

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: P480134

Luminaire Tested: **IFLD-L-SA7D-740-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480134  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-740-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

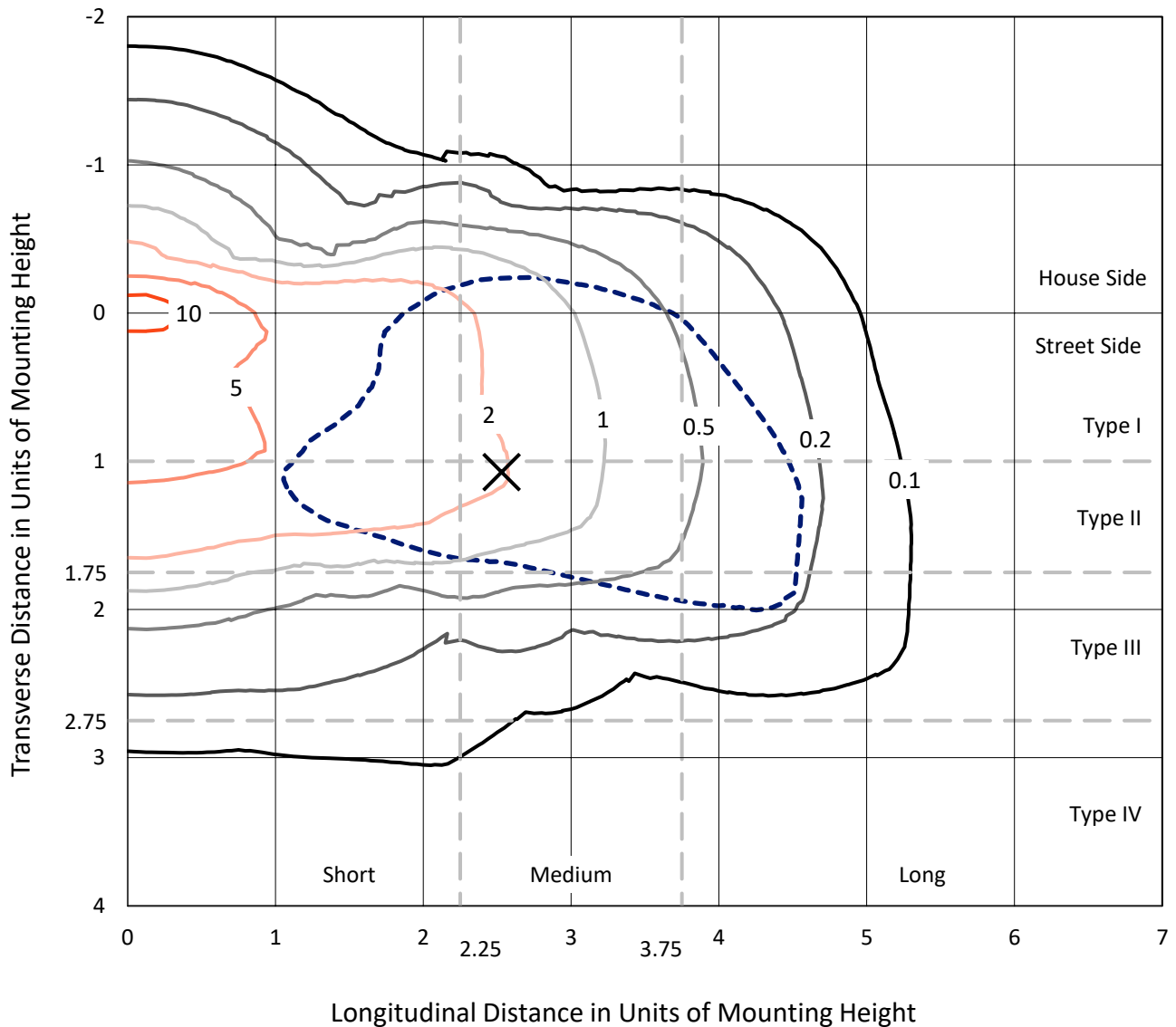
Lumens per Lamp: N/A  
Luminaire Lumens: 48635.5 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6  
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

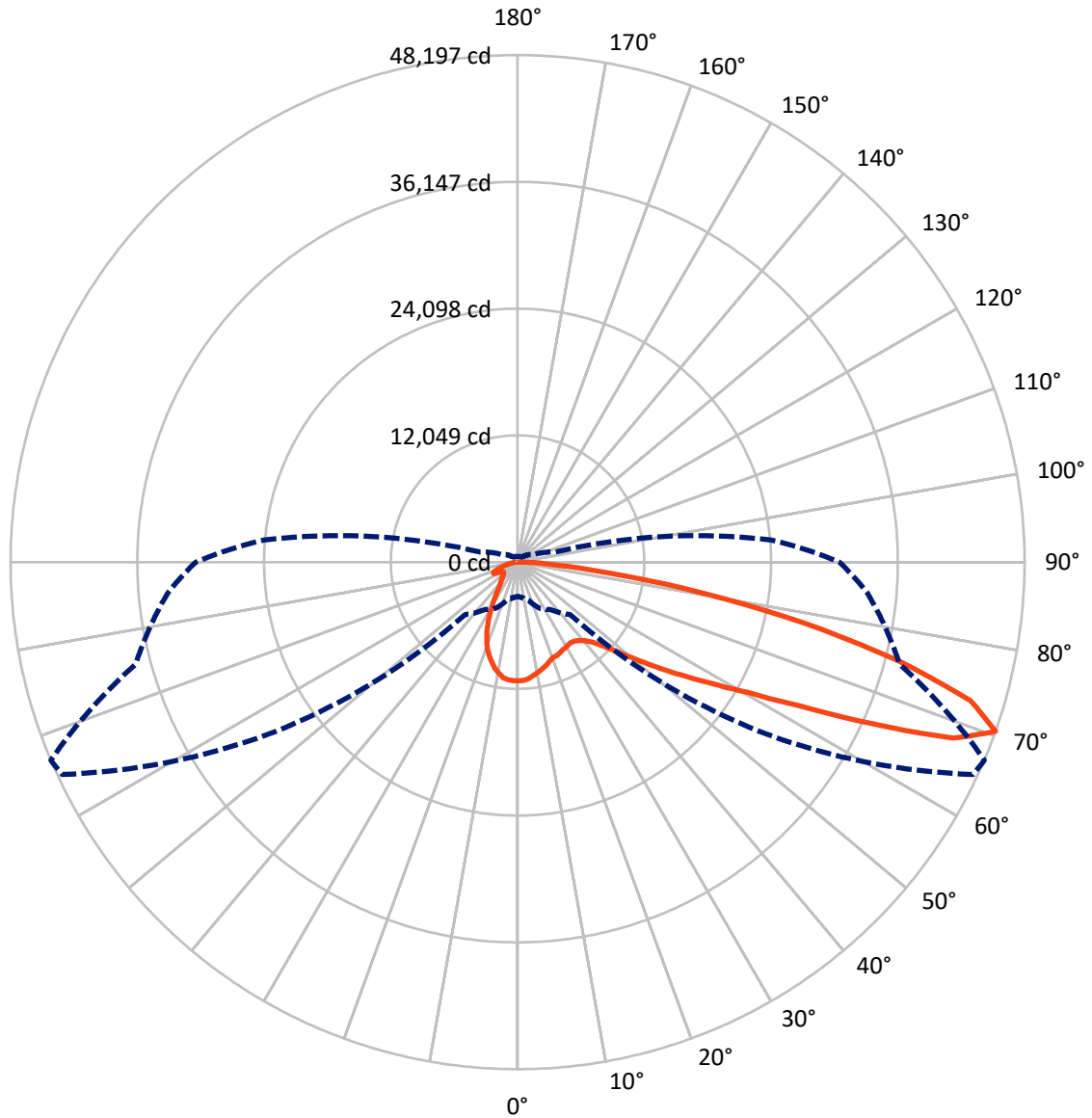
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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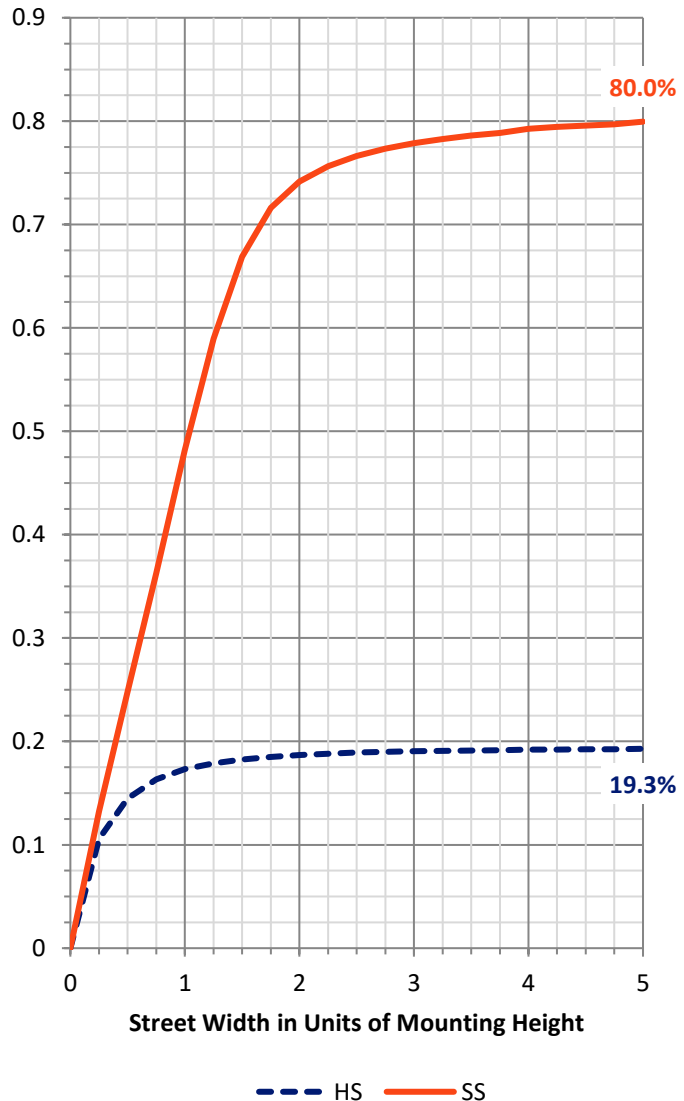
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9472.2	0.0	9472.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	39163.3	0.0	39163.3
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	48635.5	0.0	48635.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	982.4	2.0
10°-20°	2352.7	4.8
20°-30°	3177.2	6.5
30°-40°	4251.4	8.7
40°-50°	6251.6	12.9
50°-60°	9744.6	20.0
60°-70°	12003.7	24.7
70°-80°	8481.7	17.4
80°-90°	1390.2	2.9
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°	48635.5	100.0
0°-180°	48635.5	100.0

**Coefficient of Utilization**

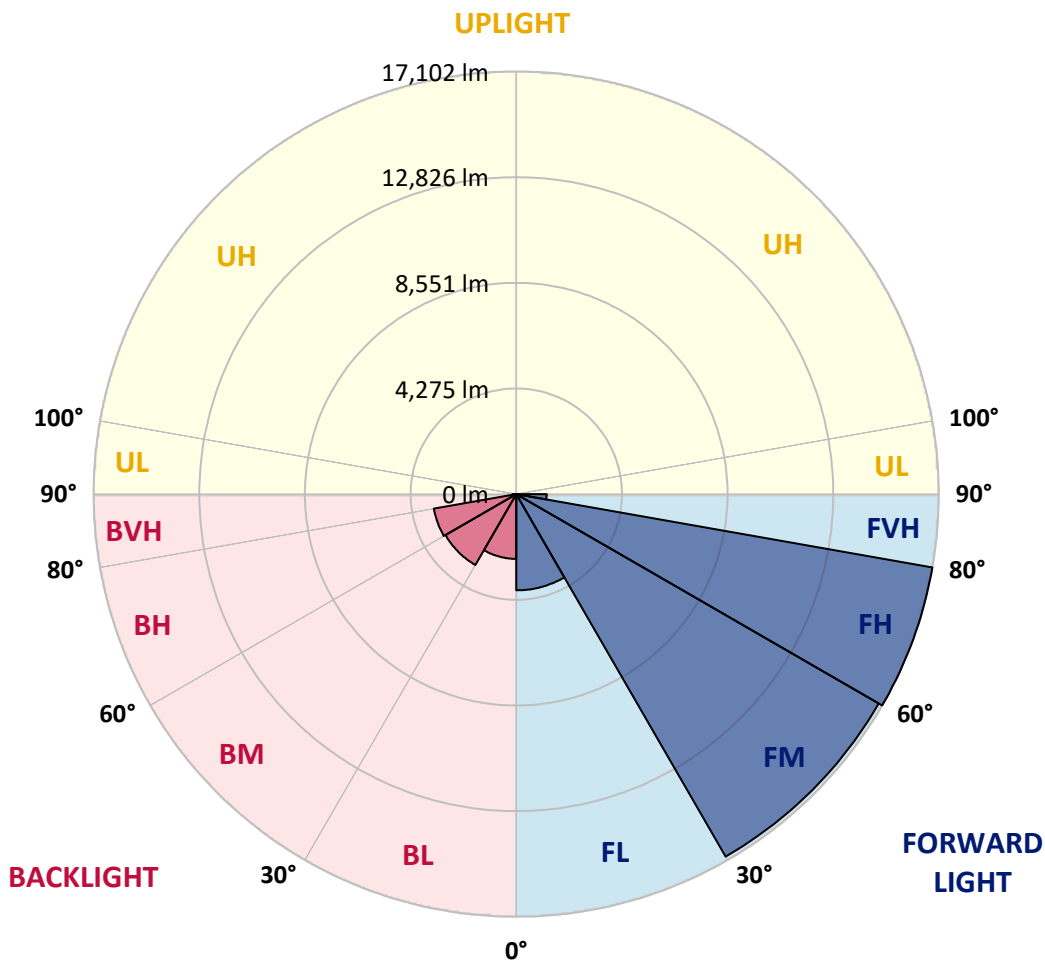


