

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: P477171

Luminaire Tested: **IFLD-L-SA7E-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477171
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

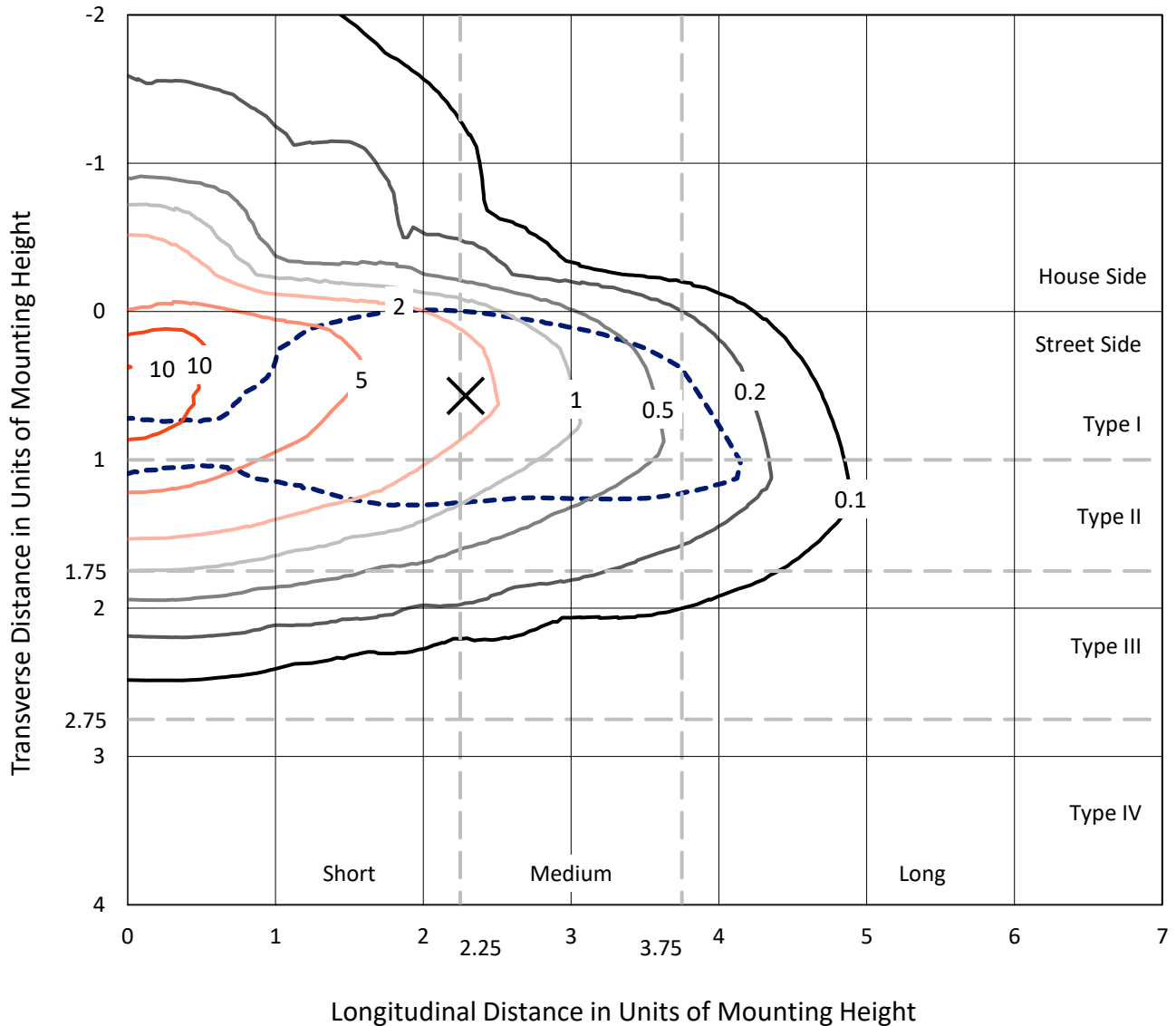
Lumens per Lamp: N/A
Luminaire Lumens: 45108.4 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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

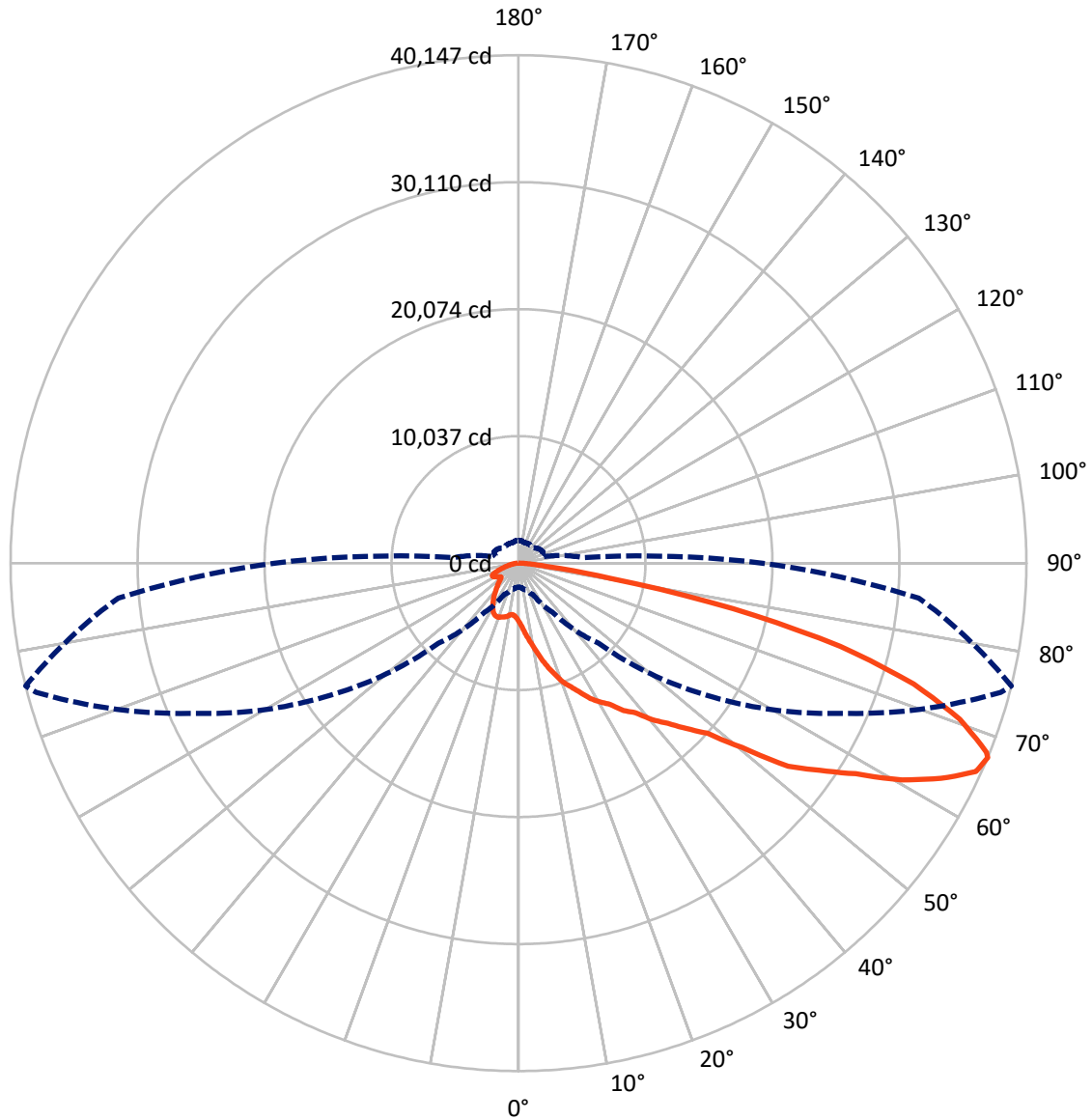
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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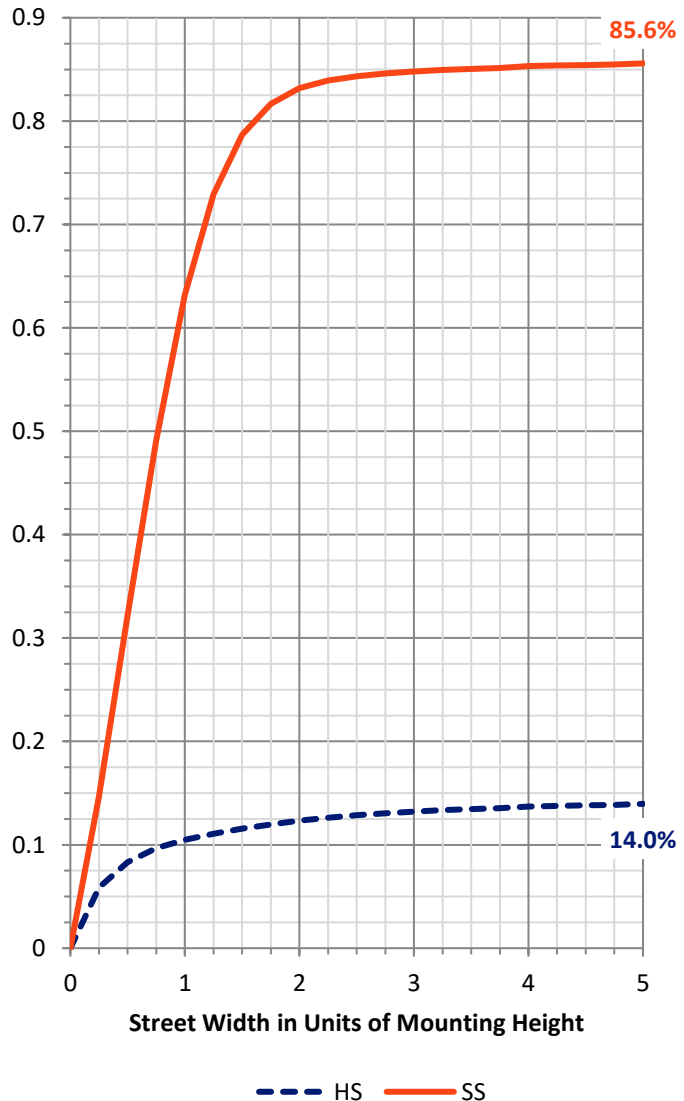
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6417.2	0.0	6417.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	38691.2	0.0	38691.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	45108.4	0.0	45108.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.7	1.2
10°-20°	2005.5	4.4
20°-30°	3728.4	8.3
30°-40°	5910.4	13.1
40°-50°	8174.6	18.1
50°-60°	10055.3	22.3
60°-70°	9356.9	20.7
70°-80°	4695.2	10.4
80°-90°	647.4	1.4
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°	45108.4	100.0
0°-180°	45108.4	100.0

Coefficient of Utilization



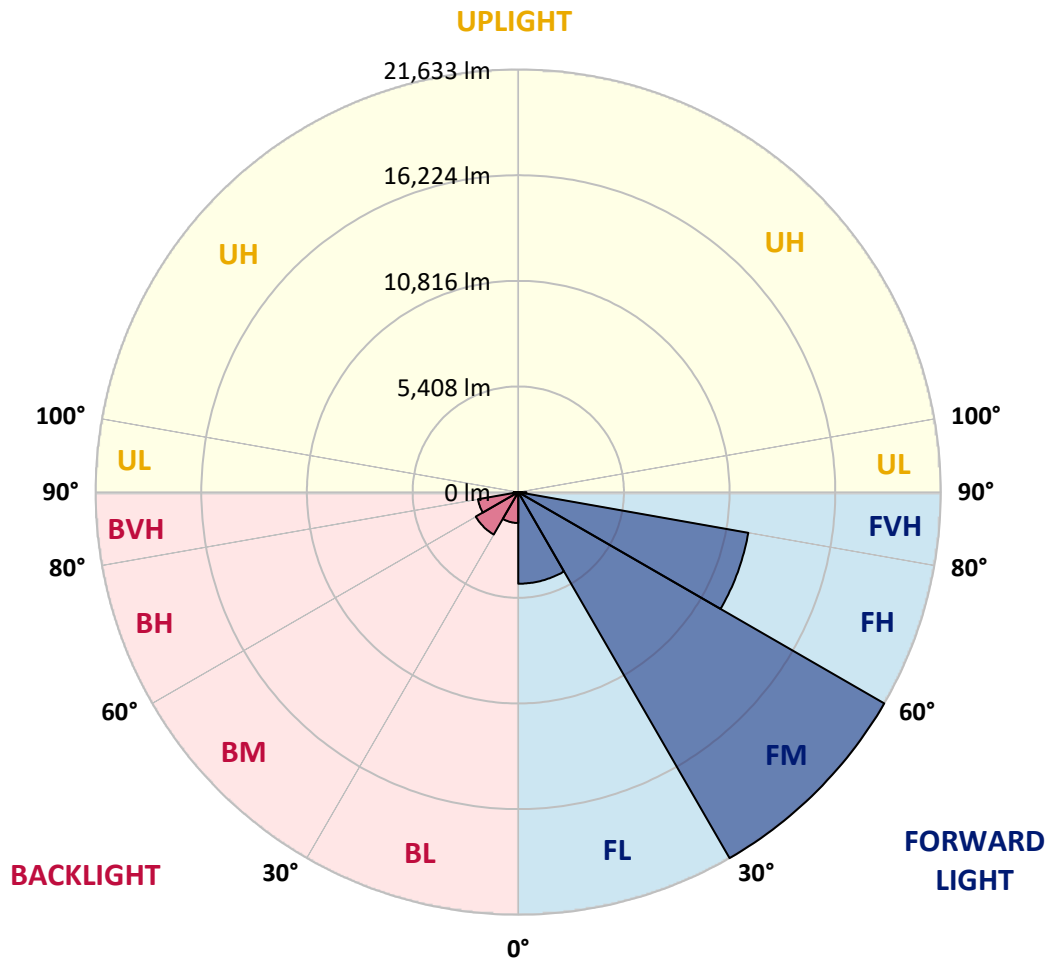
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4688.3	10.4			
FM (30°-60°)	21632.5	48.0			
FH (60°-80°)	11957.9	26.5			G4/12000
