

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: P476735

Luminaire Tested: **IFLD-M-SA4C-827-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476735
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-827-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

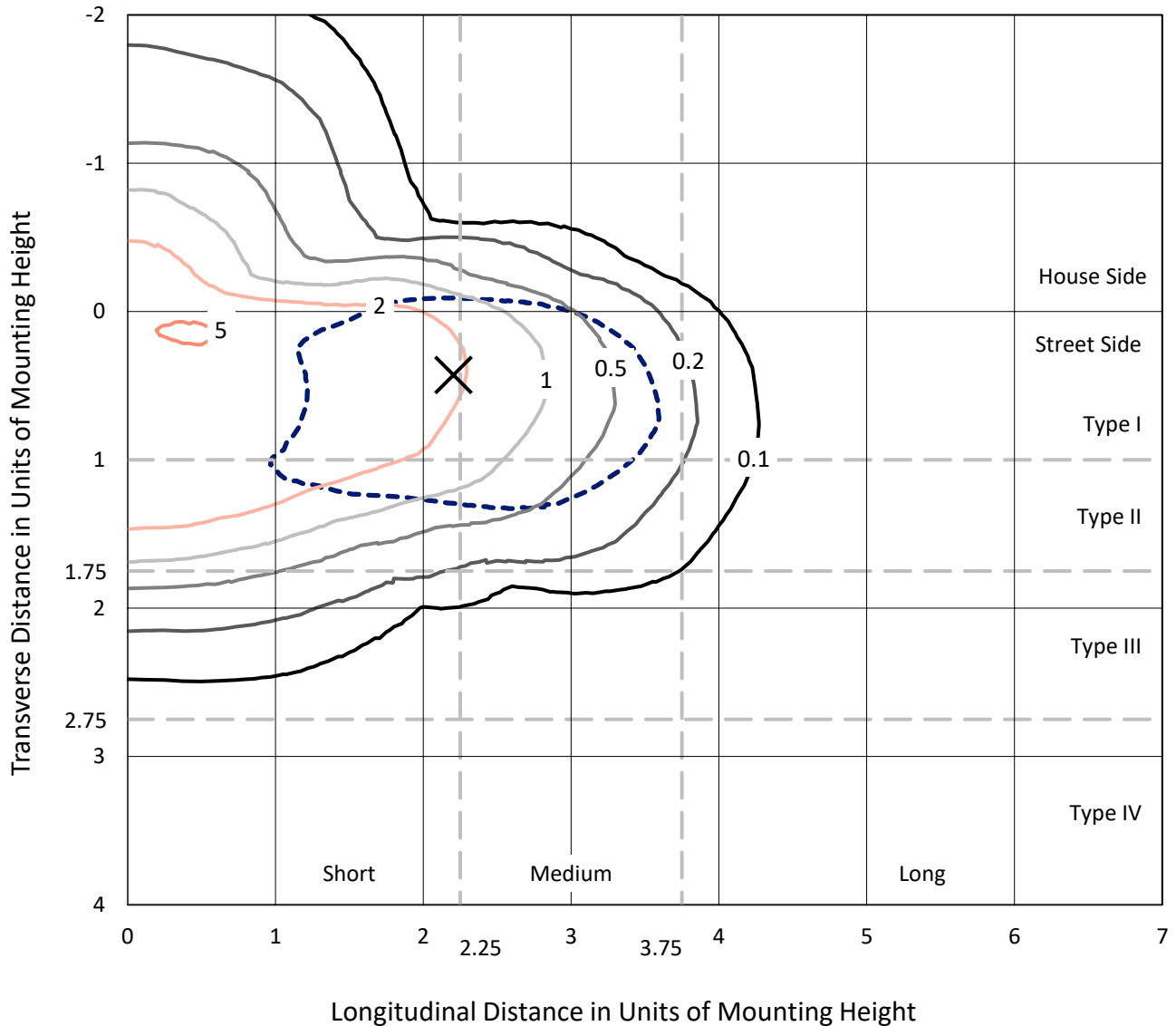
Lumens per Lamp: N/A
Luminaire Lumens: 20874.9 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 218.1
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