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3892.9	8.0			
FM (30°-60°)	16938.7	34.8			
FH (60°-80°)	17101.9	35.2			G5
FVH (80°-90°)	1229.8	2.5			G5
BL (0°-30°)	2619.4	5.4	B4/5000		
BM (30°-60°)	3308.9	6.8	B3/5000		
BH (60°-80°)	3383.6	7.0	B4/5000		G4/5000
BVH (80°-90°)	160.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	11259.0	11259.0	11259.0	11259.0	11259.0	11259.0	11259.0	11259.0	11259.0	11259.0	11259.0
2.5°	10483.6	10602.1	10645.1	10709.8	10876.7	11000.5	11075.9	11162.1	11264.4	11350.5	11404.4
5°	9751.3	9815.9	9918.2	9988.2	10198.2	10532.1	10758.2	11124.4	11113.6	11248.2	11452.8
7.5°	9040.6	9105.2	9153.6	9293.6	9595.2	9896.7	10311.3	10903.6	10860.5	11172.8	11490.5
10°	8599.0	8550.6	8566.7	8803.6	9040.6	9379.8	9902.1	10505.1	10661.3	11145.9	11598.2
12.5°	8184.4	8130.6	8259.8	8410.6	8701.3	9008.3	9632.9	10176.7	10413.6	11049.0	11646.7
15°	7926.0	7888.3	8049.8	8114.4	8459.0	8825.2	9266.7	9929.0	10187.5	10930.5	11571.3
17.5°	7780.6	7812.9	7872.1	8012.1	8232.9	8545.2	9029.8	9762.1	9875.2	10785.1	11555.1
20°	7807.5	7845.2	7850.6	7909.8	8060.6	8302.9	8798.3	9584.4	9659.8	10758.2	11598.2
22.5°	8022.9	7969.1	7990.6	7952.9	7996.0	8184.4	8620.6	9347.5	9638.2	10532.1	11506.7
25°	8346.0	8270.6	8259.8	8130.6	8049.8	8103.7	8588.3	9288.3	9476.7	10462.1	11501.3
