

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: P480136

Luminaire Tested: **IFLD-L-SA8A-740-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480136  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-740-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

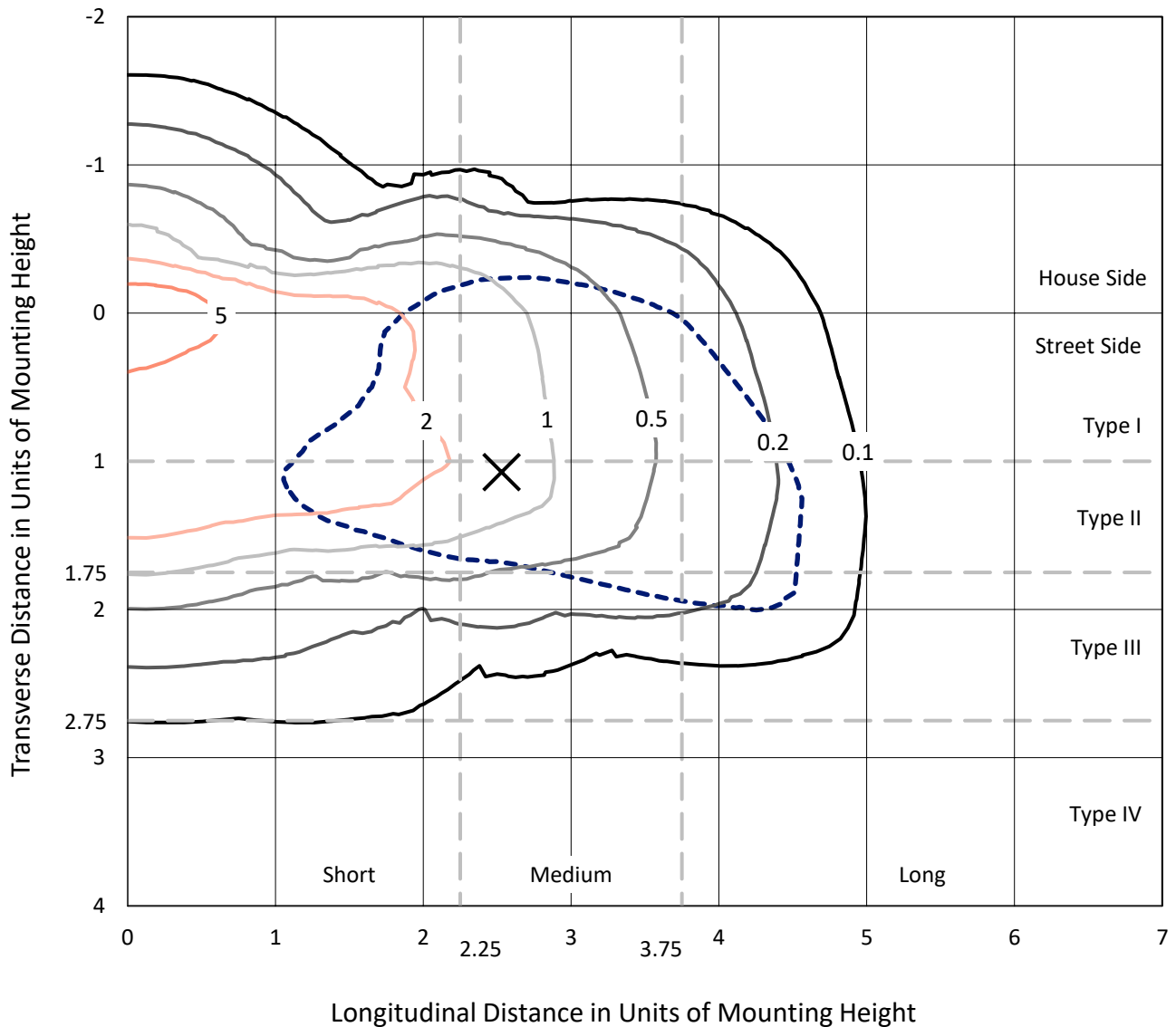
Lumens per Lamp: N/A  
Luminaire Lumens: 34155.5 lumens  
Efficiency: N/A  
Efficacy: 137.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

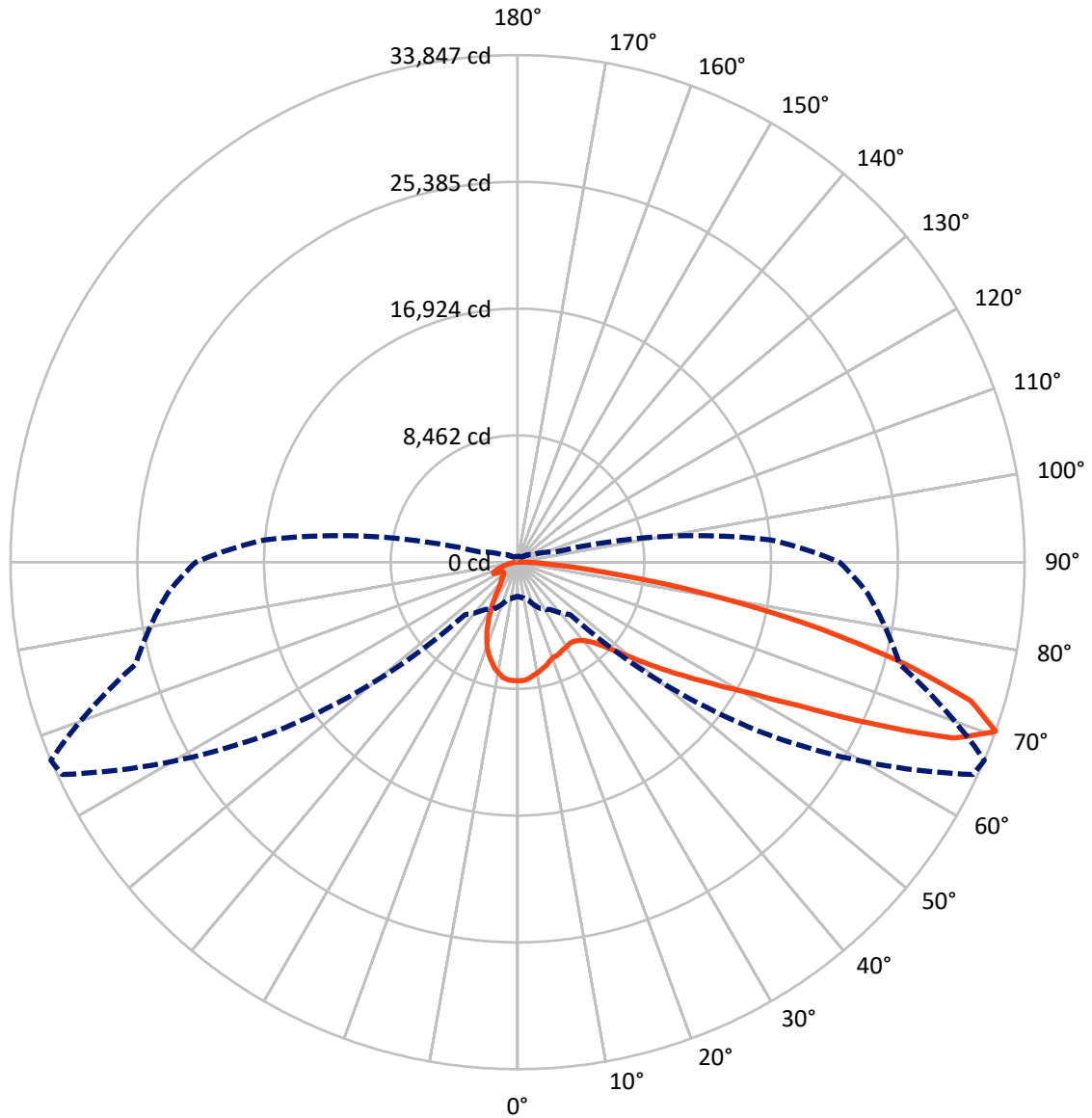
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 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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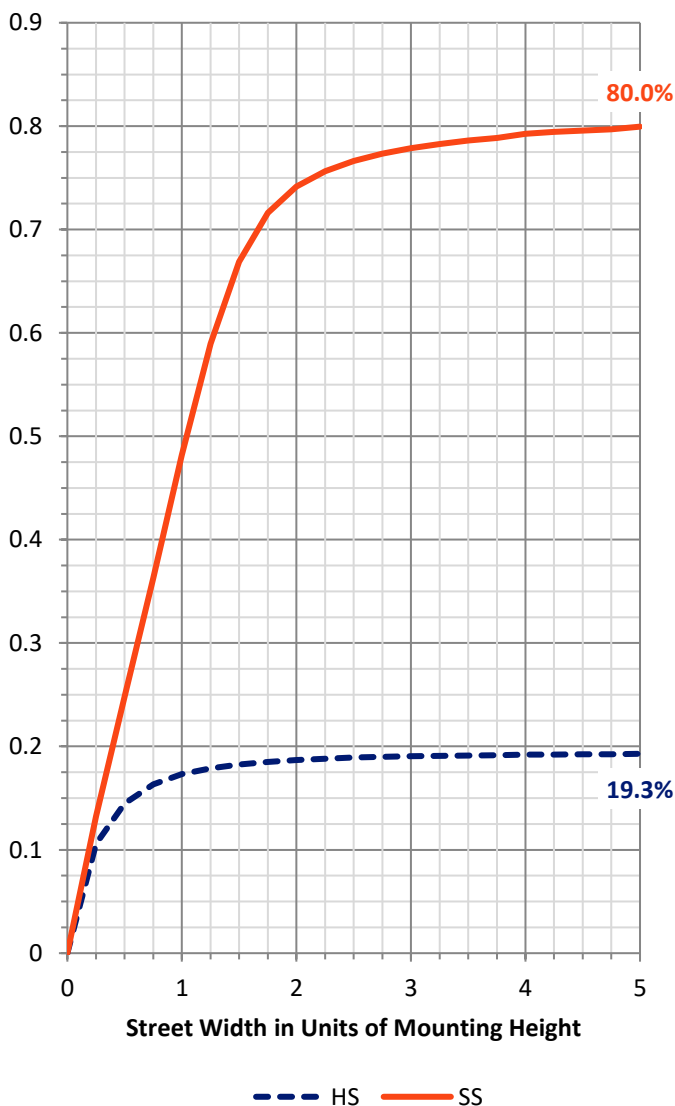
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6652.1	0.0	6652.1
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	27503.4	0.0	27503.4
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	34155.5	0.0	34155.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	689.9	2.0
10°-20°	1652.3	4.8
20°-30°	2231.3	6.5
30°-40°	2985.6	8.7
40°-50°	4390.3	12.9
50°-60°	6843.4	20.0
60°-70°	8429.9	24.7
70°-80°	5956.5	17.4
80°-90°	976.3	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°	34155.5	100.0
0°-180°	34155.5	100.0