REPORT NUMBER: P476735
 CATALOG NUMBER: IFLD-M-SA4C-827-U-T2

Iso-Footcandle Lines of Horizontal Illumination

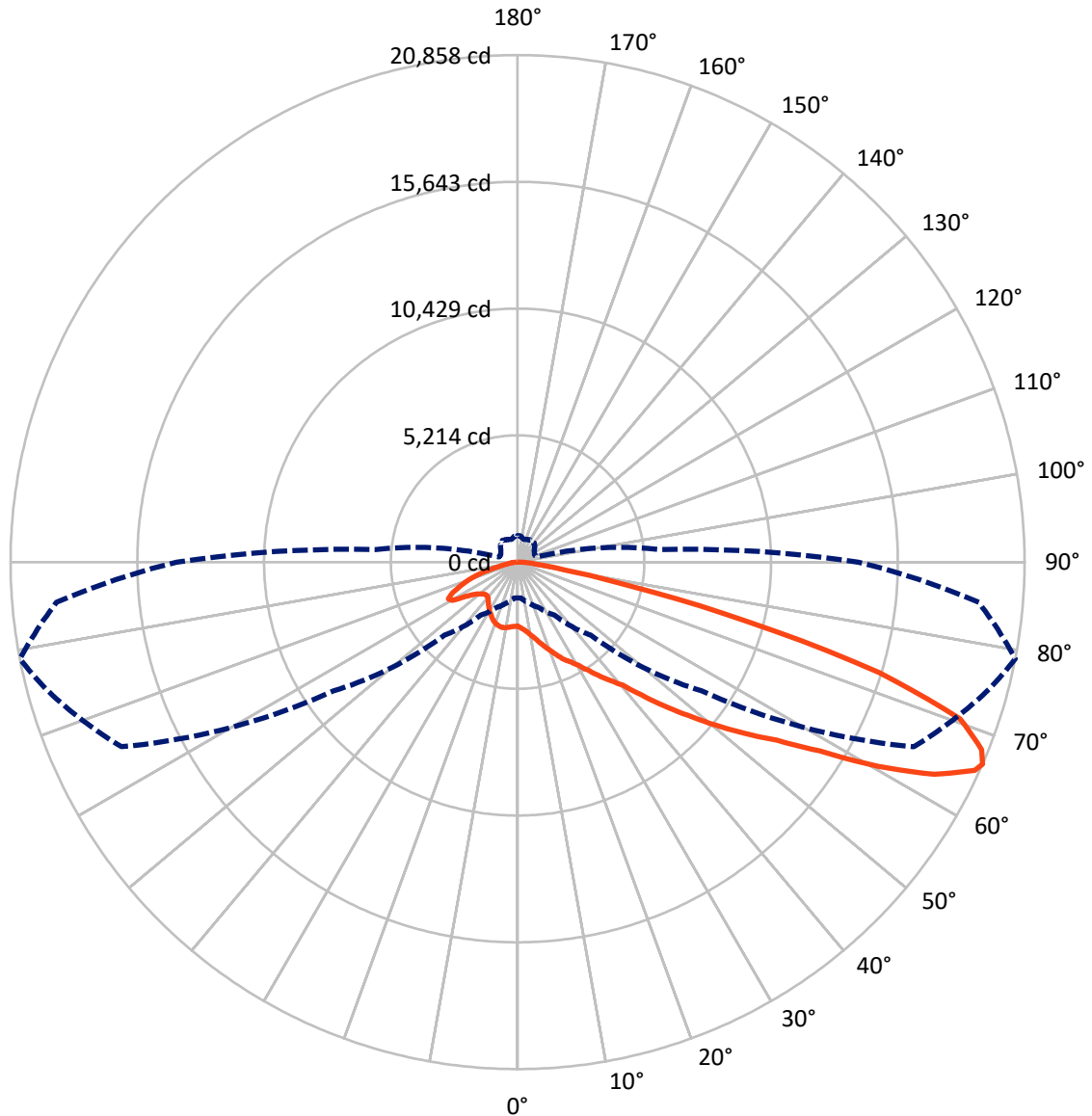
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

REPORT NUMBER: P476735
CATALOG NUMBER: IFLD-M-SA4C-827-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P476735
 CATALOG NUMBER: IFLD-M-SA4C-827-U-T2