27.5°	8916.7	8803.6	8803.6	8609.8	8281.4	8195.2	8496.7	9191.3	9358.3	10397.5	11377.4
30°	9465.9	9465.9	9471.3	9196.7	8830.6	8405.2	8534.4	9153.6	9261.3	10203.6	11210.5
32.5°	10133.6	10117.5	10090.5	9955.9	9390.6	8755.2	8717.5	9105.2	9159.0	10139.0	11162.1
35°	10785.1	10742.1	10952.1	10833.6	10257.5	9439.0	8906.0	9126.7	9245.2	10042.1	11011.3
37.5°	11275.1	11302.1	11738.2	11813.6	11318.2	10214.4	9439.0	9342.1	9455.2	10182.1	11011.3
40°	11910.5	12018.2	12427.4	12680.5	12379.0	11237.4	10284.4	9702.9	9783.6	10494.4	11248.2
42.5°	12745.1	12836.6	13358.9	13687.4	13601.2	12540.5	11119.0	10456.7	10392.1	11016.7	11603.6
45°	13848.9	13865.1	14392.8	14845.1	15022.7	13902.8	12443.6	11409.7	11355.9	11915.9	12255.1
47.5°	15162.7	15146.6	15475.0	15959.6	16438.9	15528.9	13967.4	12858.2	12664.3	13202.8	13337.4
50°	16433.5	16363.5	16438.9	17058.1	17978.8	17564.2	15819.6	14629.7	14435.8	14732.0	14963.5
52.5°	17133.5	17219.6	17015.0	17833.4	19615.7	19971.1	18275.0	16745.8	16578.9	16724.2	17128.1
55°	16643.5	16821.2	16686.5	17461.9	20331.8	22905.6	21451.8	19195.7	18980.3	18926.5	19588.8
57.5°	14559.7	14882.7	14909.7	16137.3	20084.2	25177.9	25921.0	22087.2	21764.1	21214.9	21898.7
60°	11178.2	11501.3	11749.0	13202.8	17962.7	26534.8	31100.8	26200.9	25134.8	23713.3	24122.5
62.5°	7834.4	8055.2	8302.9	9196.7	13848.9	25737.9	35580.7	31994.7	30029.3	26346.3	26857.9
