

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: P476774

Luminaire Tested: **IFLD-M-SA4C-830-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476774
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

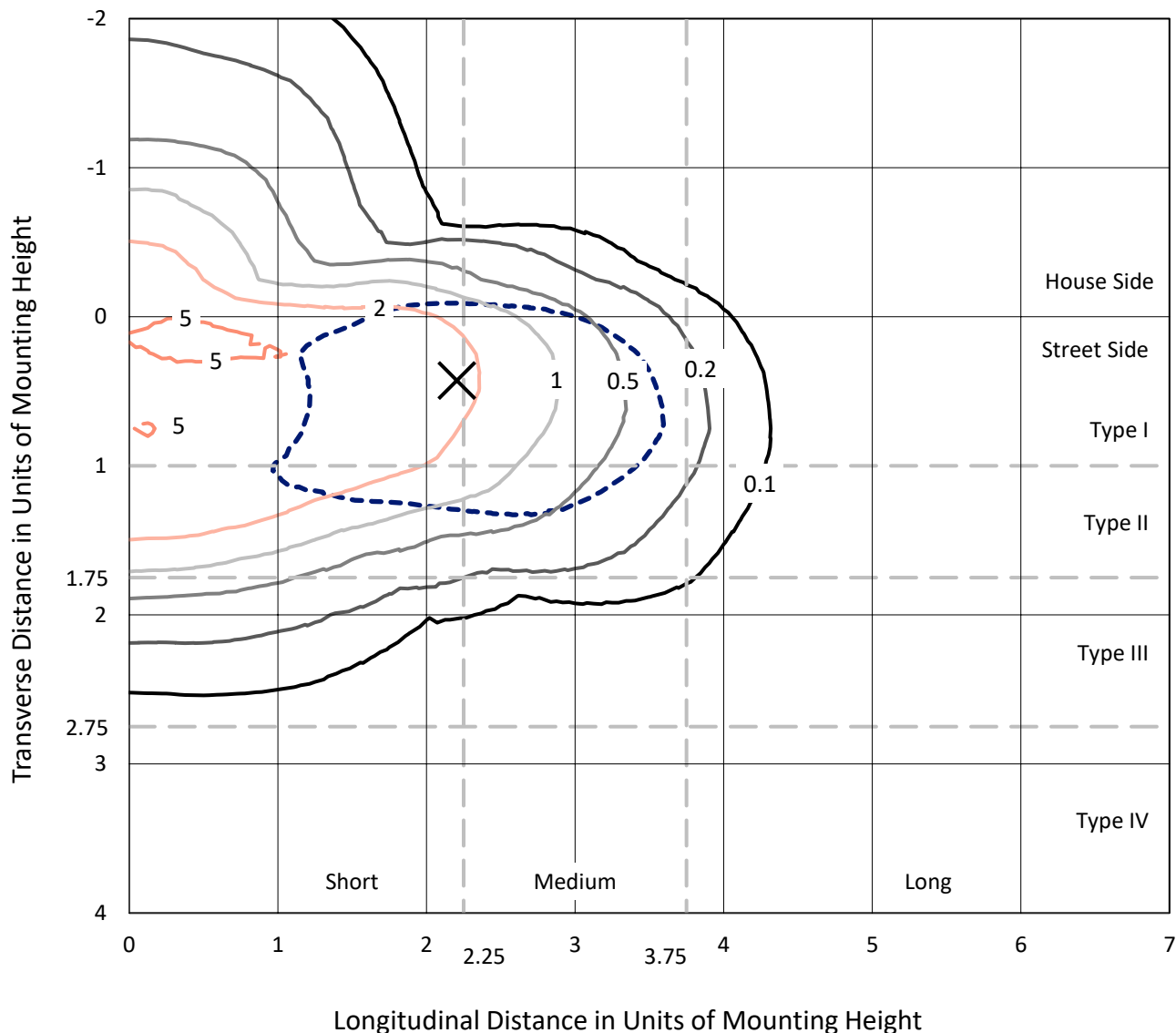
Lumens per Lamp: N/A
Luminaire Lumens: 22564.6 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

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Iso-Footcandle Lines of Horizontal Illumination

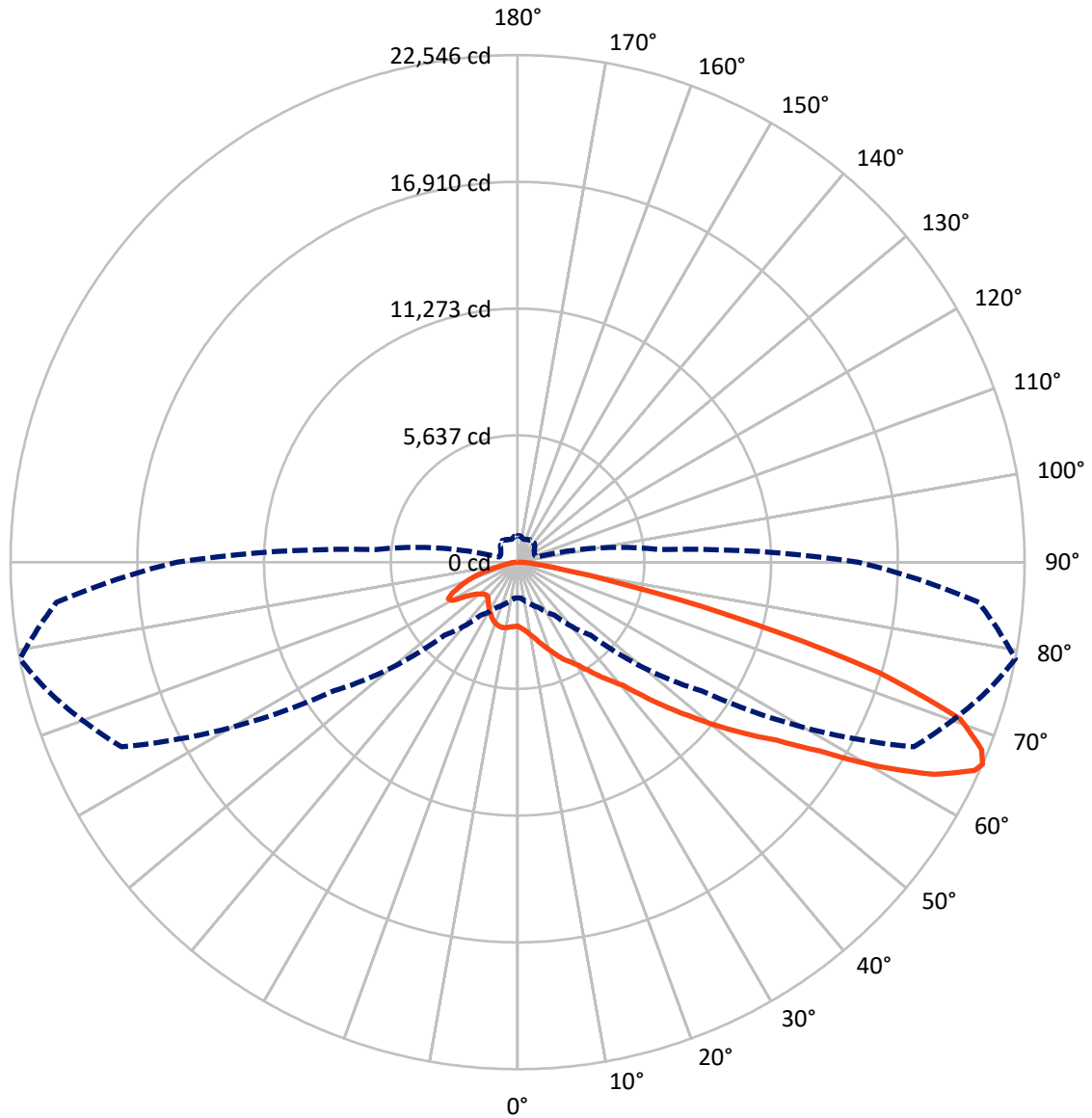
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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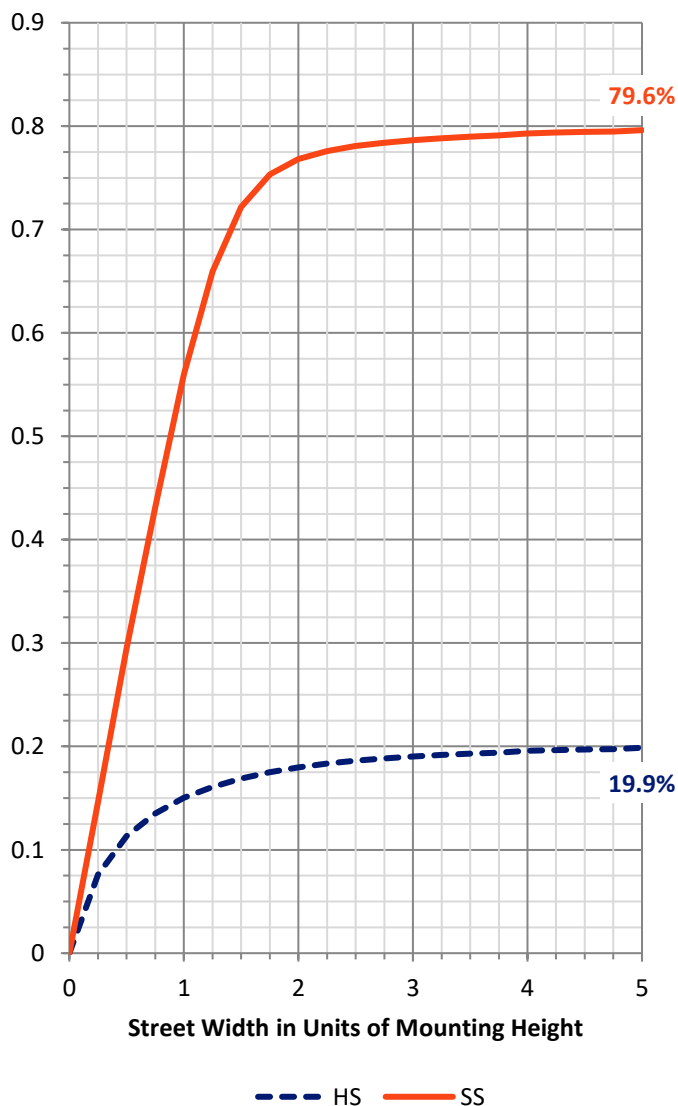
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4556.6	0.0	4556.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	18008.0	0.0	18008.0
	% Fixture	79.8	0.0	79.8
Total	Lumens	22564.6	0.0	22564.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.2	1.2
10°-20°	865.1	3.8
20°-30°	1485.1	6.6
30°-40°	2294.1	10.2
40°-50°	3674.6	16.3
50°-60°	5486.4	24.3
60°-70°	5637.3	25.0
70°-80°	2498.9	11.1
80°-90°	342.9	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°	22564.6	100.0
0°-180°	22564.6	100.0

Coefficient of Utilization