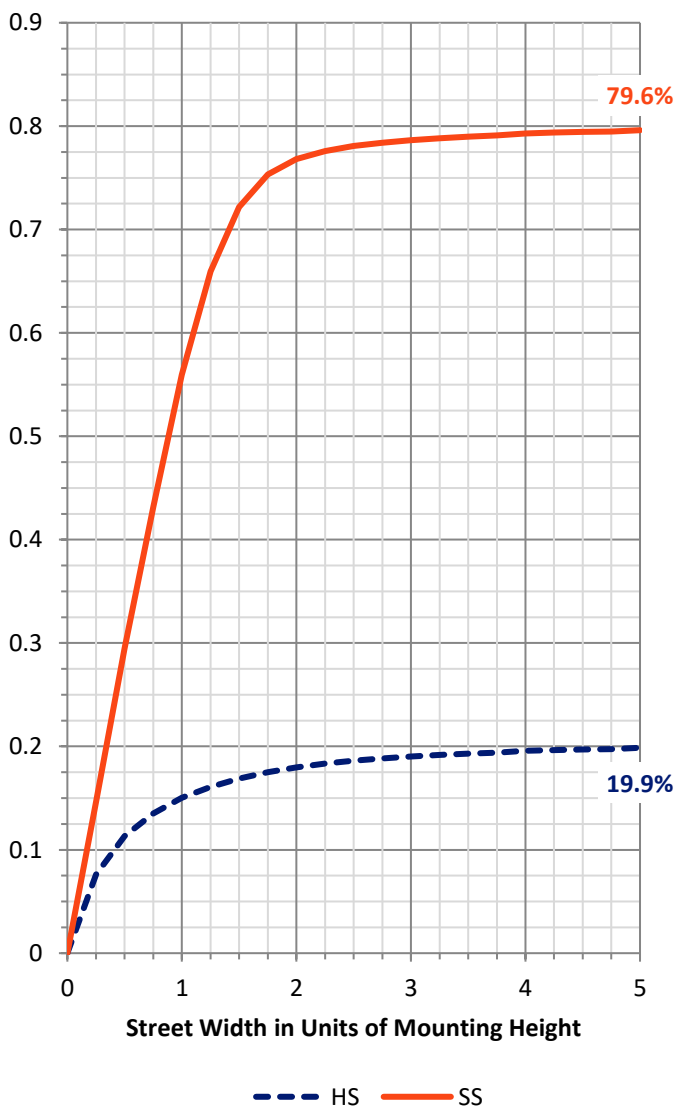
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4215.4	0.0	4215.4
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	16659.5	0.0	16659.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	20874.9	0.0	20874.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.2	1.2
10°-20°	800.4	3.8
20°-30°	1373.9	6.6
30°-40°	2122.3	10.2
40°-50°	3399.4	16.3
50°-60°	5075.6	24.3
60°-70°	5215.2	25.0
70°-80°	2311.8	11.1
80°-90°	317.2	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°	20874.9	100.0
0°-180°	20874.9	100.0