**Coefficient of Utilization**

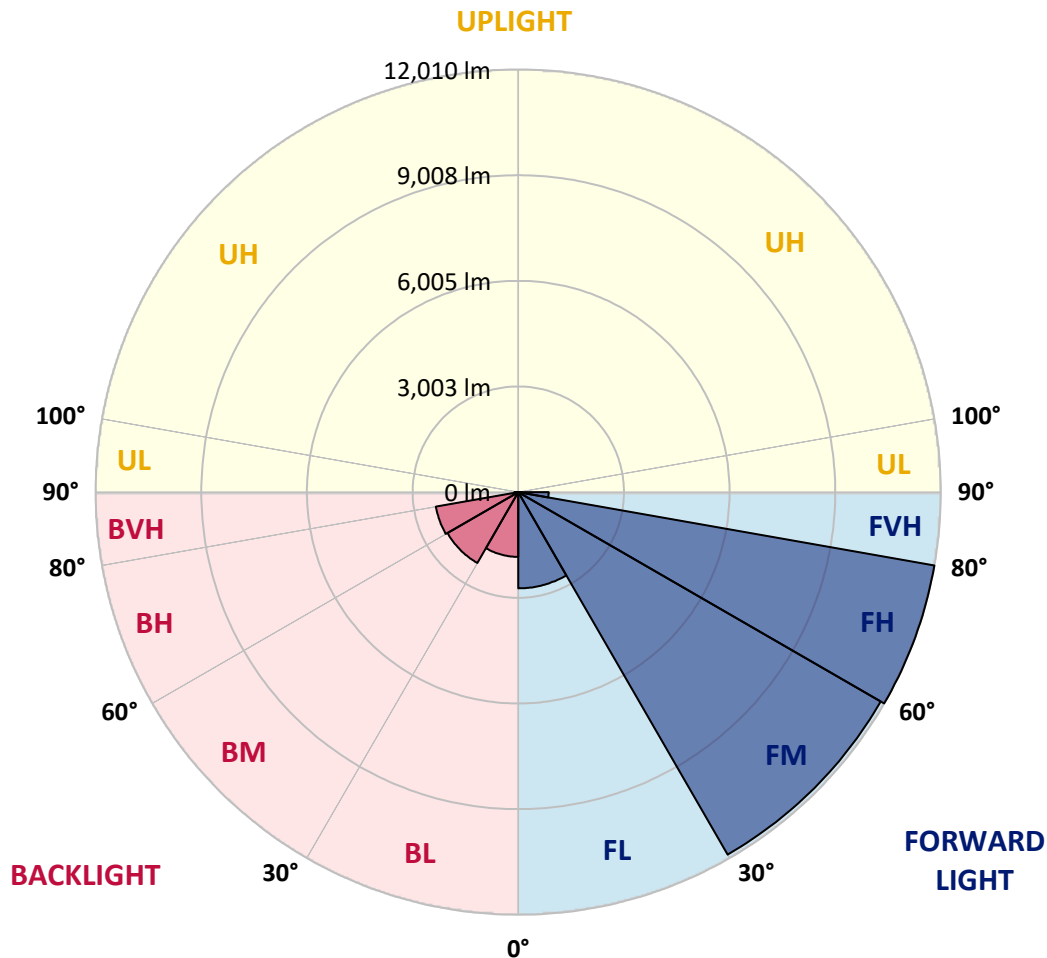


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2733.9	8.0			
FM (30°-60°)	11895.6	34.8			
FH (60°-80°)	12010.2	35.2			G5
FVH (80°-90°)	863.7	2.5			G5
BL (0°-30°)	1839.5	5.4	B3/2500		
BM (30°-60°)	2323.7	6.8	B2/2500		
BH (60°-80°)	2376.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	112.6	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°	7906.9	7906.9	7906.9	7906.9	7906.9	7906.9	7906.9	7906.9	7906.9	7906.9	7906.9
2.5°	7362.4	7445.5	7475.8	7521.2	7638.4	7725.4	7778.3	7838.8	7910.7	7971.2	8009.0
5°	6848.1	6893.5	6965.3	7014.5	7161.9	7396.4	7555.2	7812.3	7804.8	7899.3	8043.0
7.5°	6348.9	6394.3	6428.4	6526.7	6738.4	6950.2	7241.4	7657.3	7627.1	7846.4	8069.5
10°	6038.9	6004.8	6016.2	6182.6	6348.9	6587.2	6954.0	7377.5	7487.1	7827.5	8145.1
12.5°	5747.7	5709.9	5800.6	5906.5	6110.7	6326.3	6764.9	7146.8	7313.2	7759.4	8179.1
15°	5566.2	5539.7	5653.2	5698.5	5940.6	6197.7	6507.8	6972.9	7154.4	7676.2	8126.2
17.5°	5464.1	5486.8	5528.4	5626.7	5781.7	6001.1	6341.4	6855.7	6935.1	7574.1	8114.9
20°	5483.0	5509.5	5513.3	5554.9	5660.7	5830.9	6178.8	6730.9	6783.8	7555.2	8145.1
22.5°	5634.3	5596.5	5611.6	5585.1	5615.4	5747.7	6054.0	6564.5	6768.7	7396.4	8080.8
25°	5861.1	5808.2	5800.6	5709.9	5653.2	5691.0	6031.3	6522.9	6655.2	7347.2	8077.0
