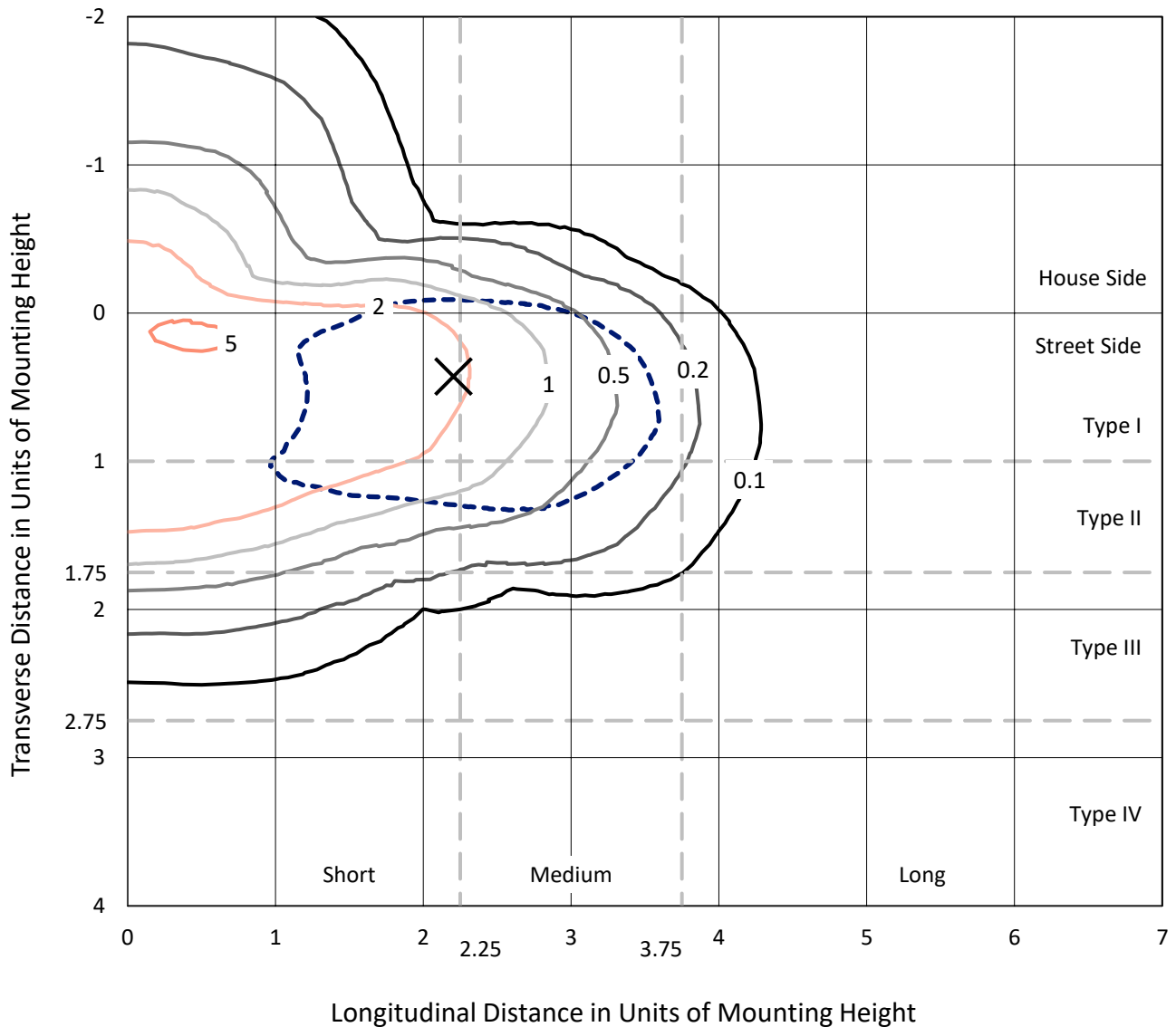
Lumens per Lamp: N/A  
Luminaire Lumens: 30818.1 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

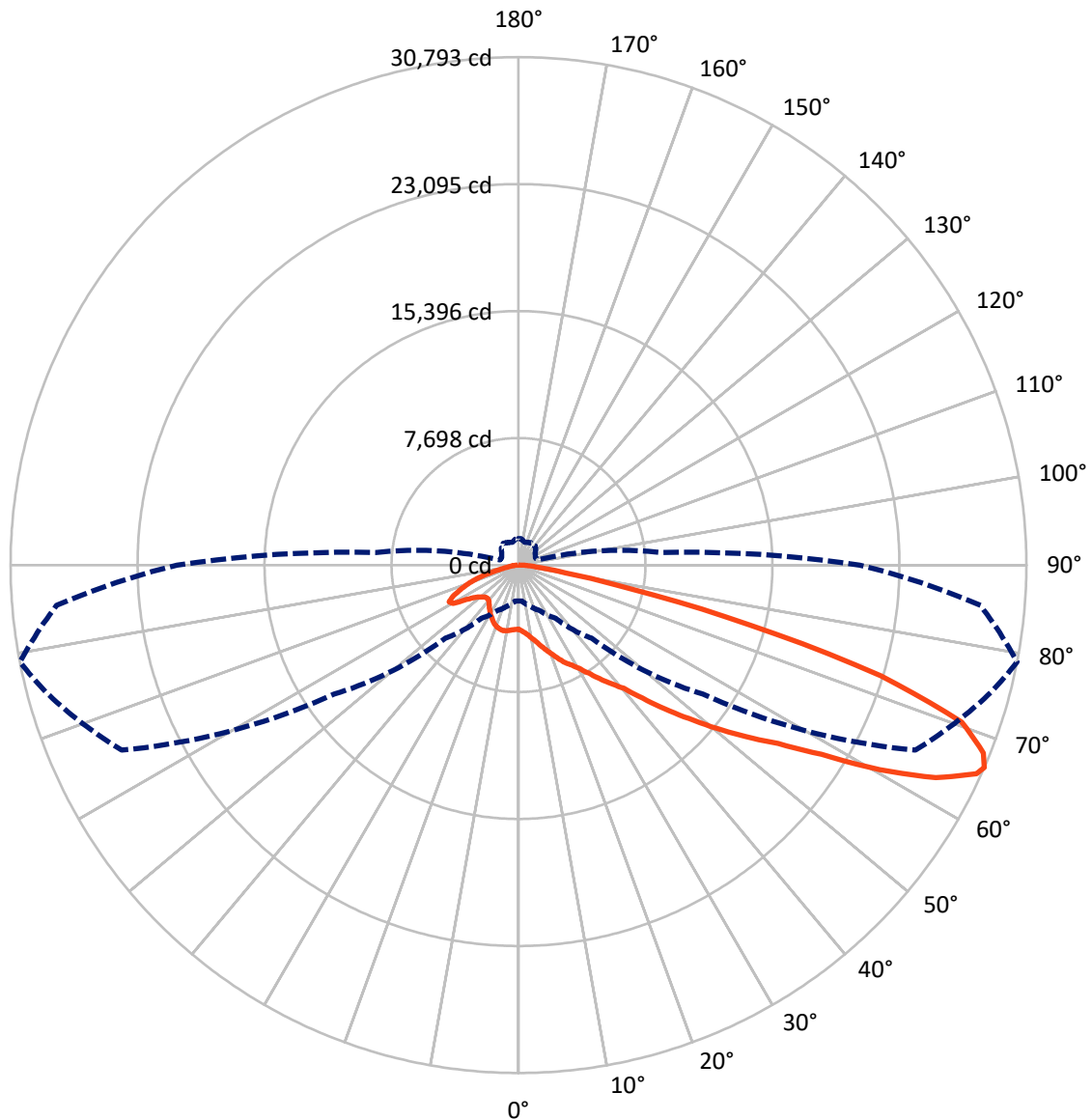
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 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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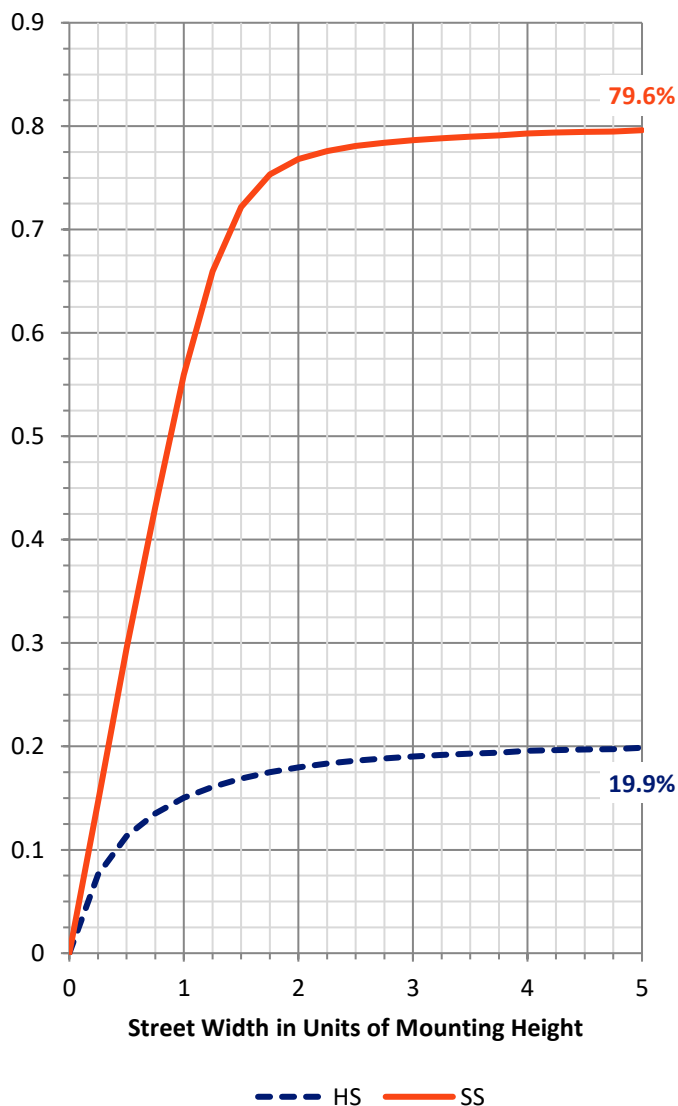
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6223.3	0.0	6223.3
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	24594.8	0.0	24594.8
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	30818.1	0.0	30818.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.6	1.2
10°-20°	1181.6	3.8
20°-30°	2028.2	6.6
30°-40°	3133.2	10.2
40°-50°	5018.7	16.3
50°-60°	7493.2	24.3
60°-70°	7699.3	25.0
70°-80°	3413.0	11.1
80°-90°	468.3	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°	30818.1	100.0
0°-180°	30818.1	100.0

**Coefficient of Utilization**

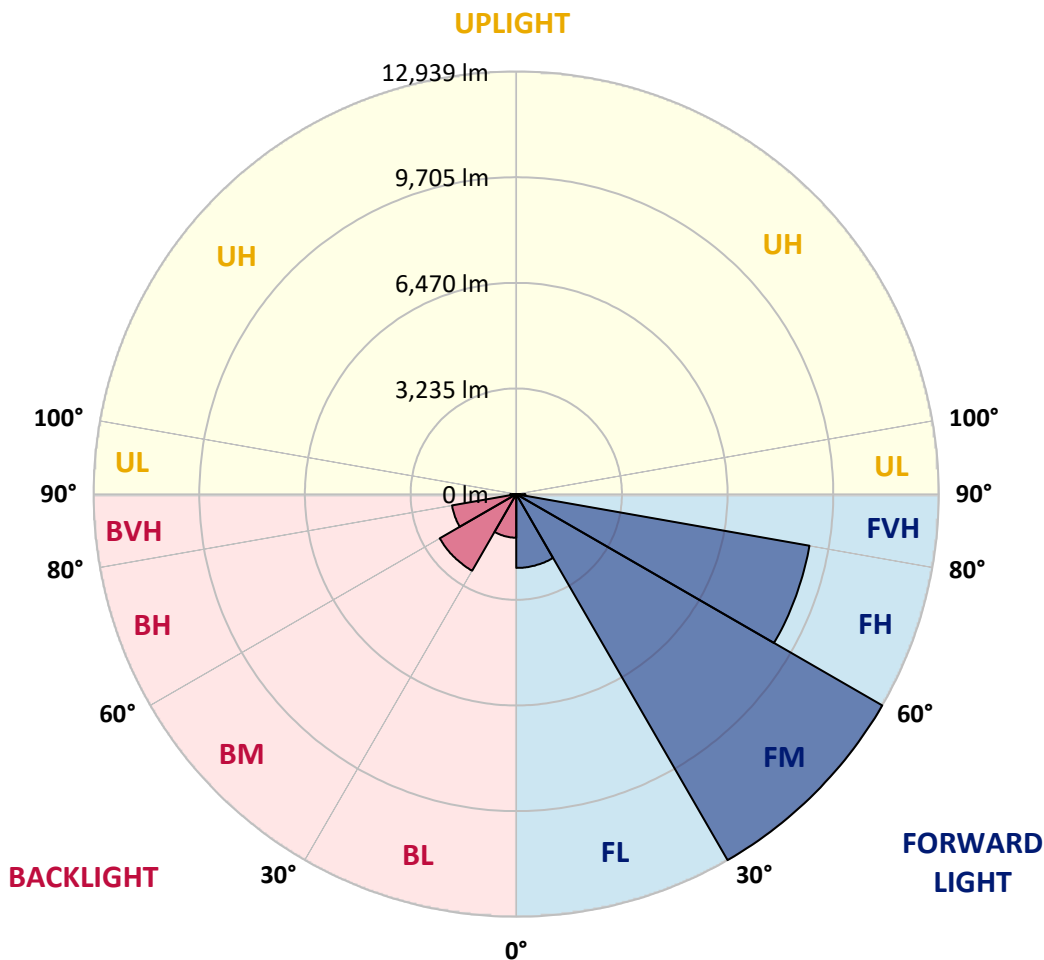


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2259.2	7.3			
FM (30°-60°)	12939.5	42.0			
FH (60°-80°)	9115.3	29.6			G4/12000
FVH (80°-90°)	280.9	0.9			G3/500
BL (0°-30°)	1333.3	4.3	B3/2500		
BM (30°-60°)	2705.6	8.8	B3/5000		
