

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: P480132

Luminaire Tested: **IFLD-L-SA7B-740-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480132  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-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**

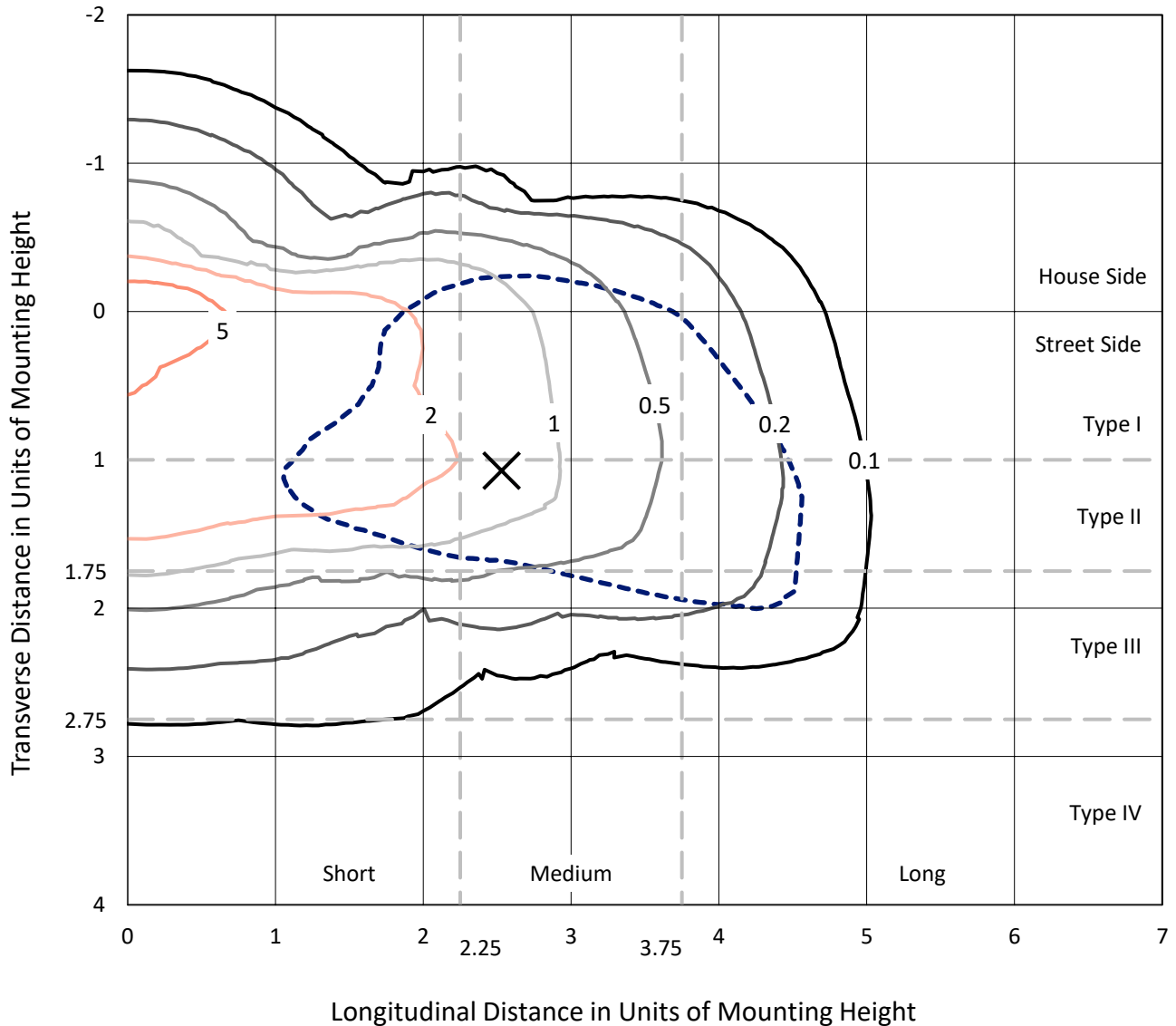
Lumens per Lamp: N/A  
Luminaire Lumens: 35507.3 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 281  
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

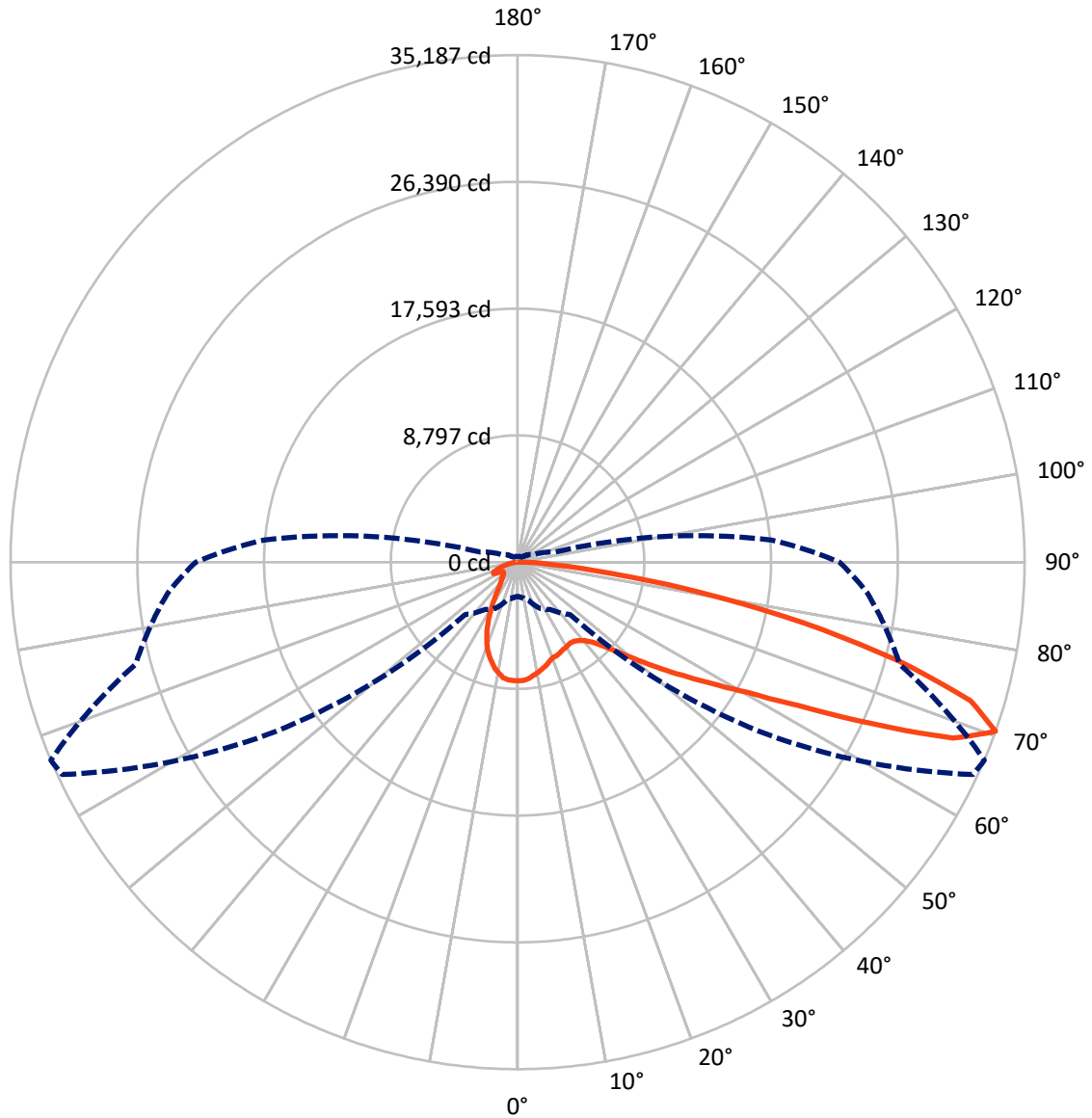
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 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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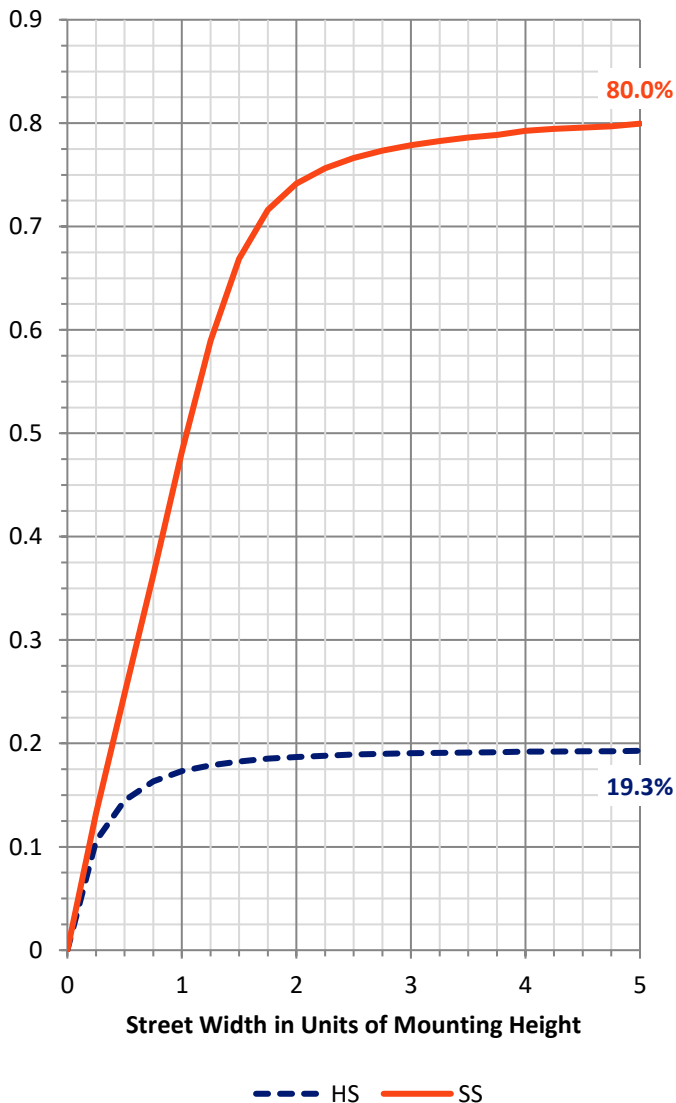
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6915.4	0.0	6915.4
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	28591.9	0.0	28591.9
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	35507.3	0.0	35507.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	717.2	2.0
10°-20°	1717.7	4.8
20°-30°	2319.6	6.5
30°-40°	3103.8	8.7
40°-50°	4564.1	12.9
50°-60°	7114.2	20.0
60°-70°	8763.6	24.7
70°-80°	6192.3	17.4
80°-90°	1014.9	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°	35507.3	100.0
0°-180°	35507.3	100.0