FVH (80°-90°)	412.5	0.9			G3/500
BL (0°-30°)	1580.3	3.5	B3/2500		
BM (30°-60°)	2507.7	5.6	B3/5000		
BH (60°-80°)	2094.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	234.9	0.5			G3/500
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4616.2	4616.2	4616.2	4616.2	4616.2	4616.2	4616.2	4616.2	4616.2	4616.2	4616.2
2.5°	6405.0	6327.9	6250.8	6086.3	6029.8	5875.6	5592.8	5279.3	5022.3	4986.3	4806.4
5°	7947.2	7834.1	7808.4	7715.9	7422.9	7124.7	6662.1	6158.3	5531.2	5577.4	4960.6
7.5°	9103.8	9037.0	8898.2	8810.8	8636.0	8240.2	7762.1	7093.9	6297.1	6142.9	5305.0
10°	9977.7	9885.2	9880.0	9802.9	9710.4	9304.3	8939.3	8039.7	7016.8	6806.0	5726.5
12.5°	10419.8	10404.3	10676.8	10676.8	10640.8	10471.2	9844.0	9021.6	7700.4	7628.5	6214.8
15°	10897.8	10769.3	11005.8	11185.7	11278.2	11365.6	10846.4	9977.7	8574.3	8435.5	6739.2
17.5°	10897.8	10887.5	11124.0	11422.2	11905.4	12018.5	11735.7	10856.7	9299.1	9196.3	7314.9
20°	10712.8	10861.8	11026.3	11427.3	11951.6	12409.1	12491.4	11756.3	10101.1	10018.8	7967.8
22.5°	11576.4	11432.4	11602.1	11756.3	12162.4	12856.4	13082.5	12547.9	10944.1	10630.5	8558.9
25°	13026.0	12928.3	12805.0	12578.8	12748.4	13051.7	13396.1	13133.9	11663.8	11314.2	9129.5
27.5°	14439.6	14444.8	14177.5	13684.0	13319.0	13380.7	13786.8	13648.0	12270.3	12116.1	9520.2
