

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: P480252

Luminaire Tested: **IFLD-L-SA7E-827-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480252  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-827-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

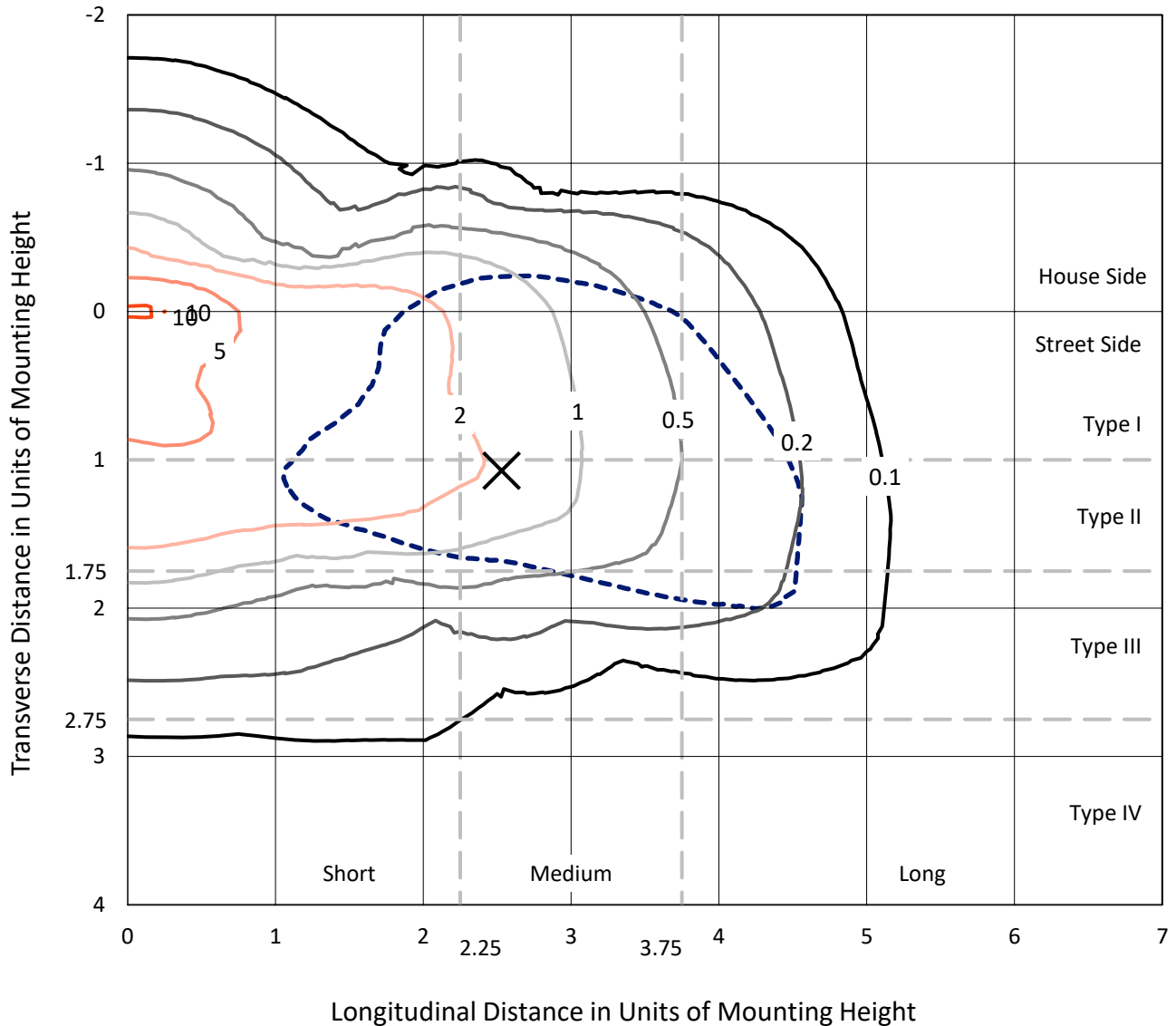
Lumens per Lamp: N/A  
Luminaire Lumens: 41375.4 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7  
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

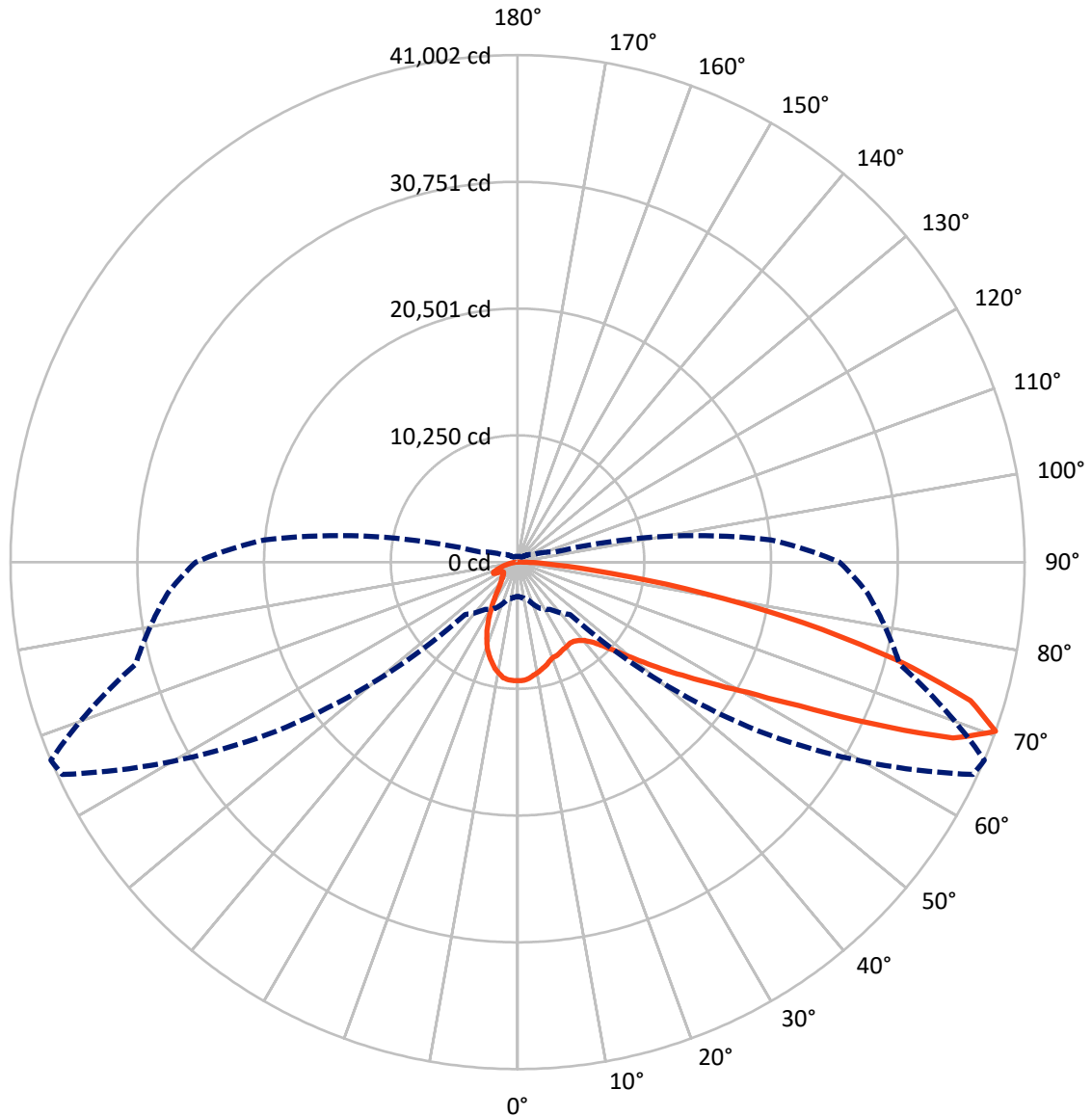
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 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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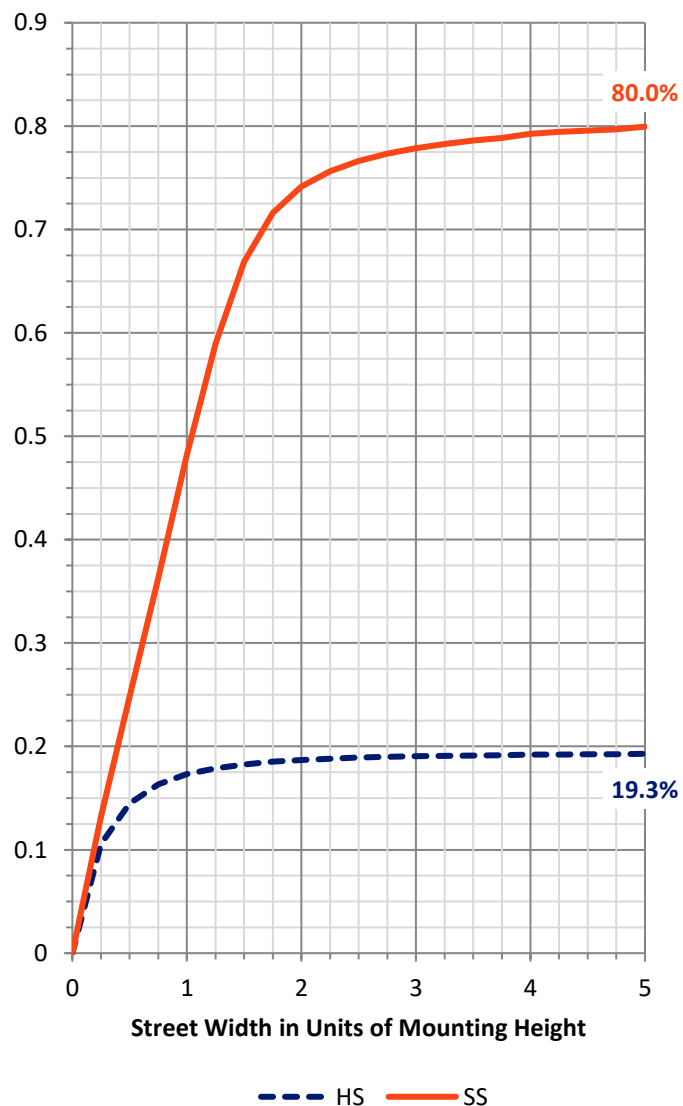
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8058.3	0.0	8058.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	33317.1	0.0	33317.1
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	41375.4	0.0	41375.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	835.7	2.0
10°-20°	2001.5	4.8
20°-30°	2702.9	6.5
30°-40°	3616.8	8.7
40°-50°	5318.3	12.9
50°-60°	8290.0	20.0
60°-70°	10211.9	24.7
70°-80°	7215.6	17.4
80°-90°	1182.7	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°	41375.4	100.0
0°-180°	41375.4	100.0