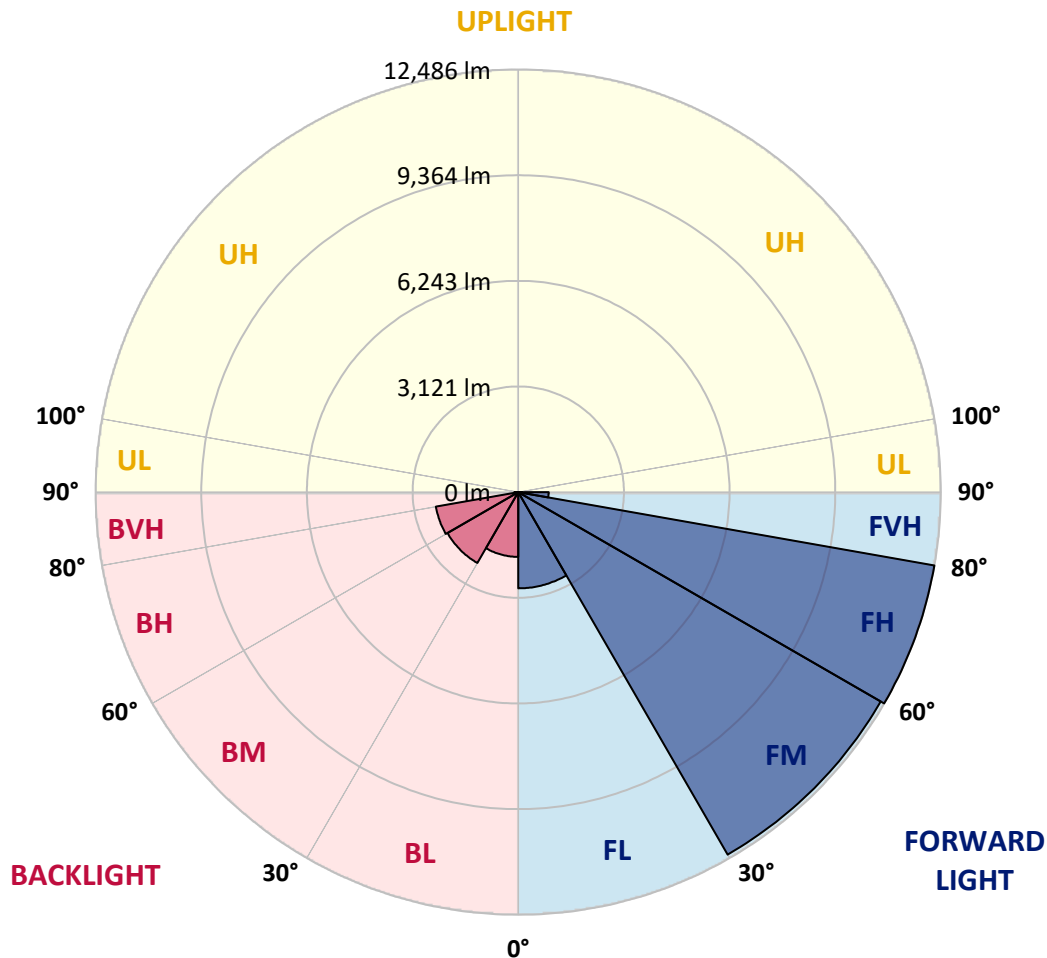
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2842.1	8.0			
FM (30°-60°)	12366.4	34.8			
FH (60°-80°)	12485.5	35.2			G5
FVH (80°-90°)	897.9	2.5			G5
BL (0°-30°)	1912.3	5.4	B3/2500		
BM (30°-60°)	2415.7	6.8	B2/2500		
BH (60°-80°)	2470.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	117.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8219.8	8219.8	8219.8	8219.8	8219.8	8219.8	8219.8	8219.8	8219.8	8219.8	8219.8
2.5°	7653.8	7740.2	7771.7	7818.9	7940.7	8031.1	8086.2	8149.1	8223.8	8286.7	8326.0
5°	7119.1	7166.3	7241.0	7292.1	7445.4	7689.1	7854.2	8121.6	8113.7	8212.0	8361.3
7.5°	6600.2	6647.4	6682.8	6785.0	7005.1	7225.3	7528.0	7960.4	7928.9	8156.9	8388.9
10°	6277.9	6242.5	6254.3	6427.3	6600.2	6847.9	7229.2	7669.5	7783.5	8137.3	8467.5
12.5°	5975.2	5935.9	6030.2	6140.3	6352.6	6576.6	7032.7	7429.7	7602.7	8066.5	8502.9
15°	5786.5	5759.0	5876.9	5924.1	6175.7	6443.0	6765.3	7248.9	7437.5	7980.0	8447.8
17.5°	5680.4	5704.0	5747.2	5849.4	6010.6	6238.6	6592.4	7127.0	7209.5	7873.9	8436.0
20°	5700.0	5727.5	5731.5	5774.7	5884.8	6061.7	6423.3	6997.3	7052.3	7854.2	8467.5
22.5°	5857.3	5818.0	5833.7	5806.2	5837.6	5975.2	6293.6	6824.3	7036.6	7689.1	8400.7
25°	6093.1	6038.1	6030.2	5935.9	5876.9	5916.2	6270.0	6781.1	6918.7	7638.0	8396.7