27.5°	6262.0	6182.6	6182.6	6046.4	5815.8	5755.3	5967.0	6454.8	6572.0	7301.9	7990.1
30°	6647.7	6647.7	6651.5	6458.6	6201.5	5902.7	5993.5	6428.4	6504.0	7165.7	7872.8
32.5°	7116.6	7105.2	7086.3	6991.8	6594.7	6148.5	6122.1	6394.3	6432.1	7120.4	7838.8
35°	7574.1	7543.9	7691.3	7608.1	7203.5	6628.8	6254.4	6409.4	6492.6	7052.3	7732.9
37.5°	7918.2	7937.1	8243.4	8296.4	7948.5	7173.3	6628.8	6560.7	6640.1	7150.6	7732.9
40°	8364.4	8440.1	8727.4	8905.2	8693.4	7891.8	7222.4	6814.1	6870.8	7369.9	7899.3
42.5°	8950.5	9014.8	9381.6	9612.3	9551.8	8806.8	7808.6	7343.5	7298.1	7736.7	8148.9
45°	9725.7	9737.1	10107.6	10425.3	10550.1	9763.5	8738.8	8012.8	7974.9	8368.2	8606.4
47.5°	10648.4	10637.0	10867.7	11208.0	11544.6	10905.5	9808.9	9030.0	8893.8	9272.0	9366.5
50°	11540.8	11491.6	11544.6	11979.4	12626.0	12334.9	11109.7	10274.0	10137.9	10345.9	10508.5
52.5°	12032.4	12092.9	11949.2	12524.0	13775.6	14025.2	12834.0	11760.1	11642.9	11745.0	12028.6
55°	11688.3	11813.1	11718.5	12263.0	14278.5	16086.0	15065.0	13480.6	13329.4	13291.6	13756.7
57.5°	10224.9	10451.8	10470.7	11332.8	14104.6	17681.8	18203.6	15511.2	15284.4	14898.7	15378.9
60°	7850.2	8077.0	8251.0	9272.0	12614.7	18634.7	21841.3	18400.2	17651.5	16653.2	16940.6