Coefficient of Utilization



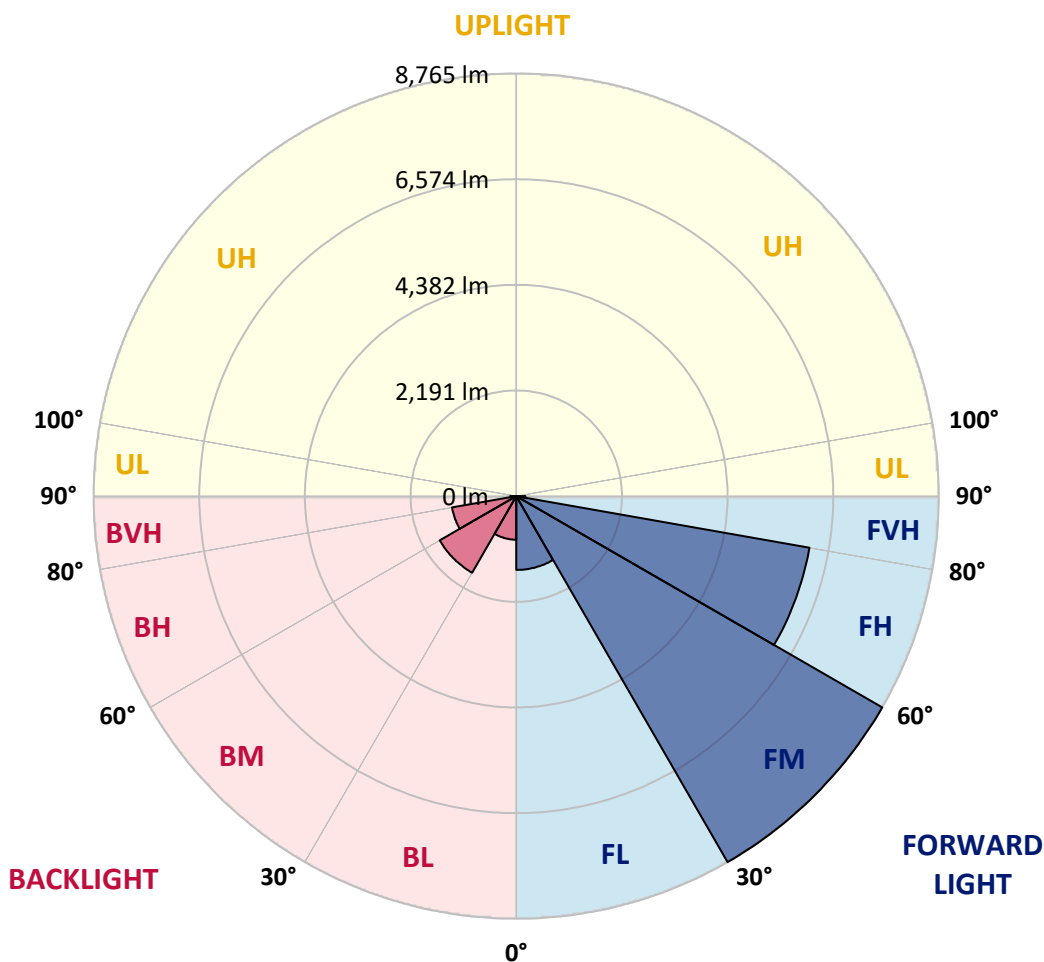
REPORT NUMBER: P476735
 CATALOG NUMBER: IFLD-M-SA4C-827-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1530.3	7.3			
FM (30°-60°)	8764.7	42.0			
FH (60°-80°)	6174.3	29.6			G3/7500
FVH (80°-90°)	190.2	0.9			G2/225
BL (0°-30°)	903.1	4.3	B2/1000		
BM (30°-60°)	1832.7	8.8	B2/2500		
BH (60°-80°)	1352.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	127.0	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-G3

