

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: P476730

Luminaire Tested: **IFLD-S-SA6C-827-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476730
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-827-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

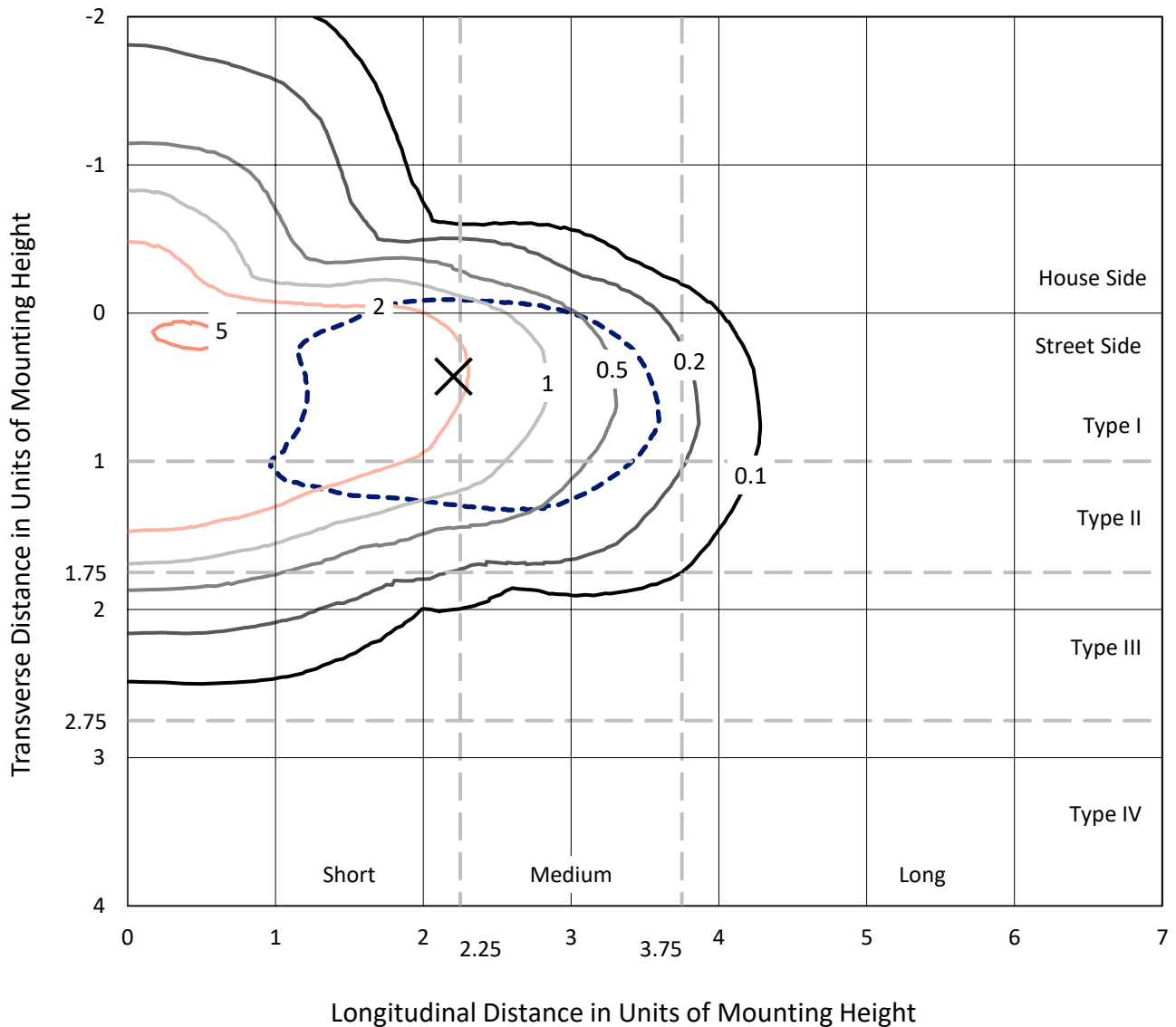
Lumens per Lamp: N/A
Luminaire Lumens: 30507.9 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 321.5
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

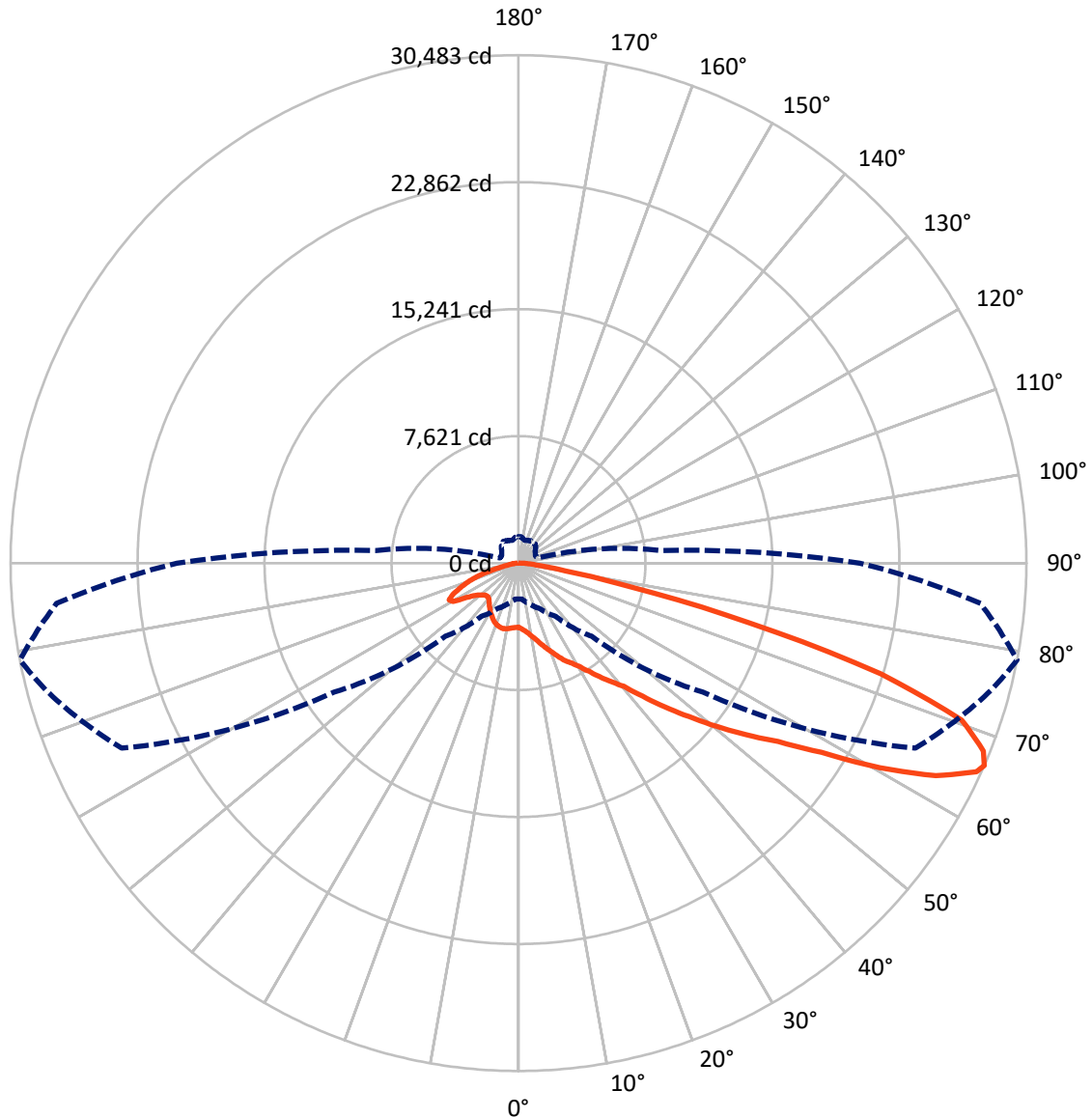
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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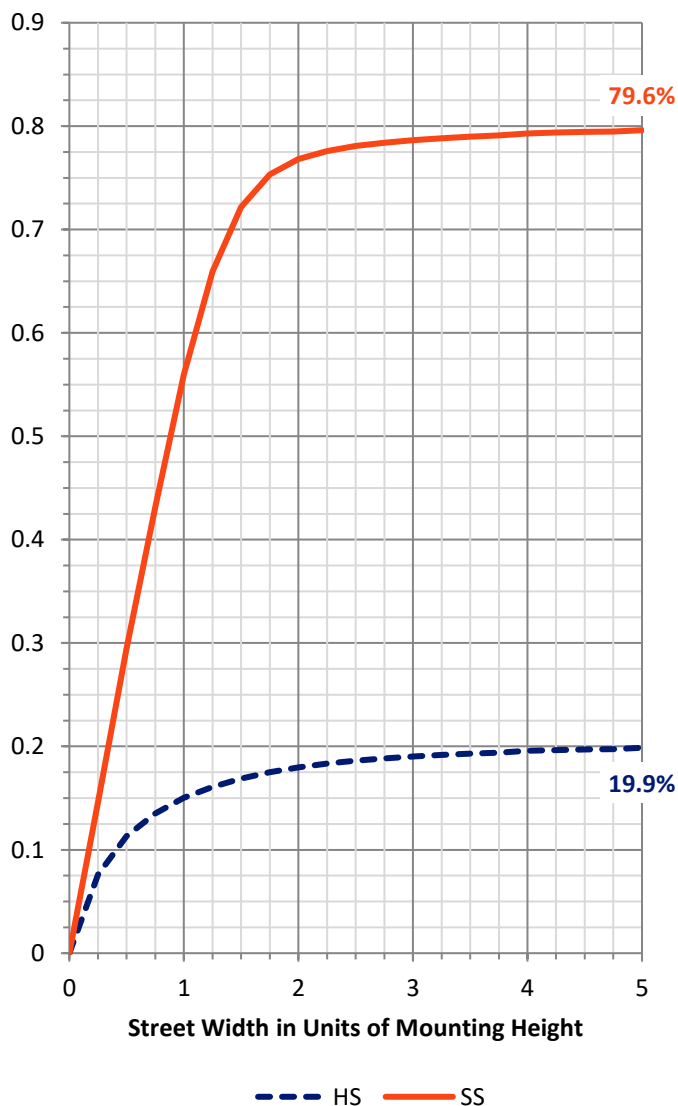
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6160.6	0.0	6160.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	24347.2	0.0	24347.2
	% Fixture	79.8	0.0	79.8
Total	Lumens	30507.9	0.0	30507.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.8	1.2
10°-20°	1169.7	3.8
20°-30°	2007.8	6.6
30°-40°	3101.7	10.2
40°-50°	4968.1	16.3
50°-60°	7417.8	24.3
60°-70°	7621.8	25.0
70°-80°	3378.6	11.1
80°-90°	463.6	1.5
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°	30507.9	100.0
0°-180°	30507.9	100.0

Coefficient of Utilization



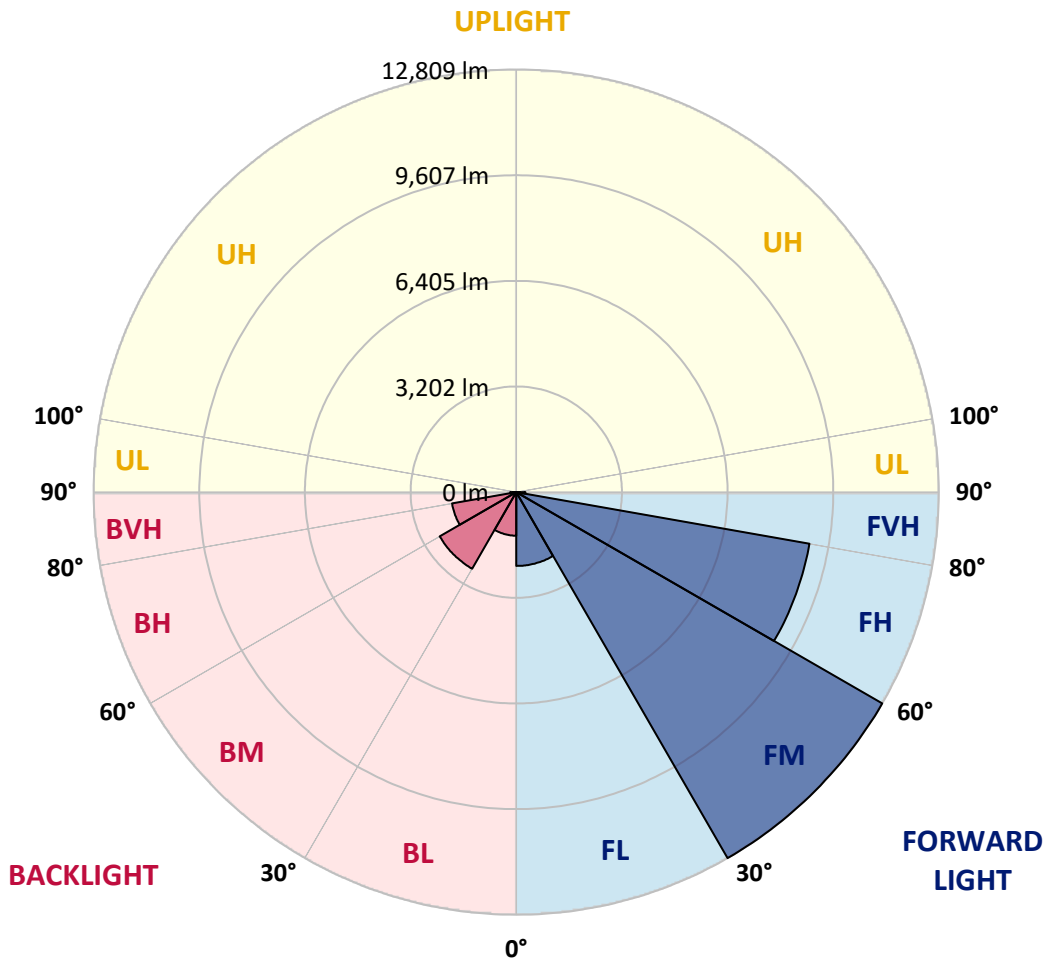
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2236.4	7.3			