30°	16449.6	16326.2	16028.0	15359.8	14645.2	14059.2	13992.4	14126.1	13041.4	12743.3	10080.5
32.5°	17955.7	17981.4	17559.9	16598.6	15621.9	15143.9	14557.9	14614.4	13529.8	13308.7	10527.7
35°	19174.0	19143.2	18845.0	18048.2	16891.6	16315.9	15524.3	15200.4	14665.8	14316.3	11211.4
37.5°	20490.0	20238.1	19754.9	18855.3	18115.1	17318.3	16547.2	15817.3	15421.5	14999.9	11797.4
40°	21019.4	21019.4	20371.7	19960.5	19081.5	18480.0	17981.4	16629.5	16341.6	16259.4	12547.9
42.5°	20644.2	20875.5	20608.2	20140.4	19780.6	19019.8	18886.1	17472.5	17477.7	17313.2	13447.5
45°	20608.2	20289.5	20068.5	20186.7	20017.1	19975.9	20315.2	18639.4	18670.2	18649.7	14655.5
47.5°	19575.0	19431.0	19760.0	19955.4	20094.2	20731.6	21708.3	20032.5	20253.5	20099.3	16048.6
50°	18546.9	18521.2	18726.8	19436.2	20037.6	21086.3	23034.5	22181.2	22906.0	22895.7	18572.6
52.5°	15729.9	16002.3	16809.4	18310.4	19796.0	21569.5	24036.9	24926.2	26309.0	26684.3	20664.8
55°	13036.3	12892.3	14084.9	16264.5	18742.2	21759.7	25157.5	26576.3	28611.9	28884.4	22813.5
57.5°	10142.2	10409.5	11350.2	13442.4	16562.6	20819.0	25980.0	28205.8	31213.0	31423.8	25306.6
60°	7566.8	7602.8	8636.0	10322.1	13663.4	18695.9	26247.3	29876.5	34194.5	34796.0	27918.0
62.5°	4760.1	4976.0	5762.5	7422.9	10286.1	15724.7	25049.6	30889.2	37319.9	37479.3	30549.9