Type II Short





REPORT NUMBER: P476735

CATALOG NUMBER: IFLD-M-SA4C-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9
2.5°	2803.5	2805.8	2805.8	2796.6	2798.9	2805.8	2780.6	2725.5	2725.5	2716.3	2700.2
5°	2975.7	2964.3	2948.2	2950.5	2941.3	2941.3	2913.7	2860.9	2815.0	2796.6	2748.4
7.5°	2998.7	3010.2	3007.9	3035.4	3049.2	3049.2	3063.0	3019.4	2950.5	2906.9	2858.6
10°	3044.6	3014.8	3012.5	3076.8	3097.4	3145.7	3200.8	3177.8	3120.4	3058.4	2994.1
12.5°	3072.2	3090.5	3090.5	3122.7	3170.9	3242.1	3338.5	3382.2	3292.6	3228.3	3129.6
15°	3113.5	3088.3	3161.7	3189.3	3281.1	3331.6	3469.4	3581.9	3522.2	3444.1	3288.0
17.5°	3131.9	3115.8	3157.1	3207.7	3363.8	3439.6	3607.2	3763.3	3712.8	3662.3	3501.6
20°	3226.0	3223.7	3242.1	3283.4	3395.9	3545.2	3754.1	3970.0	3988.3	3896.5	3678.4
22.5°	3455.6	3425.8	3425.8	3409.7	3457.9	3611.8	3894.2	4192.7	4275.3	4167.4	3878.1
25°	3666.9	3708.2	3682.9	3609.5	3591.1	3671.5	3995.2	4429.2	4539.4	4438.4	4149.1
27.5°	3937.8	3951.6	3995.2	3896.5	3770.2	3795.5	4105.4	4562.3	4789.7	4654.2	4302.9
30°	4328.1	4302.9	4293.7	4183.5	4018.2	3983.7	4231.7	4757.5	5118.0	4927.4	4484.3
32.5°	4592.2	4654.2	4651.9	4500.4	4300.6	4224.8	4387.8	4941.2	5469.3	5292.5	4819.5
35°	5115.7	5180.0	5129.5	4906.8	4672.6	4521.0	4612.9	5180.0	5871.1	5733.4	5104.2
37.5°	5783.9	5935.4	5827.5	5416.5	5085.9	4920.5	4925.1	5439.5	6282.1	6169.6	5409.6
40°	6245.4	6449.7	6300.5	5914.8	5563.4	5407.3	5345.3	5747.1	6773.5	6654.1	5887.2
42.5°	6817.1	6987.0	6909.0	6527.8	6116.8	5983.6	5859.6	6261.5	7524.3	7469.2	6500.3
45°	7441.7	7522.0	7496.8	7255.7	6798.7	6752.8	6479.6	6938.8	8408.3	8431.3	7267.2
47.5°	8022.6	8066.2	8114.4	7939.9	7655.2	7694.2	7193.7	7664.4	9267.1	9418.6	8121.3
50°	8171.8	8321.1	8433.6	8550.7	8612.7	8876.7	7981.2	8555.3	10254.4	10548.3	9071.9
52.5°	8020.3	8008.8	8350.9	8718.3	9338.2	9891.6	9053.5	9662.0	11126.9	11707.8	9942.1
55°	7331.4	7308.5	7859.5	8346.3	9556.4	10456.4	10585.0	11136.1	12180.8	12936.2	11120.0
57.5°	6126.0	5983.6	6585.2	7384.3	9083.4	10518.4	12123.4	13324.3	13801.9	14662.9	12917.9
60°	4116.9	4057.2	4633.5	5586.4	7375.1	9639.0	13044.1	16063.5	16086.5	17055.4	15707.6
62.5°	2534.9	2546.4	2916.0	3630.1	5163.9	7641.4	12646.9	18251.7	18256.3	19227.5	18003.7
65°	1657.8	1664.7	1963.2	2358.1	3226.0	5182.3	10458.7	18423.9	19764.8	20667.2	19055.3
66°	1476.4	1478.7	1735.9	2057.3	2672.7	4240.9	9237.2	17976.2	20104.6	20857.8	19041.5
67.5°	1244.5	1274.3	1481.0	1729.0	2084.9	3046.9	7329.1	16681.2	19930.1	20591.4	18609.9
70°	973.5	989.6	1152.6	1405.2	1563.6	1763.4	4355.7	13597.5	18242.5	19314.8	17039.3
72.5°	780.7	794.5	918.4	1141.2	1269.7	1161.8	2371.9	9866.3	14410.3	15553.8	13402.3
75°	659.0	661.3	721.0	897.8	1044.7	872.5	1262.9	6332.6	9246.4	9779.1	8210.8
77.5°	532.7	541.9	583.2	684.2	840.4	686.5	753.1	3547.5	4642.7	4681.7	3795.5
80°	434.0	438.6	463.8	498.3	640.6	507.4	509.7	1731.3	1990.7	1944.8	1543.0
82.5°	342.1	346.7	376.6	369.7	470.7	362.8	316.9	833.5	916.1	897.8	709.5
85°	192.9	192.9	296.2	296.2	298.5	229.6	192.9	392.6	484.5	452.3	332.9
87.5°	62.0	64.3	89.5	94.1	149.2	103.3	94.1	147.0	229.6	202.1	119.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P476735