FM (30°-60°)	12809.2	42.0			
FH (60°-80°)	9023.6	29.6			G4/12000
FVH (80°-90°)	278.0	0.9			G3/500
BL (0°-30°)	1319.9	4.3	B3/2500		
BM (30°-60°)	2678.4	8.8	B3/5000		
BH (60°-80°)	1976.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	185.5	0.6			G2/225
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3852.3	3852.3	3852.3	3852.3	3852.3	3852.3	3852.3	3852.3	3852.3	3852.3	3852.3
2.5°	4097.3	4100.6	4100.6	4087.2	4090.6	4100.6	4063.7	3983.2	3983.2	3969.7	3946.3
5°	4348.9	4332.2	4308.7	4312.0	4298.6	4298.6	4258.3	4181.2	4114.0	4087.2	4016.7
7.5°	4382.5	4399.3	4395.9	4436.2	4456.3	4456.3	4476.5	4412.7	4312.0	4248.3	4177.8
10°	4449.6	4406.0	4402.6	4496.6	4526.8	4597.3	4677.8	4644.2	4560.3	4469.7	4375.8
12.5°	4489.9	4516.7	4516.7	4563.7	4634.2	4738.2	4879.1	4942.9	4812.0	4718.1	4573.8
15°	4550.3	4513.4	4620.7	4661.0	4795.2	4869.1	5070.4	5234.8	5147.6	5033.5	4805.3
17.5°	4577.1	4553.6	4614.0	4687.9	4916.0	5026.8	5271.7	5499.9	5426.1	5352.3	5117.4
20°	4714.7	4711.3	4738.2	4798.6	4963.0	5181.1	5486.5	5801.9	5828.8	5694.6	5375.8
22.5°	5050.3	5006.6	5006.6	4983.2	5053.6	5278.5	5691.2	6127.4	6248.2	6090.5	5667.7
25°	5359.0	5419.4	5382.5	5275.1	5248.3	5365.7	5838.9	6473.1	6634.1	6486.5	6063.7
27.5°	5755.0	5775.1	5838.9	5694.6	5510.0	5546.9	5999.9	6667.7	6999.9	6801.9	6288.5