62.5°	5501.9	5657.0	5830.9	6458.6	9725.7	18075.0	24987.4	22469.0	21088.8	18502.3	18861.6
65°	4008.3	4129.3	4307.0	4677.6	5974.6	14955.4	26447.0	27301.6	25993.2	20854.3	20809.0
67.5°	3017.5	3093.2	3327.6	3921.3	4140.6	9237.9	24934.5	32406.5	31347.7	23467.3	22374.5
70°	2284.0	2348.2	2567.6	3380.6	3868.4	4953.6	19670.8	33544.7	33847.2	26397.9	23425.7
72.5°	1573.1	1644.9	1890.7	2817.1	3683.1	3928.9	12346.2	30474.2	31620.0	27604.1	22298.8
75°	964.3	1013.4	1157.1	2136.5	3656.6	3841.9	6795.2	24972.3	26186.1	25505.5	19508.2
77.5°	680.6	676.9	703.3	1251.6	3168.8	3864.6	4189.8	18298.1	19477.9	18797.3	13238.6
80°	495.4	499.1	525.6	748.7	2151.6	3928.9	3301.2	12255.5	12607.1	9801.4	5222.1
82.5°	298.7	313.9	378.1	506.7	1293.2	3546.9	3051.6	6810.3	6371.6	3146.1	1436.9
85°	158.8	158.8	223.1	321.4	688.2	2647.0	2938.1	3240.6	2715.0	975.6	533.2
87.5°	37.8	37.8	64.3	128.6	276.0	1266.8	2004.1	1289.5	1032.3	329.0	219.3
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°	7906.9	7906.9	7906.9	7906.9	7906.9	7906.9	7906.9	7906.9	7906.9	7906.9	7906.9
2.5°	7993.9	7948.5	8005.2	7891.8	7801.0	7804.8	7664.9	7657.3	7638.4	7540.1	7574.1
5°	8084.6	8046.8	7982.5	7857.7	7657.3	7456.9	7335.9	7180.9	7116.6	7082.5	7097.7
7.5°	8171.6	8103.5	7918.2	7744.3	7434.2	7056.1	6836.7	6628.8	6364.1	6333.8	6280.9