**Coefficient of Utilization**

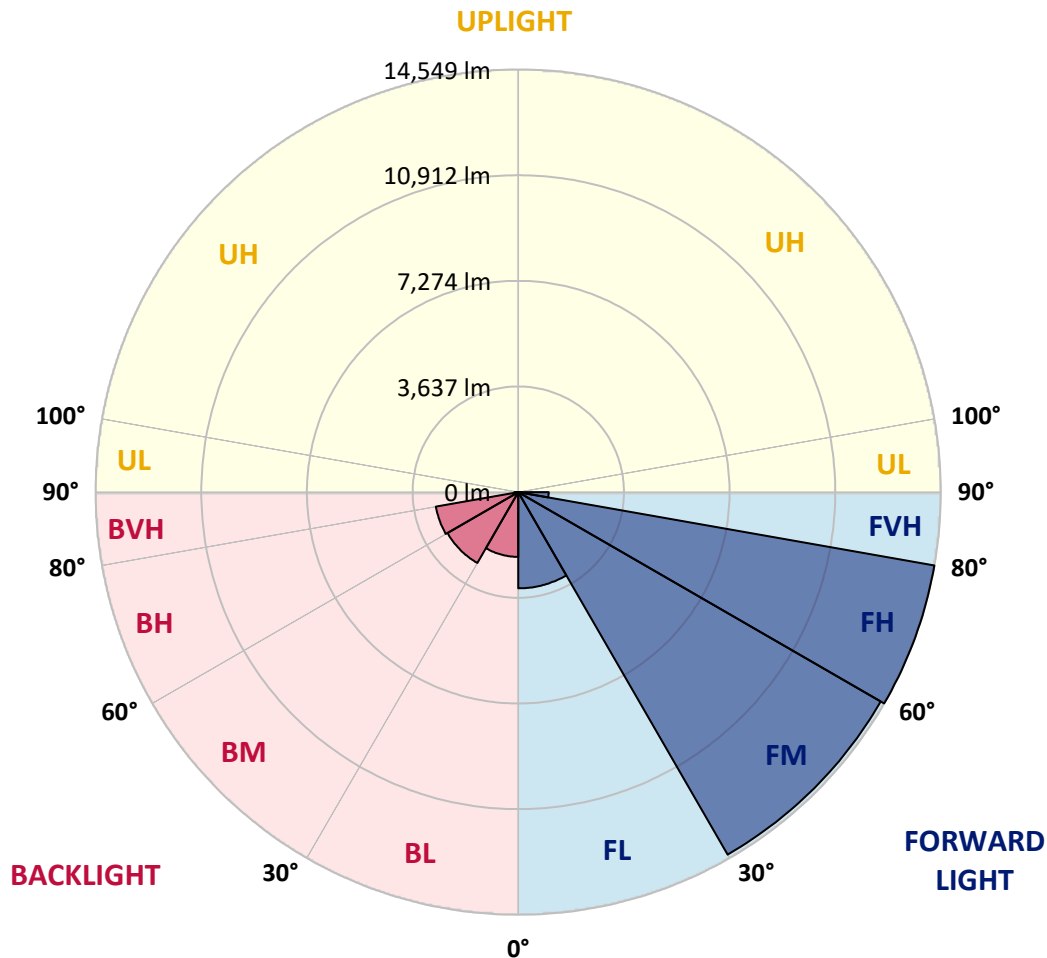


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3311.8	8.0			
FM (30°-60°)	14410.1	34.8			
FH (60°-80°)	14548.9	35.2			G5
FVH (80°-90°)	1046.2	2.5			G5
BL (0°-30°)	2228.4	5.4	B3/2500		
BM (30°-60°)	2814.9	6.8	B3/5000		
BH (60°-80°)	2878.5	7.0	B4/5000		G4/5000
BVH (80°-90°)	136.4	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°	9578.3	9578.3	9578.3	9578.3	9578.3	9578.3	9578.3	9578.3	9578.3	9578.3	9578.3
2.5°	8918.6	9019.4	9056.1	9111.0	9253.0	9358.4	9422.5	9495.8	9582.8	9656.1	9701.9
5°	8295.7	8350.6	8437.7	8497.2	8675.9	8959.9	9152.3	9463.7	9454.6	9569.1	9743.2
7.5°	7691.0	7746.0	7787.2	7906.3	8162.8	8419.3	8772.1	9275.9	9239.3	9505.0	9775.2
10°	7315.4	7274.2	7287.9	7489.5	7691.0	7979.6	8423.9	8937.0	9069.8	9482.1	9866.8
12.5°	6962.7	6916.9	7026.8	7155.1	7402.4	7663.5	8194.9	8657.5	8859.1	9399.6	9908.1
15°	6742.8	6710.7	6848.2	6903.1	7196.3	7507.8	7883.4	8446.8	8666.7	9298.8	9843.9
17.5°	6619.1	6646.6	6697.0	6816.1	7003.9	7269.6	7681.9	8304.8	8401.0	9175.2	9830.2
20°	6642.0	6674.1	6678.7	6729.1	6857.3	7063.5	7484.9	8153.7	8217.8	9152.3	9866.8
22.5°	6825.3	6779.5	6797.8	6765.7	6802.4	6962.7	7333.7	7952.1	8199.5	8959.9	9789.0
25°	7100.1	7036.0	7026.8	6916.9	6848.2	6894.0	7306.2	7901.7	8062.0	8900.3	9784.4