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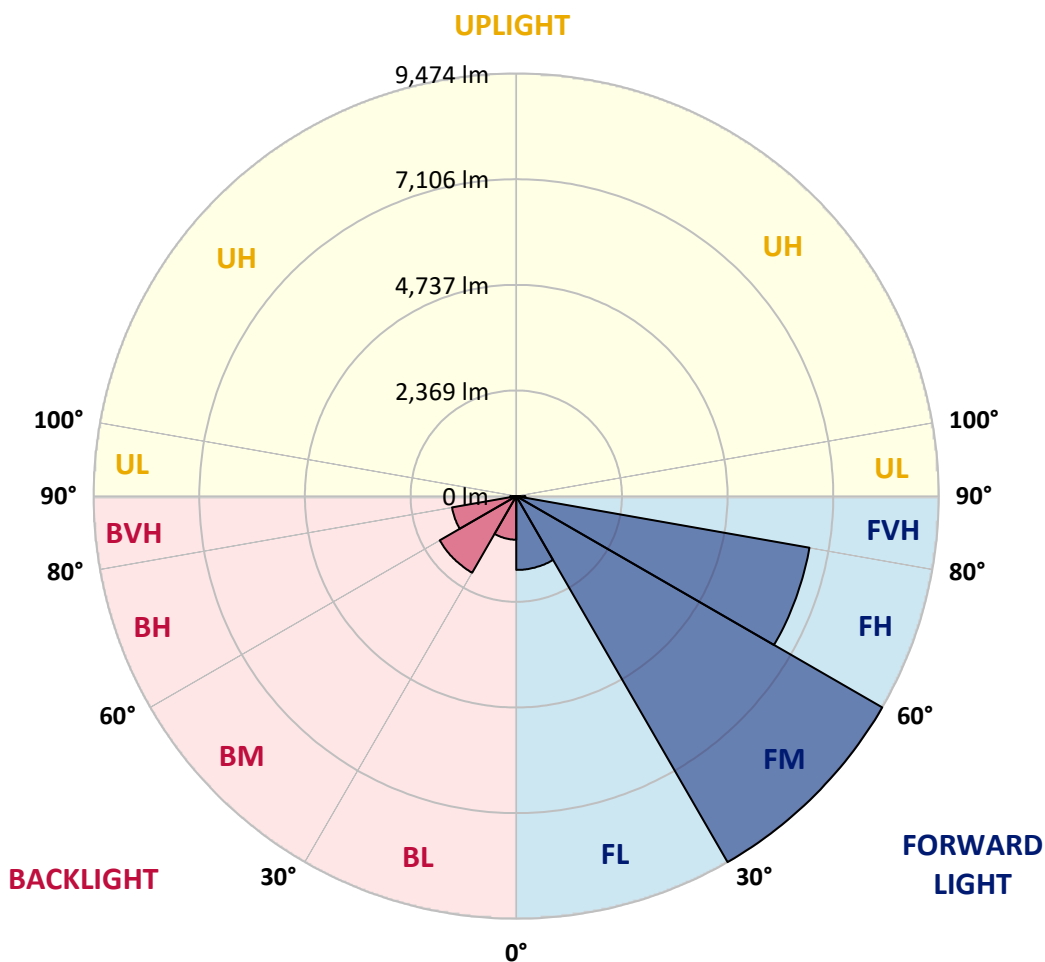
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1654.1	7.3			
FM (30°-60°)	9474.1	42.0			
FH (60°-80°)	6674.1	29.6			G3/7500
FVH (80°-90°)	205.6	0.9			G2/225
BL (0°-30°)	976.2	4.3	B2/1000		
BM (30°-60°)	1981.0	8.8	B2/2500		
BH (60°-80°)	1462.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	137.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3
2.5°	3030.5	3032.9	3032.9	3023.0	3025.5	3032.9	3005.6	2946.1	2946.1	2936.1	2918.8
5°	3216.6	3204.2	3186.8	3189.3	3179.4	3179.4	3149.6	3092.5	3042.9	3023.0	2970.9
7.5°	3241.4	3253.8	3251.4	3281.1	3296.0	3296.0	3310.9	3263.8	3189.3	3142.1	3090.0
10°	3291.1	3258.8	3256.3	3325.8	3348.1	3400.3	3459.8	3435.0	3373.0	3306.0	3236.5
12.5°	3320.8	3340.7	3340.7	3375.4	3427.6	3504.5	3608.8	3655.9	3559.1	3489.6	3382.9
15°	3365.5	3338.2	3417.6	3447.4	3546.7	3601.3	3750.2	3871.8	3807.3	3722.9	3554.1
17.5°	3385.4	3368.0	3412.7	3467.3	3636.1	3718.0	3899.1	4067.9	4013.3	3958.7	3785.0
20°	3487.1	3484.7	3504.5	3549.2	3670.8	3832.1	4058.0	4291.3	4311.1	4211.9	3976.1
22.5°	3735.3	3703.1	3703.1	3685.7	3737.8	3904.1	4209.4	4532.0	4621.4	4504.7	4192.0
25°	3963.7	4008.3	3981.0	3901.6	3881.8	3968.6	4318.6	4787.7	4906.8	4797.6	4484.9