30°	6325.4	6288.5	6275.1	6114.0	5872.4	5822.1	6184.5	6952.9	7479.8	7201.2	6553.6
32.5°	6711.3	6801.9	6798.6	6577.1	6285.2	6174.4	6412.7	7221.4	7993.2	7734.8	7043.5
35°	7476.4	7570.4	7496.5	7171.0	6828.8	6607.3	6741.5	7570.4	8580.4	8379.1	7459.6
37.5°	8452.9	8674.4	8516.7	7916.0	7432.8	7191.2	7197.9	7949.6	9181.1	9016.7	7905.9
40°	9127.4	9426.1	9207.9	8644.2	8130.8	7902.6	7812.0	8399.2	9899.2	9724.7	8603.9
42.5°	9963.0	10211.3	10097.2	9540.1	8939.5	8744.9	8563.6	9150.9	10996.5	10916.0	9499.9
45°	10875.7	10993.1	10956.2	10603.9	9936.1	9869.0	9469.7	10140.8	12288.4	12322.0	10620.7
47.5°	11724.7	11788.4	11858.9	11603.9	11187.8	11244.8	10513.3	11201.2	13543.4	13764.9	11869.0
50°	11942.8	12160.9	12325.3	12496.5	12587.1	12973.0	11664.3	12503.2	14986.4	15415.9	13258.2
52.5°	11721.3	11704.5	12204.5	12741.4	13647.5	14456.2	13231.4	14120.6	16261.5	17110.5	14530.0
55°	10714.6	10681.1	11486.4	12197.8	13966.3	15281.7	15469.6	16275.0	17801.8	18905.8	16251.5
57.5°	8952.9	8744.9	9624.0	10791.8	13275.0	15372.3	17717.9	19472.9	20170.9	21429.3	18878.9
60°	6016.7	5929.5	6771.7	8164.3	10778.4	14087.1	19063.5	23476.2	23509.8	24925.8	22956.1
62.5°	3704.6	3721.4	4261.7	5305.3	7546.9	11167.6	18483.0	26674.1	26680.9	28100.3	26311.7
65°	2422.8	2432.9	2869.1	3446.3	4714.7	7573.7	15285.0	26925.8	28885.5	30204.3	27848.6