BH (60°-80°)	1996.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	187.4	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°	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5
2.5°	4138.9	4142.3	4142.3	4128.8	4132.1	4142.3	4105.0	4023.7	4023.7	4010.1	3986.4
5°	4393.2	4376.2	4352.5	4355.9	4342.3	4342.3	4301.6	4223.7	4155.9	4128.8	4057.6
7.5°	4427.1	4444.0	4440.6	4481.3	4501.6	4501.6	4522.0	4457.6	4355.9	4291.5	4220.3
10°	4494.9	4450.8	4447.4	4542.3	4572.8	4644.0	4725.4	4691.5	4606.7	4515.2	4420.3
12.5°	4535.5	4562.6	4562.6	4610.1	4681.3	4786.4	4928.7	4993.2	4860.9	4766.0	4620.3
15°	4596.5	4559.3	4667.7	4708.4	4844.0	4918.6	5122.0	5288.1	5199.9	5084.7	4854.2
17.5°	4623.7	4599.9	4661.0	4735.5	4966.0	5077.9	5325.3	5555.9	5481.3	5406.7	5169.4
20°	4762.6	4759.3	4786.4	4847.4	5013.5	5233.8	5542.3	5860.9	5888.1	5752.5	5430.4
22.5°	5101.6	5057.6	5057.6	5033.8	5105.0	5332.1	5749.1	6189.7	6311.8	6152.5	5725.3
25°	5413.5	5474.5	5437.2	5328.7	5301.6	5420.3	5898.2	6538.9	6701.6	6552.5	6125.3
27.5°	5813.5	5833.8	5898.2	5752.5	5566.0	5603.3	6060.9	6735.5	7071.1	6871.1	6352.5
30°	6389.7	6352.5	6338.9	6176.2	5932.1	5881.3	6247.4	7023.6	7555.8	7274.5	6620.2
32.5°	6779.6	6871.1	6867.7	6644.0	6349.1	6237.2	6477.9	7294.8	8074.5	7813.5	7115.2