27.5°	7585.7	7489.5	7489.5	7324.6	7045.1	6971.8	7228.4	7819.3	7961.3	8845.4	9679.0
30°	8052.9	8052.9	8057.5	7823.9	7512.4	7150.5	7260.4	7787.2	7878.8	8680.4	9537.0
32.5°	8620.9	8607.2	8584.3	8469.7	7988.8	7448.2	7416.2	7746.0	7791.8	8625.5	9495.8
35°	9175.2	9138.5	9317.2	9216.4	8726.3	8030.0	7576.5	7764.3	7865.1	8543.0	9367.6
37.5°	9592.0	9614.9	9985.9	10050.1	9628.7	8689.6	8030.0	7947.5	8043.7	8662.1	9367.6
40°	10132.5	10224.1	10572.3	10787.6	10531.1	9559.9	8749.2	8254.4	8323.2	8927.8	9569.1
42.5°	10842.5	10920.4	11364.7	11644.2	11570.9	10668.5	9459.2	8895.7	8840.8	9372.1	9871.4
45°	11781.6	11795.3	12244.2	12629.0	12780.2	11827.4	10586.0	9706.5	9660.7	10137.1	10425.7
47.5°	12899.3	12885.5	13165.0	13577.2	13984.9	13210.8	11882.4	10938.7	10773.8	11231.9	11346.4
50°	13980.3	13920.8	13984.9	14511.7	15295.0	14942.3	13458.1	12445.8	12280.9	12532.8	12729.8
52.5°	14575.8	14649.1	14475.0	15171.3	16687.5	16989.9	15546.9	14246.0	14104.0	14227.7	14571.2
55°	14159.0	14310.1	14195.6	14855.2	17296.8	19486.3	18249.5	16330.2	16147.0	16101.2	16664.6
57.5°	12386.2	12661.1	12684.0	13728.4	17086.0	21419.4	22051.5	18790.1	18515.2	18048.0	18629.7
60°	9509.6	9784.4	9995.1	11231.9	15281.2	22573.7	26458.2	22289.7	21382.8	20173.4	20521.6