27.5°	4256.5	4271.4	4318.6	4211.9	4075.4	4102.7	4437.7	4931.6	5177.3	5030.9	4651.2
30°	4678.5	4651.2	4641.2	4522.1	4343.4	4306.2	4574.2	5142.6	5532.3	5326.3	4847.2
32.5°	4963.9	5030.9	5028.4	4864.6	4648.7	4566.8	4743.0	5341.2	5912.0	5720.9	5209.6
35°	5529.8	5599.3	5544.7	5303.9	5050.8	4887.0	4986.2	5599.3	6346.3	6197.4	5517.4
37.5°	6252.0	6415.8	6299.2	5854.9	5497.5	5318.8	5323.8	5879.7	6790.6	6669.0	5847.5
40°	6750.9	6971.8	6810.5	6393.5	6013.8	5845.0	5778.0	6212.3	7321.7	7192.7	6363.7
42.5°	7368.9	7552.6	7468.2	7056.2	6611.9	6468.0	6333.9	6768.3	8133.3	8073.8	7026.4
45°	8044.0	8130.9	8103.6	7843.0	7349.0	7299.4	7004.1	7500.4	9088.9	9113.7	7855.4
47.5°	8671.9	8719.1	8771.2	8582.6	8274.8	8317.0	7775.9	8284.7	10017.1	10181.0	8778.7
50°	8833.3	8994.6	9116.2	9242.8	9309.8	9595.2	8627.3	9247.7	11084.4	11402.1	9806.2
52.5°	8669.4	8657.0	9026.8	9424.0	10094.1	10692.2	9786.3	10444.0	12027.5	12655.5	10746.8
55°	7924.9	7900.0	8495.7	9021.9	10329.9	11302.8	11441.8	12037.4	13166.7	13983.3	12020.1
57.5°	6621.8	6468.0	7118.2	7981.9	9818.6	11369.8	13104.7	14402.7	14919.0	15849.7	13963.4
60°	4450.1	4385.6	5008.6	6038.6	7972.0	10419.2	14099.9	17363.7	17388.5	18435.9	16979.0