66°	2157.7	2161.0	2536.9	3006.7	3906.0	6197.9	13499.8	26271.5	29382.2	30482.8	27828.5
67.5°	1818.8	1862.4	2164.4	2526.8	3046.9	4453.0	10711.3	24378.9	29127.1	30093.6	27197.6
70°	1422.8	1446.3	1684.5	2053.7	2285.2	2577.1	6365.7	19872.2	26660.7	28227.8	24902.4
72.5°	1140.9	1161.1	1342.3	1667.8	1855.7	1698.0	3466.4	14419.3	21060.1	22731.2	19587.0
75°	963.1	966.4	1053.7	1312.1	1526.8	1275.2	1845.6	9254.9	13513.2	14291.8	11999.8
77.5°	778.5	791.9	852.3	1000.0	1228.2	1003.3	1100.7	5184.5	6785.1	6842.2	5546.9
80°	634.2	640.9	677.8	728.2	936.2	741.6	745.0	2530.2	2909.4	2842.2	2255.0
82.5°	500.0	506.7	550.3	540.3	687.9	530.2	463.1	1218.1	1338.9	1312.1	1036.9
85°	281.9	281.9	432.9	432.9	436.2	335.6	281.9	573.8	708.0	661.1	486.6
87.5°	90.6	94.0	130.9	137.6	218.1	151.0	137.6	214.8	335.6	295.3	174.5
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°	3852.3	3852.3	3852.3	3852.3	3852.3	3852.3	3852.3	3852.3	3852.3	3852.3	3852.3
2.5°	3932.8	3879.1	3855.7	3778.5	3758.3	3708.0	3684.5	3654.3	3644.2	3600.6	3640.9
5°	3963.0	3946.3	3852.3	3755.0	3681.2	3647.6	3597.3	3530.2	3523.4	3463.0	3456.3
7.5°	4090.6	4033.5	3869.1	3765.1	3617.4	3533.5	3422.8	3389.2	3345.6	3325.5	3369.1
10°	4288.5	4144.2	3899.3	3637.5	3456.3	3355.7	3275.1	3251.6	3255.0	3241.6	3221.4