65°	5707.6	5879.9	6132.9	6660.6	8507.5	21295.7	37659.2	38876.0	37013.0	29695.5	29630.9
67.5°	4296.8	4404.5	4738.4	5583.7	5896.0	13154.3	35505.4	46145.1	44637.5	33416.2	31860.1
70°	3252.2	3343.8	3656.1	4813.7	5508.3	7053.7	28010.1	47765.8	48196.6	37589.2	33356.9
72.5°	2239.9	2342.3	2692.2	4011.4	5244.5	5594.5	17580.4	43393.6	45025.1	39306.8	31752.4
75°	1373.0	1443.0	1647.7	3042.2	5206.8	5470.6	9675.9	35559.2	37287.6	36318.4	27778.6
77.5°	969.2	963.8	1001.5	1782.3	4512.2	5503.0	5966.0	26055.6	27735.5	26766.3	18851.1
80°	705.4	710.8	748.4	1066.1	3063.8	5594.5	4700.7	17451.1	17951.9	13956.6	7436.0
82.5°	425.4	446.9	538.4	721.5	1841.5	5050.7	4345.3	9697.5	9072.9	4479.9	2046.1
85°	226.1	226.1	317.7	457.7	980.0	3769.1	4183.8	4614.5	3866.1	1389.2	759.2
87.5°	53.8	53.8	91.5	183.1	393.1	1803.8	2853.8	1836.1	1470.0	468.5	312.3
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°	11259.0	11259.0	11259.0	11259.0	11259.0	11259.0	11259.0	11259.0	11259.0	11259.0	11259.0
2.5°	11382.8	11318.2	11399.0	11237.4	11108.2	11113.6	10914.4	10903.6	10876.7	10736.7	10785.1
5°	11512.0	11458.2	11366.7	11189.0	10903.6	10618.2	10445.9	10225.2	10133.6	10085.2	10106.7
7.5°	11635.9	11539.0	11275.1	11027.4	10585.9	10047.5	9735.2	9439.0	9062.1	9019.0	8943.6