 CATALOG NUMBER: IFLD-M-SA4C-827-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9	2635.9
2.5°	2691.0	2654.3	2638.2	2585.4	2571.6	2537.2	2521.1	2500.5	2493.6	2463.7	2491.3
5°	2711.7	2700.2	2635.9	2569.3	2518.8	2495.9	2461.4	2415.5	2410.9	2369.6	2365.0
7.5°	2798.9	2759.9	2647.4	2576.2	2475.2	2417.8	2342.0	2319.1	2289.2	2275.4	2305.3
10°	2934.4	2835.7	2668.1	2489.0	2365.0	2296.1	2241.0	2224.9	2227.2	2218.0	2204.3
12.5°	3030.9	2936.7	2633.6	2415.5	2254.8	2188.2	2183.6	2199.7	2224.9	2213.4	2229.5
15°	3168.6	2991.8	2608.4	2293.8	2165.2	2146.9	2144.6	2192.8	2190.5	2190.5	2188.2
17.5°	3297.2	3046.9	2516.5	2188.2	2071.1	2084.9	2100.9	2098.6	2121.6	2130.8	2146.9
20°	3460.2	3111.2	2387.9	2082.6	1999.9	1995.3	1993.0	1995.3	2018.3	2032.0	2020.6
22.5°	3602.6	3125.0	2280.0	1981.5	1914.9	1896.6	1866.7	1896.6	1885.1	1889.7	1903.5
25°	3726.6	3127.3	2126.2	1905.8	1830.0	1788.7	1765.7	1763.4	1742.7	1740.4	1740.4
27.5°	3829.9	3049.2	1990.7	1800.1	1729.0	1689.9	1687.6	1662.4	1609.6	1575.1	1579.7
30°	3910.3	2989.5	1896.6	1708.3	1639.4	1632.5	1611.9	1554.5	1485.6	1442.0	1442.0
32.5°	4052.6	2870.1	1768.0	1614.2	1579.7	1570.5	1522.3	1471.8	1407.5	1366.2	1359.3
35°	4158.2	2759.9	1683.0	1533.8	1517.7	1499.4	1458.0	1402.9	1384.5	1375.4	1382.3
37.5°	4277.6	2635.9	1579.7	1464.9	1481.0	1446.5	1398.3	1373.1	1437.4	1421.3	1428.2
40°	4468.2	2548.7	1478.7	1423.6	1439.7	1400.6	1338.6	1329.4	1409.8	1352.4	1338.6
42.5°	4817.2	2546.4	1416.7	1361.6	1373.1	1343.2	1288.1	1283.5	1315.7	1246.8	1226.1
45°	5251.2	2626.7	1370.8	1315.7	1306.5	1301.9	1283.5	1262.9	1235.3	1145.8	1122.8
47.5°	5770.1	2757.6	1361.6	1246.8	1258.3	1297.3	1274.3	1221.5	1150.3	1092.9	1081.5
50°	6399.2	3028.6	1338.6	1196.3	1216.9	1278.9	1260.6	1187.1	1122.8	1086.1	1079.2
52.5°	7094.9	3370.7	1308.8	1118.2	1164.1	1262.9	1272.0	1203.2	1109.0	1076.9	1072.3
55°	7914.7	3875.8	1274.3	1033.2	1102.1	1246.8	1272.0	1157.2	1090.6	1090.6	1086.1
57.5°	9533.4	4785.1	1203.2	955.2	1047.0	1216.9	1235.3	1159.5	1092.9	1092.9	1083.8
60°	11907.6	6204.1	1067.7	895.5	994.2	1175.6	1207.7	1125.1	1067.7	1081.5	1079.2
62.5°	13765.1	6635.7	952.9	838.1	941.4	1099.8	1171.0	1088.4	1037.8	1088.4	1092.9
65°	14162.3	6199.5	835.8	776.1	867.9	1026.4	1118.2	1035.5	994.2	1092.9	1097.5
66°	14020.0	5859.6	794.5	757.7	835.8	989.6	1086.1	1017.2	971.2	1088.4	1090.6
67.5°	13386.3	5349.9	748.5	718.7	792.2	936.8	1049.3	991.9	934.5	1074.6	1053.9
70°	12008.6	4537.1	670.5	649.8	730.2	849.6	964.4	927.6	877.1	989.6	952.9
72.5°	9248.7	3625.5	587.8	590.1	659.0	760.0	879.4	854.1	810.5	867.9	845.0
75°	5632.3	2316.8	512.0	516.6	574.0	675.1	799.0	780.7	727.9	760.0	748.5
77.5°	2495.9	1148.0	431.7	440.9	486.8	594.7	695.7	665.9	610.8	617.7	613.1
80°	969.0	544.2	351.3	362.8	392.6	475.3	576.3	548.8	500.5	491.4	486.8
82.5°	466.1	303.1	270.9	275.5	287.0	378.9	496.0	461.5	397.2	355.9	355.9
85°	234.2	188.3	190.6	174.5	190.6	257.2	335.2	280.1	231.9	206.6	211.2
87.5°	94.1	94.1	94.1	80.4	85.0	121.7	156.1	105.6	96.4	57.4	57.4
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)