62.5°	2740.1	2752.5	3152.1	3924.0	5581.9	8259.9	13670.6	19729.0	19734.0	20783.8	19461.0
65°	1792.0	1799.4	2122.1	2549.0	3487.1	5601.8	11305.3	19915.2	21364.6	22340.0	20597.7
66°	1595.9	1598.4	1876.4	2223.8	2889.0	4584.2	9984.9	19431.2	21731.9	22546.0	20582.8
67.5°	1345.2	1377.5	1600.9	1868.9	2253.6	3293.5	7922.4	18031.4	21543.3	22258.1	20116.2
70°	1052.3	1069.7	1245.9	1519.0	1690.2	1906.1	4708.3	14698.1	19719.1	20878.1	18418.5
72.5°	843.9	858.8	992.8	1233.5	1372.5	1255.9	2563.9	10664.9	15576.7	16812.7	14487.1
75°	712.3	714.8	779.3	970.4	1129.3	943.1	1365.1	6845.2	9994.8	10570.6	8875.4
77.5°	575.8	585.7	630.4	739.6	908.4	742.1	814.1	3834.6	5018.5	5060.7	4102.7
80°	469.1	474.1	501.4	538.6	692.5	548.5	551.0	1871.4	2151.8	2102.2	1667.9
82.5°	369.8	374.8	407.0	399.6	508.8	392.1	342.5	900.9	990.3	970.4	766.9
85°	208.5	208.5	320.2	320.2	322.7	248.2	208.5	424.4	523.7	488.9	359.9
87.5°	67.0	69.5	96.8	101.8	161.3	111.7	101.8	158.8	248.2	218.4	129.1
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°	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3	2849.3
2.5°	2908.8	2869.1	2851.8	2794.7	2779.8	2742.6	2725.2	2702.8	2695.4	2663.1	2692.9
5°	2931.2	2918.8	2849.3	2777.3	2722.7	2697.9	2660.6	2611.0	2606.0	2561.4	2556.4