10°	11668.2	11463.6	11124.4	10596.7	10009.8	9412.1	8701.3	8152.1	7861.4	7635.2	7549.1
12.5°	11619.7	11533.6	10882.1	10203.6	9315.2	8378.3	7549.1	6773.7	6235.2	5955.3	5879.9
15°	11614.4	11463.6	10612.8	9605.9	8469.8	7247.5	6068.3	5136.8	4571.4	4339.9	4339.9
17.5°	11619.7	11259.0	10295.2	9002.9	7473.7	5820.6	4523.0	3758.4	3446.1	3413.8	3440.7
20°	11512.0	11108.2	9961.3	8292.1	6224.5	4372.2	3284.5	2972.2	2972.2	3015.3	3031.5
22.5°	11415.1	10882.1	9433.6	7414.4	4953.7	3166.1	2670.7	2579.2	2681.5	2756.9	2789.2
25°	11280.5	10693.6	8895.2	6504.5	3769.1	2552.3	2320.7	2342.3	2439.2	2573.8	2563.0
27.5°	11086.7	10365.2	8254.4	5449.1	2805.3	2202.3	2143.0	2153.8	2256.1	2315.3	2304.6
30°	10865.9	10031.3	7662.1	4399.1	2223.8	2019.2	2013.8	2040.7	2056.9	2089.2	2083.8
32.5°	10585.9	9589.8	7032.1	3419.2	2003.0	1916.9	1895.3	1879.2	1895.3	1890.0	1873.8
35°	10386.7	9352.9	6391.4	2606.1	1879.2	1825.3	1809.2	1782.3	1760.7	1728.4	1723.0
37.5°	10332.8	9115.9	5718.3	2126.9	1782.3	1755.3	1701.5	1653.0	1626.1	1610.0	1599.2
40°	10300.5	8959.8	5061.4	1868.4	1701.5	1674.6	1610.0	1545.3	1518.4	1502.3	1507.7
42.5°	10413.6	8873.6	4393.7	1739.2	1631.5	1583.0	1513.0	1437.7	1432.3	1421.5	1437.7
45°	10812.1	8981.3	3774.5	1647.7	1561.5	1480.7	1389.2	1351.5	1346.1	1335.4	1346.1
47.5°	11716.7	9250.6	3246.8	1588.4	1486.1	1416.1	1319.2	1265.4	1260.0	1254.6	1254.6