35°	7552.4	7647.4	7572.8	7244.0	6898.2	6674.5	6810.1	7647.4	8667.7	8464.3	7535.5
37.5°	8538.9	8762.6	8603.3	7996.5	7508.4	7264.3	7271.1	8030.4	9274.4	9108.3	7986.3
40°	9220.2	9521.9	9301.6	8732.1	8213.4	7982.9	7891.4	8484.6	9999.9	9823.6	8691.4
42.5°	10064.3	10315.1	10199.9	9637.2	9030.4	8833.8	8650.7	9243.9	11108.3	11027.0	9596.5
45°	10986.3	11104.9	11067.6	10711.7	10037.1	9969.4	9566.0	10243.9	12413.4	12447.3	10728.7
47.5°	11843.9	11908.3	11979.5	11721.9	11301.5	11359.2	10620.2	11315.1	13681.2	13904.9	11989.7
50°	12064.2	12284.6	12450.7	12623.6	12715.1	13104.9	11782.9	12630.3	15138.8	15572.7	13393.0
52.5°	11840.5	11823.6	12328.6	12871.0	13786.2	14603.2	13365.9	14264.2	16426.9	17284.5	14677.8
55°	10823.6	10789.7	11603.2	12321.9	14108.3	15437.1	15626.9	16440.4	17982.8	19098.0	16416.7
57.5°	9043.9	8833.8	9721.9	10901.5	13410.0	15528.6	17898.1	19670.9	20376.0	21647.2	19070.9
60°	6077.9	5989.7	6840.6	8247.3	10888.0	14230.3	19257.4	23714.9	23748.8	25179.3	23189.5
62.5°	3742.3	3759.3	4305.0	5359.2	7623.6	11281.2	18670.9	26945.4	26952.2	28386.0	26579.3
65°	2447.4	2457.6	2898.3	3481.3	4762.6	7650.7	15440.5	27199.6	29179.3	30511.4	28131.8
66°	2179.6	2183.0	2562.7	3037.2	3945.7	6260.9	13637.1	26538.6	29680.9	30792.8	28111.5