65°	2565.1	2703.9	3295.1	4338.6	7186.4	11895.1	21872.8	30282.6	38790.1	39736.0	31721.9
67°	1896.8	1922.5	2195.0	2770.7	4806.4	8954.7	18238.4	28087.6	39458.4	40147.2	31768.2
67.5°	1778.6	1814.6	2030.5	2488.0	4261.5	8245.3	17287.5	27306.3	39160.2	39900.5	31408.4
70°	1521.6	1531.9	1583.3	1711.8	2390.3	4960.6	11771.7	22376.5	36297.0	37006.4	28884.4
72.5°	1351.9	1362.2	1382.8	1408.5	1619.3	2868.4	7160.7	17220.6	31547.2	32678.1	24921.1
75°	1187.5	1223.4	1233.7	1213.2	1377.7	1866.0	3809.1	12655.9	25733.3	26283.3	19379.6
77.5°	1007.5	1023.0	1043.5	1064.1	1228.6	1393.1	1830.0	8543.5	17662.7	17328.6	10481.5
80°	848.2	853.3	868.7	884.2	1064.1	1064.1	1038.4	4616.2	7715.9	7376.6	3541.8
82.5°	606.6	642.6	678.5	719.7	884.2	714.5	678.5	2056.2	2441.7	2323.5	1197.7
85°	236.5	287.9	447.2	493.5	560.3	385.5	452.4	889.3	1017.8	1007.5	447.2
87.5°	41.1	46.3	123.4	190.2	205.6	133.7	215.9	318.7	380.4	411.2	164.5
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°	4616.2	4616.2	4616.2	4616.2	4616.2	4616.2	4616.2	4616.2	4616.2	4616.2	4616.2
2.5°	4657.3	4497.9	4307.7	4117.5	3994.2	3798.8	3783.4	3665.2	3649.7	3608.6	3629.2
5°	4693.3	4503.1	4117.5	3814.2	3675.4	3562.4	3588.1	3536.7	3521.2	3495.5	3454.4
7.5°	4976.0	4600.7	4025.0	3762.8	3660.0	3608.6	3608.6	3546.9	3500.7	3531.5	3562.4
10°	5161.0	4647.0	4097.0	3834.8	3752.6	3639.5	3680.6	3603.5	3629.2	3567.5	3567.5