12.5°	4429.5	4291.9	3848.9	3530.2	3295.3	3197.9	3191.2	3214.7	3251.6	3234.9	3258.3
15°	4630.8	4372.4	3812.0	3352.3	3164.4	3137.5	3134.2	3204.7	3201.3	3201.3	3197.9
17.5°	4818.7	4453.0	3677.8	3197.9	3026.8	3046.9	3070.4	3067.1	3100.6	3114.1	3137.5
20°	5057.0	4546.9	3489.9	3043.6	2922.8	2916.1	2912.7	2916.1	2949.6	2969.8	2953.0
22.5°	5265.0	4567.1	3332.2	2895.9	2798.6	2771.8	2728.2	2771.8	2755.0	2761.7	2781.8
25°	5446.2	4570.4	3107.3	2785.2	2674.5	2614.1	2580.5	2577.1	2546.9	2543.6	2543.6
27.5°	5597.2	4456.3	2909.4	2630.8	2526.8	2469.8	2466.4	2429.5	2352.3	2302.0	2308.7
30°	5714.7	4369.1	2771.8	2496.6	2395.9	2385.9	2355.7	2271.8	2171.1	2107.4	2107.4
32.5°	5922.7	4194.6	2583.9	2359.0	2308.7	2295.3	2224.8	2151.0	2057.0	1996.6	1986.6
35°	6077.1	4033.5	2459.7	2241.6	2218.1	2191.2	2130.8	2050.3	2023.5	2010.0	2020.1
37.5°	6251.6	3852.3	2308.7	2140.9	2164.4	2114.1	2043.6	2006.7	2100.6	2077.2	2087.2
40°	6530.1	3724.8	2161.0	2080.5	2104.0	2047.0	1956.4	1942.9	2060.4	1976.5	1956.4
42.5°	7040.2	3721.4	2070.4	1989.9	2006.7	1963.1	1882.5	1875.8	1922.8	1822.1	1791.9
45°	7674.4	3838.9	2003.3	1922.8	1909.4	1902.7	1875.8	1845.6	1805.3	1674.5	1640.9
47.5°	8432.8	4030.1	1989.9	1822.1	1838.9	1895.9	1862.4	1785.2	1681.2	1597.3	1580.5
50°	9352.2	4426.1	1956.4	1748.3	1778.5	1869.1	1842.3	1734.9	1640.9	1587.2	1577.2