50°	12965.9	10079.8	2805.3	1518.4	1437.7	1340.7	1249.2	1190.0	1179.2	1157.7	1157.7
52.5°	14925.8	11474.4	2541.5	1480.7	1351.5	1270.7	1173.8	1109.2	1082.3	1060.7	1060.7
55°	17133.5	13202.8	2493.0	1416.1	1260.0	1184.6	1098.4	1033.8	1006.9	980.0	969.2
57.5°	19648.0	15491.2	2837.6	1373.0	1195.4	1098.4	1001.5	942.3	920.7	893.8	883.1
60°	21990.3	17774.2	3909.1	1308.4	1136.1	1017.7	920.7	861.5	834.6	807.7	807.7
62.5°	24698.7	20601.1	5723.7	1308.4	1082.3	931.5	834.6	791.5	775.4	748.4	743.1
65°	27902.4	23524.9	7048.3	1389.2	1066.1	856.1	753.8	710.8	694.6	678.4	673.1
67.5°	30341.6	25204.8	6062.9	1604.6	1136.1	791.5	673.1	646.1	635.4	619.2	608.4
70°	30600.1	24181.8	3656.1	1733.8	1206.1	726.9	603.1	576.1	576.1	560.0	549.2
72.5°	28279.4	21457.2	2460.7	1545.3	1093.1	651.5	533.1	511.5	500.8	490.0	484.6
75°	23664.9	18199.6	1943.8	1233.0	840.0	538.4	463.1	441.5	425.4	420.0	409.2
77.5°	15895.0	11829.7	1437.7	963.8	619.2	436.1	387.7	366.1	350.0	344.6	328.5
80°	6106.0	4506.8	926.1	700.0	436.1	344.6	306.9	285.4	274.6	258.5	247.7
82.5°	1798.4	1459.2	516.9	430.8	280.0	236.9	220.8	204.6	188.5	172.3	166.9
85°	743.1	667.7	317.7	226.1	172.3	140.0	129.2	113.1	96.9	86.2	75.4
87.5°	344.6	285.4	145.4	86.2	59.2	32.3	16.2	5.4	0.0	0.0	0.0
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)