10°	8194.3	8050.6	7812.3	7441.8	7029.6	6609.9	6110.7	5725.0	5520.8	5362.0	5301.5
12.5°	8160.2	8099.7	7642.2	7165.7	6541.8	5883.8	5301.5	4757.0	4378.8	4182.2	4129.3
15°	8156.5	8050.6	7453.1	6746.0	5948.1	5089.7	4261.6	3607.4	3210.4	3047.8	3047.8
17.5°	8160.2	7906.9	7230.0	6322.5	5248.6	4087.7	3176.4	2639.4	2420.1	2397.4	2416.3
20°	8084.6	7801.0	6995.6	5823.3	4371.3	3070.5	2306.6	2087.3	2087.3	2117.6	2128.9
22.5°	8016.5	7642.2	6625.0	5207.0	3478.9	2223.5	1875.6	1811.3	1883.1	1936.1	1958.8
25°	7922.0	7509.8	6246.9	4567.9	2647.0	1792.4	1629.8	1644.9	1713.0	1807.5	1799.9
27.5°	7785.9	7279.2	5796.9	3826.8	1970.1	1546.6	1505.0	1512.6	1584.4	1626.0	1618.4
30°	7630.8	7044.7	5380.9	3089.4	1561.7	1418.0	1414.2	1433.1	1444.5	1467.2	1463.4
32.5°	7434.2	6734.6	4938.5	2401.2	1406.7	1346.2	1331.0	1319.7	1331.0	1327.3	1315.9
35°	7294.3	6568.3	4488.5	1830.2	1319.7	1281.9	1270.5	1251.6	1236.5	1213.8	1210.0
37.5°	7256.5	6401.9	4015.8	1493.6	1251.6	1232.7	1194.9	1160.9	1142.0	1130.6	1123.1
40°	7233.8	6292.2	3554.5	1312.1	1194.9	1176.0	1130.6	1085.3	1066.4	1055.0	1058.8
42.5°	7313.2	6231.7	3085.6	1221.4	1145.8	1111.7	1062.6	1009.6	1005.8	998.3	1009.6
45°	7593.0	6307.4	2650.8	1157.1	1096.6	1039.9	975.6	949.1	945.3	937.8	945.3
47.5°	8228.3	6496.4	2280.2	1115.5	1043.7	994.5	926.4	888.6	884.8	881.1	881.1