62.5°	6664.9	6852.7	7063.5	7823.9	11781.6	21895.8	30269.3	27218.6	25546.6	22413.4	22848.6
65°	4855.6	5002.1	5217.4	5666.3	7237.5	18116.7	32037.5	33072.7	31487.8	25262.6	25207.6
67.5°	3655.4	3747.0	4031.0	4750.2	5015.9	11190.7	30205.2	39256.7	37974.1	28427.9	27104.1
70°	2766.7	2844.6	3110.3	4095.2	4686.1	6000.7	23828.9	40635.5	41001.9	31977.9	28377.5
72.5°	1905.6	1992.6	2290.4	3412.6	4461.6	4759.4	14956.0	36915.9	38303.9	33439.2	27012.4
75°	1168.1	1227.6	1401.7	2588.1	4429.5	4654.0	8231.5	30251.0	31721.4	30896.9	23631.9
77.5°	824.5	819.9	852.0	1516.2	3838.6	4681.5	5075.4	22166.1	23595.2	22770.7	16037.1
80°	600.1	604.7	636.7	907.0	2606.4	4759.4	3999.0	14846.1	15272.1	11873.2	6326.0
82.5°	361.9	380.2	458.1	613.8	1566.6	4296.7	3696.6	8249.9	7718.5	3811.2	1740.7
85°	192.4	192.4	270.3	389.4	833.7	3206.5	3559.2	3925.7	3288.9	1181.8	645.9
87.5°	45.8	45.8	77.9	155.7	334.4	1534.5	2427.8	1562.0	1250.5	398.5	265.7
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°	9578.3	9578.3	9578.3	9578.3	9578.3	9578.3	9578.3	9578.3	9578.3	9578.3	9578.3
2.5°	9683.6	9628.7	9697.4	9559.9	9450.0	9454.6	9285.1	9275.9	9253.0	9133.9	9175.2
5°	9793.6	9747.8	9669.9	9518.7	9275.9	9033.2	8886.6	8698.8	8620.9	8579.7	8598.0
7.5°	9898.9	9816.5	9592.0	9381.3	9005.7	8547.6	8281.9	8030.0	7709.3	7672.7	7608.6