27.5°	6509.8	6427.3	6427.3	6285.8	6046.0	5983.1	6203.2	6710.3	6832.2	7590.9	8306.3
30°	6910.8	6910.8	6914.7	6714.2	6446.9	6136.4	6230.7	6682.8	6761.4	7449.3	8184.4
32.5°	7398.2	7386.4	7366.8	7268.5	6855.8	6391.9	6364.4	6647.4	6686.7	7402.2	8149.1
35°	7873.9	7842.4	7995.8	7909.3	7488.7	6891.1	6502.0	6663.1	6749.6	7331.4	8039.0
37.5°	8231.6	8251.3	8569.7	8624.7	8263.1	7457.2	6891.1	6820.4	6902.9	7433.6	8039.0
40°	8695.5	8774.1	9072.9	9257.6	9037.5	8204.1	7508.3	7083.8	7142.7	7661.6	8212.0
42.5°	9304.8	9371.6	9752.9	9992.7	9929.8	9155.4	8117.6	7634.1	7586.9	8042.9	8471.4
45°	10110.7	10122.5	10507.7	10837.9	10967.6	10150.0	9084.7	8329.9	8290.6	8699.4	8947.1
47.5°	11069.8	11058.0	11297.8	11651.6	12001.5	11337.2	10197.1	9387.4	9245.8	9638.9	9737.2
50°	11997.6	11946.5	12001.5	12453.6	13125.8	12823.1	11549.4	10680.7	10539.1	10755.4	10924.4
52.5°	12508.6	12571.5	12422.1	13019.6	14320.8	14580.3	13342.0	12225.6	12103.7	12209.8	12504.7
55°	12150.9	12280.6	12182.3	12748.4	14843.6	16722.7	15661.3	14014.2	13857.0	13817.6	14301.2
57.5°	10629.6	10865.4	10885.1	11781.4	14662.8	18381.6	18924.1	16125.2	15889.3	15488.3	15987.6
60°	8160.9	8396.7	8577.6	9638.9	13114.0	19372.2	22705.8	19128.5	18350.1	17312.4	17611.1