12.5°	5459.2	4909.2	4246.0	3942.8	3809.1	3706.3	3747.4	3660.0	3639.5	3644.6	3629.2
15°	5860.2	5083.9	4312.9	4004.4	3911.9	3783.4	3752.6	3675.4	3598.3	3572.6	3603.5
17.5°	6235.4	5299.8	4359.1	4040.4	3891.3	3747.4	3711.4	3613.8	3588.1	3511.0	3449.3
20°	6682.6	5556.9	4420.8	4071.3	3814.2	3670.3	3577.8	3480.1	3392.7	3346.5	3367.0
22.5°	6980.8	5690.5	4451.7	4009.6	3701.2	3567.5	3372.2	3305.3	3182.0	3130.6	3089.4
25°	7469.1	5855.0	4374.6	3839.9	3500.7	3284.8	3110.0	3017.5	2930.1	2863.3	2842.7
27.5°	7592.5	5978.4	4194.6	3552.1	3182.0	2955.8	2806.7	2693.6	2637.1	2534.3	2513.7
30°	7952.3	5855.0	3927.3	3202.5	2878.7	2647.4	2498.3	2416.0	2282.4	2256.7	2200.1
32.5°	8183.7	5891.0	3588.1	2863.3	2529.1	2323.5	2225.8	2143.6	2107.6	1984.2	1953.4
35°	8569.2	5767.6	3243.6	2549.7	2241.3	2081.9	1999.6	1973.9	1855.7	1799.2	1747.8
37.5°	8815.9	5695.7	2899.2	2195.0	1927.7	1860.9	1886.6	1778.6	1634.7	1526.7	1490.7
40°	9247.7	5670.0	2508.6	1902.0	1711.8	1696.4	1778.6	1573.0	1310.8	1218.3	1166.9
42.5°	9869.7	5495.2	2205.3	1639.8	1542.1	1609.0	1624.4	1310.8	1161.7	1084.6	1048.7
45°	10466.0	5531.2	1907.1	1357.1	1341.7	1439.3	1403.4	1110.3	1023.0	966.4	997.3
47.5°	11612.4	5711.1	1614.1	1130.9	1208.0	1300.5	1089.8	992.1	909.9	868.7	873.9
50°	13385.8	5885.9	1357.1	1033.2	1141.2	1177.2	935.6	899.6	894.4	812.2	807.1