52.5°	10369.0	4926.1	1912.7	1634.2	1701.3	1845.6	1859.0	1758.4	1620.8	1573.8	1567.1
55°	11567.0	5664.4	1862.4	1510.0	1610.7	1822.1	1859.0	1691.3	1593.9	1593.9	1587.2
57.5°	13932.7	6993.2	1758.4	1396.0	1530.2	1778.5	1805.3	1694.6	1597.3	1597.3	1583.9
60°	17402.5	9067.0	1560.4	1308.7	1453.0	1718.1	1765.1	1644.3	1560.4	1580.5	1577.2
62.5°	20117.2	9697.9	1392.6	1224.8	1375.8	1607.4	1711.4	1590.6	1516.8	1590.6	1597.3
65°	20697.7	9060.3	1221.5	1134.2	1268.4	1500.0	1634.2	1513.4	1453.0	1597.3	1604.0
66°	20489.7	8563.6	1161.1	1107.4	1221.5	1446.3	1587.2	1486.6	1419.4	1590.6	1593.9
67.5°	19563.5	7818.7	1093.9	1050.3	1157.7	1369.1	1533.5	1449.6	1365.8	1570.4	1540.2
70°	17550.1	6630.8	979.9	949.7	1067.1	1241.6	1409.4	1355.7	1281.9	1446.3	1392.6
72.5°	13516.6	5298.6	859.0	862.4	963.1	1110.7	1285.2	1248.3	1184.5	1268.4	1234.9
75°	8231.4	3385.9	748.3	755.0	838.9	986.6	1167.8	1140.9	1063.7	1110.7	1093.9
77.5°	3647.6	1677.8	630.9	644.3	711.4	869.1	1016.8	973.1	892.6	902.7	896.0
80°	1416.1	795.3	513.4	530.2	573.8	694.6	842.3	802.0	731.5	718.1	711.4
82.5°	681.2	442.9	396.0	402.7	419.5	553.7	724.8	674.5	580.5	520.1	520.1
85°	342.3	275.2	278.5	255.0	278.5	375.8	489.9	409.4	338.9	302.0	308.7
87.5°	137.6	137.6	137.6	117.4	124.2	177.9	228.2	154.4	140.9	83.9	83.9
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)