62.5°	5719.7	5880.9	6061.7	6714.2	10110.7	18790.4	25976.4	23358.3	21923.5	19234.6	19608.1
65°	4166.9	4292.7	4477.5	4862.7	6211.1	15547.3	27493.8	28382.2	27022.0	21679.7	21632.6
67.5°	3137.0	3215.6	3459.3	4076.5	4304.5	9603.6	25921.4	33689.1	32588.4	24396.1	23260.0
70°	2374.4	2441.2	2669.2	3514.4	4021.5	5149.7	20449.3	34872.4	35186.8	27442.7	24352.9
72.5°	1635.3	1710.0	1965.5	2928.6	3828.8	4084.4	12834.9	31680.3	32871.5	28696.7	23181.4
75°	1002.4	1053.5	1202.9	2221.0	3801.3	3993.9	7064.1	25960.7	27222.5	26514.9	20280.3
77.5°	707.6	703.7	731.2	1301.2	3294.2	4017.5	4355.6	19022.4	20248.8	19541.3	13762.6
80°	515.0	518.9	546.4	778.3	2236.8	4084.4	3431.8	12740.5	13106.1	10189.3	5428.8
82.5°	310.6	326.3	393.1	526.8	1344.4	3687.3	3172.4	7079.8	6623.8	3270.6	1493.8
85°	165.1	165.1	231.9	334.1	715.5	2751.7	3054.4	3368.9	2822.5	1014.2	554.3
87.5°	39.3	39.3	66.8	133.7	287.0	1316.9	2083.5	1340.5	1073.2	342.0	228.0
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°	8219.8	8219.8	8219.8	8219.8	8219.8	8219.8	8219.8	8219.8	8219.8	8219.8	8219.8
2.5°	8310.2	8263.1	8322.0	8204.1	8109.8	8113.7	7968.2	7960.4	7940.7	7838.5	7873.9
5°	8404.6	8365.3	8298.4	8168.7	7960.4	7752.0	7626.2	7465.1	7398.2	7362.9	7378.6
7.5°	8495.0	8424.2	8231.6	8050.8	7728.4	7335.3	7107.3	6891.1	6616.0	6584.5	6529.5