52.5°	14449.9	5819.0	1310.8	1156.6	1223.4	1177.2	1017.8	992.1	951.0	915.0	873.9
55°	16141.1	6014.4	1408.5	1351.9	1387.9	1130.9	1141.2	1130.9	1100.1	1007.5	1033.2
57.5°	17487.9	6142.9	1537.0	1511.3	1490.7	1177.2	1192.6	1197.7	1177.2	1136.0	1172.0
60°	19338.5	6399.9	1670.7	1675.8	1680.9	1280.0	1305.7	1336.5	1331.4	1316.0	1326.2
62.5°	20474.6	6281.7	1819.7	1902.0	1876.3	1490.7	1485.6	1506.2	1506.2	1531.9	1547.3
65°	20304.9	5844.7	1896.8	2102.5	1968.8	1645.0	1645.0	1655.2	1660.4	1711.8	1716.9
67°	19287.1	5063.4	1855.7	2133.3	1968.8	1706.6	1706.6	1716.9	1680.9	1814.6	1773.5
67.5°	18814.2	4832.1	1819.7	2107.6	1953.4	1701.5	1701.5	1706.6	1675.8	1804.3	1763.2
70°	16362.2	3588.1	1567.8	1866.0	1809.5	1655.2	1655.2	1624.4	1598.7	1768.3	1732.3
72.5°	13966.7	2606.2	1259.4	1588.4	1634.7	1593.6	1603.8	1526.7	1454.8	1573.0	1542.1
75°	10697.4	1917.4	981.8	1223.4	1382.8	1490.7	1557.6	1362.2	1269.7	1300.5	1244.0
77.5°	5968.1	1249.1	776.2	904.7	1053.8	1387.9	1495.9	1228.6	1038.4	1002.4	1002.4
80°	2025.4	729.9	570.6	673.4	724.8	1228.6	1398.2	997.3	817.3	781.4	755.7
82.5°	765.9	447.2	390.7	462.6	462.6	971.6	1141.2	765.9	616.9	796.8	812.2
85°	349.6	267.3	257.0	267.3	267.3	596.3	807.1	498.6	555.2	478.1	421.5
87.5°	138.8	128.5	118.2	113.1	92.5	102.8	277.6	133.7	251.9	66.8	61.7
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)