50°	9105.6	7078.8	1970.1	1066.4	1009.6	941.6	877.3	835.7	828.1	813.0	813.0
52.5°	10482.0	8058.1	1784.8	1039.9	949.1	892.4	824.3	779.0	760.1	744.9	744.9
55°	12032.4	9272.0	1750.8	994.5	884.8	831.9	771.4	726.0	707.1	688.2	680.6
57.5°	13798.3	10879.0	1992.8	964.3	839.5	771.4	703.3	661.7	646.6	627.7	620.1
60°	15443.2	12482.4	2745.3	918.9	797.9	714.7	646.6	605.0	586.1	567.2	567.2
62.5°	17345.2	14467.6	4019.6	918.9	760.1	654.2	586.1	555.9	544.5	525.6	521.8
65°	19595.1	16520.9	4949.8	975.6	748.7	601.2	529.4	499.1	487.8	476.5	472.7
67.5°	21308.1	17700.7	4257.8	1126.9	797.9	555.9	472.7	453.8	446.2	434.9	427.3
70°	21489.6	16982.2	2567.6	1217.6	847.0	510.5	423.5	404.6	404.6	393.3	385.7
72.5°	19859.8	15068.8	1728.1	1085.3	767.6	457.5	374.4	359.2	351.7	344.1	340.3
75°	16619.2	12781.1	1365.1	865.9	589.9	378.1	325.2	310.1	298.7	294.9	287.4
77.5°	11162.7	8307.7	1009.6	676.9	434.9	306.3	272.3	257.1	245.8	242.0	230.7
80°	4288.1	3165.0	650.4	491.6	306.3	242.0	215.5	200.4	192.9	181.5	173.9
82.5°	1263.0	1024.8	363.0	302.5	196.6	166.4	155.0	143.7	132.3	121.0	117.2
85°	521.8	468.9	223.1	158.8	121.0	98.3	90.8	79.4	68.1	60.5	52.9
87.5°	242.0	200.4	102.1	60.5	41.6	22.7	11.3	3.8	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)