10°	8518.6	8369.2	8121.6	7736.3	7307.8	6871.5	6352.6	5951.6	5739.3	5574.2	5511.3
12.5°	8483.2	8420.3	7944.7	7449.3	6800.7	6116.7	5511.3	4945.3	4552.2	4347.7	4292.7
15°	8479.3	8369.2	7748.1	7013.0	6183.5	5291.2	4430.3	3750.2	3337.5	3168.4	3168.4
17.5°	8483.2	8219.8	7516.2	6572.7	5456.3	4249.5	3302.1	2743.9	2515.9	2492.3	2511.9
20°	8404.6	8109.8	7272.4	6053.8	4544.3	3192.0	2397.9	2169.9	2169.9	2201.4	2213.2
22.5°	8333.8	7944.7	6887.2	5413.1	3616.6	2311.5	1949.8	1883.0	1957.7	2012.7	2036.3
25°	8235.6	7807.1	6494.1	4748.7	2751.7	1863.3	1694.3	1710.0	1780.8	1879.0	1871.2
27.5°	8094.0	7567.3	6026.3	3978.2	2048.1	1607.8	1564.6	1572.4	1647.1	1690.4	1682.5
30°	7932.9	7323.5	5593.9	3211.7	1623.5	1474.1	1470.2	1489.9	1501.7	1525.2	1521.3
32.5°	7728.4	7001.2	5134.0	2496.2	1462.4	1399.5	1383.7	1371.9	1383.7	1379.8	1368.0
35°	7583.0	6828.2	4666.2	1902.6	1371.9	1332.6	1320.8	1301.2	1285.5	1261.9	1257.9
37.5°	7543.7	6655.3	4174.8	1552.8	1301.2	1281.5	1242.2	1206.8	1187.2	1175.4	1167.5
40°	7520.1	6541.3	3695.2	1364.1	1242.2	1222.6	1175.4	1128.2	1108.6	1096.8	1100.7
42.5°	7602.7	6478.4	3207.7	1269.7	1191.1	1155.7	1104.6	1049.6	1045.7	1037.8	1049.6
45°	7893.6	6557.0	2755.7	1202.9	1140.0	1081.0	1014.2	986.7	982.8	974.9	982.8
47.5°	8554.0	6753.5	2370.4	1159.7	1085.0	1033.9	963.1	923.8	919.9	915.9	915.9