67.5°	1837.3	1881.3	2186.4	2552.5	3077.9	4498.2	10820.2	24626.8	29423.3	30399.6	27474.2
70°	1437.3	1461.0	1701.7	2074.5	2308.4	2603.4	6430.4	20074.3	26931.8	28514.9	25155.6
72.5°	1152.5	1172.9	1355.9	1684.7	1874.6	1715.2	3501.6	14565.9	21274.3	22962.4	19786.2
75°	972.9	976.3	1064.4	1325.4	1542.4	1288.1	1864.4	9349.0	13650.7	14437.1	12121.9
77.5°	786.4	800.0	861.0	1010.2	1240.7	1013.5	1111.8	5237.2	6854.1	6911.8	5603.3
80°	640.7	647.4	684.7	735.6	945.7	749.1	752.5	2555.9	2938.9	2871.1	2277.9
82.5°	505.1	511.9	555.9	545.8	694.9	535.6	467.8	1230.5	1352.5	1325.4	1047.4
85°	284.7	284.7	437.3	437.3	440.7	339.0	284.7	579.7	715.2	667.8	491.5
87.5°	91.5	94.9	132.2	139.0	220.3	152.5	139.0	216.9	339.0	298.3	176.3
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°	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5	3891.5
2.5°	3972.8	3918.6	3894.9	3816.9	3796.6	3745.7	3722.0	3691.5	3681.3	3637.2	3677.9
5°	4003.3	3986.4	3891.5	3793.2	3718.6	3684.7	3633.8	3566.1	3559.3	3498.3	3491.5
7.5°	4132.1	4074.5	3908.4	3803.3	3654.2	3569.4	3457.6	3423.7	3379.6	3359.3	3403.3
10°	4332.1	4186.4	3938.9	3674.5	3491.5	3389.8	3308.4	3284.7	3288.1	3274.5	3254.2
12.5°	4474.5	4335.5	3888.1	3566.1	3328.8	3230.5	3223.7	3247.4	3284.7	3267.8	3291.5
15°	4677.9	4416.9	3850.8	3386.4	3196.6	3169.4	3166.1	3237.2	3233.9	3233.9	3230.5