10°	9926.4	9752.3	9463.7	9014.8	8515.5	8007.1	7402.4	6935.2	6687.8	6495.4	6422.2
12.5°	9885.2	9811.9	9257.6	8680.4	7924.6	7127.6	6422.2	5762.5	5304.5	5066.3	5002.1
15°	9880.6	9752.3	9028.6	8172.0	7205.5	6165.6	5162.5	4370.0	3889.0	3692.1	3692.1
17.5°	9885.2	9578.3	8758.3	7658.9	6358.0	4951.7	3847.8	3197.3	2931.7	2904.2	2927.1
20°	9793.6	9450.0	8474.3	7054.3	5295.3	3719.5	2794.2	2528.6	2528.6	2565.2	2578.9
22.5°	9711.1	9257.6	8025.4	6307.6	4214.3	2693.5	2272.0	2194.2	2281.2	2345.3	2372.8
25°	9596.6	9097.3	7567.3	5533.5	3206.5	2171.3	1974.3	1992.6	2075.1	2189.6	2180.4
27.5°	9431.7	8817.9	7022.2	4635.7	2386.5	1873.5	1823.1	1832.3	1919.3	1969.7	1960.5
30°	9243.9	8533.9	6518.4	3742.4	1891.8	1717.8	1713.2	1736.1	1749.8	1777.3	1772.7
32.5°	9005.7	8158.2	5982.4	2908.8	1704.0	1630.7	1612.4	1598.7	1612.4	1607.8	1594.1
35°	8836.2	7956.7	5437.3	2217.1	1598.7	1552.9	1539.1	1516.2	1497.9	1470.4	1465.8
37.5°	8790.4	7755.1	4864.7	1809.4	1516.2	1493.3	1447.5	1406.3	1383.4	1369.6	1360.5
40°	8762.9	7622.3	4305.9	1589.5	1447.5	1424.6	1369.6	1314.7	1291.8	1278.0	1282.6
42.5°	8859.1	7549.0	3737.9	1479.6	1388.0	1346.7	1287.2	1223.0	1218.5	1209.3	1223.0
45°	9198.1	7640.6	3211.1	1401.7	1328.4	1259.7	1181.8	1149.8	1145.2	1136.0	1145.2
47.5°	9967.6	7869.7	2762.2	1351.3	1264.3	1204.7	1122.3	1076.5	1071.9	1067.3	1067.3