50°	9466.0	7358.9	2048.1	1108.6	1049.6	978.8	912.0	868.8	860.9	845.2	845.2
52.5°	10896.9	8377.1	1855.5	1081.0	986.7	927.7	857.0	809.8	790.1	774.4	774.4
55°	12508.6	9638.9	1820.1	1033.9	919.9	864.8	801.9	754.8	735.1	715.5	707.6
57.5°	14344.4	11309.6	2071.7	1002.4	872.7	801.9	731.2	687.9	672.2	652.6	644.7
60°	16054.4	12976.4	2853.9	955.2	829.5	743.0	672.2	629.0	609.3	589.7	589.7
62.5°	18031.7	15040.2	4178.7	955.2	790.1	680.1	609.3	577.9	566.1	546.4	542.5
65°	20370.7	17174.8	5145.7	1014.2	778.3	625.0	550.3	518.9	507.1	495.3	491.4
67.5°	22151.5	18401.3	4426.4	1171.5	829.5	577.9	491.4	471.7	463.9	452.1	444.2
70°	22340.2	17654.4	2669.2	1265.8	880.6	530.7	440.3	420.6	420.6	408.8	401.0
72.5°	20645.9	15665.2	1796.5	1128.2	798.0	475.7	389.2	373.4	365.6	357.7	353.8
75°	17277.0	13287.0	1419.1	900.2	613.2	393.1	338.1	322.3	310.6	306.6	298.8
77.5°	11604.5	8636.5	1049.6	703.7	452.1	318.4	283.0	267.3	255.5	251.6	239.8
80°	4457.8	3290.3	676.1	511.0	318.4	251.6	224.1	208.3	200.5	188.7	180.8
82.5°	1313.0	1065.3	377.4	314.5	204.4	173.0	161.2	149.4	137.6	125.8	121.9
85°	542.5	487.5	231.9	165.1	125.8	102.2	94.3	82.6	70.8	62.9	55.0
87.5°	251.6	208.3	106.1	62.9	43.2	23.6	11.8	3.9	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)