17.5°	4867.7	4498.2	3715.2	3230.5	3057.6	3077.9	3101.7	3098.3	3132.2	3145.7	3169.4
20°	5108.4	4593.2	3525.4	3074.5	2952.5	2945.7	2942.3	2945.7	2979.6	3000.0	2983.0
22.5°	5318.6	4613.5	3366.1	2925.4	2827.1	2800.0	2755.9	2800.0	2783.0	2789.8	2810.1
25°	5501.6	4616.9	3138.9	2813.5	2701.7	2640.6	2606.7	2603.4	2572.8	2569.5	2569.5
27.5°	5654.2	4501.6	2938.9	2657.6	2552.5	2494.9	2491.5	2454.2	2376.2	2325.4	2332.2
30°	5772.8	4413.5	2800.0	2522.0	2420.3	2410.1	2379.6	2294.9	2193.2	2128.8	2128.8
32.5°	5983.0	4237.2	2610.1	2383.0	2332.2	2318.6	2247.4	2172.9	2077.9	2016.9	2006.8
35°	6138.9	4074.5	2484.7	2264.4	2240.6	2213.5	2152.5	2071.2	2044.0	2030.5	2040.6
37.5°	6315.2	3891.5	2332.2	2162.7	2186.4	2135.6	2064.4	2027.1	2122.0	2098.3	2108.4
40°	6596.5	3762.7	2183.0	2101.7	2125.4	2067.8	1976.2	1962.7	2081.3	1996.6	1976.2
42.5°	7111.8	3759.3	2091.5	2010.1	2027.1	1983.0	1901.7	1894.9	1942.3	1840.7	1810.1
45°	7752.4	3877.9	2023.7	1942.3	1928.8	1922.0	1894.9	1864.4	1823.7	1691.5	1657.6
47.5°	8518.5	4071.1	2010.1	1840.7	1857.6	1915.2	1881.3	1803.4	1698.3	1613.5	1596.6
50°	9447.3	4471.1	1976.2	1766.1	1796.6	1888.1	1861.0	1752.5	1657.6	1603.4	1593.2
52.5°	10474.4	4976.2	1932.2	1650.8	1718.6	1864.4	1877.9	1776.2	1637.3	1589.8	1583.0