50°	11030.3	8575.1	2386.5	1291.8	1223.0	1140.6	1062.7	1012.3	1003.2	984.9	984.9
52.5°	12697.7	9761.5	2162.1	1259.7	1149.8	1081.0	998.6	943.6	920.7	902.4	902.4
55°	14575.8	11231.9	2120.9	1204.7	1071.9	1007.8	934.5	879.5	856.6	833.7	824.5
57.5°	16715.0	13178.7	2414.0	1168.1	1016.9	934.5	852.0	801.6	783.3	760.4	751.2
60°	18707.6	15120.9	3325.6	1113.1	966.5	865.8	783.3	732.9	710.0	687.1	687.1
62.5°	21011.7	17525.8	4869.3	1113.1	920.7	792.5	710.0	673.4	659.6	636.7	632.1
65°	23737.2	20013.1	5996.1	1181.8	907.0	728.3	641.3	604.7	590.9	577.2	572.6
67.5°	25812.3	21442.3	5157.9	1365.1	966.5	673.4	572.6	549.7	540.5	526.8	517.6
70°	26032.2	20572.0	3110.3	1475.0	1026.1	618.4	513.0	490.1	490.1	476.4	467.2
72.5°	24057.9	18254.1	2093.4	1314.7	929.9	554.3	453.5	435.2	426.0	416.8	412.3
75°	20132.2	15482.8	1653.6	1049.0	714.6	458.1	393.9	375.6	361.9	357.3	348.1
77.5°	13522.3	10063.8	1223.0	819.9	526.8	371.0	329.8	311.5	297.7	293.2	279.4
80°	5194.5	3834.1	787.9	595.5	371.0	293.2	261.1	242.8	233.6	219.9	210.7
82.5°	1530.0	1241.4	439.7	366.5	238.2	201.6	187.8	174.1	160.3	146.6	142.0
85°	632.1	568.0	270.3	192.4	146.6	119.1	109.9	96.2	82.5	73.3	64.1
87.5°	293.2	242.8	123.7	73.3	50.4	27.5	13.7	4.6	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)