55°	11684.6	5722.0	1881.3	1525.4	1627.1	1840.7	1877.9	1708.5	1610.1	1610.1	1603.4
57.5°	14074.4	7064.3	1776.2	1410.1	1545.7	1796.6	1823.7	1711.8	1613.5	1613.5	1600.0
60°	17579.4	9159.2	1576.2	1322.0	1467.8	1735.6	1783.0	1661.0	1576.2	1596.6	1593.2
62.5°	20321.8	9796.5	1406.8	1237.3	1389.8	1623.7	1728.8	1606.8	1532.2	1606.8	1613.5
65°	20908.2	9152.4	1233.9	1145.7	1281.3	1515.2	1650.8	1528.8	1467.8	1613.5	1620.3
66°	20698.0	8650.7	1172.9	1118.6	1233.9	1461.0	1603.4	1501.7	1433.9	1606.8	1610.1
67.5°	19762.4	7898.2	1105.1	1061.0	1169.5	1383.0	1549.1	1464.4	1379.6	1586.4	1555.9
70°	17728.6	6698.2	989.8	959.3	1078.0	1254.2	1423.7	1369.5	1294.9	1461.0	1406.8
72.5°	13654.0	5352.5	867.8	871.2	972.9	1122.0	1298.3	1261.0	1196.6	1281.3	1247.4
75°	8315.1	3420.3	755.9	762.7	847.4	996.6	1179.6	1152.5	1074.6	1122.0	1105.1
77.5°	3684.7	1694.9	637.3	650.8	718.6	878.0	1027.1	983.0	901.7	911.9	905.1
80°	1430.5	803.4	518.6	535.6	579.7	701.7	850.8	810.2	739.0	725.4	718.6
82.5°	688.1	447.5	400.0	406.8	423.7	559.3	732.2	681.3	586.4	525.4	525.4
85°	345.8	278.0	281.4	257.6	281.4	379.7	494.9	413.6	342.4	305.1	311.9
87.5°	139.0	139.0	139.0	118.6	125.4	179.7	230.5	155.9	142.4	84.7	84.7
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)