7.5°	3025.5	2983.3	2861.7	2784.7	2675.5	2613.5	2531.6	2506.8	2474.5	2459.6	2491.9
10°	3171.9	3065.2	2884.0	2690.4	2556.4	2481.9	2422.4	2405.0	2407.5	2397.6	2382.7
12.5°	3276.2	3174.4	2846.8	2611.0	2437.3	2365.3	2360.3	2377.7	2405.0	2392.6	2410.0
15°	3425.1	3234.0	2819.5	2479.5	2340.5	2320.6	2318.1	2370.3	2367.8	2367.8	2365.3
17.5°	3564.1	3293.5	2720.2	2365.3	2238.7	2253.6	2271.0	2268.5	2293.3	2303.2	2320.6
20°	3740.3	3363.0	2581.2	2251.1	2161.8	2156.8	2154.3	2156.8	2181.6	2196.5	2184.1
22.5°	3894.2	3377.9	2464.6	2141.9	2069.9	2050.1	2017.8	2050.1	2037.7	2042.6	2057.5
25°	4028.2	3380.4	2298.3	2060.0	1978.1	1933.4	1908.6	1906.1	1883.8	1881.3	1881.3
27.5°	4139.9	3296.0	2151.8	1945.8	1868.9	1826.7	1824.2	1796.9	1739.8	1702.6	1707.6
30°	4226.8	3231.5	2050.1	1846.6	1772.1	1764.7	1742.3	1680.3	1605.8	1558.7	1558.7
32.5°	4380.6	3102.4	1911.1	1744.8	1707.6	1697.7	1645.5	1590.9	1521.4	1476.8	1469.3
35°	4494.8	2983.3	1819.3	1657.9	1640.6	1620.7	1576.0	1516.5	1496.6	1486.7	1494.1
37.5°	4623.9	2849.3	1707.6	1583.5	1600.9	1563.6	1511.5	1484.2	1553.7	1536.3	1543.8
40°	4829.9	2755.0	1598.4	1538.8	1556.2	1514.0	1447.0	1437.0	1523.9	1461.9	1447.0
42.5°	5207.1	2752.5	1531.4	1471.8	1484.2	1451.9	1392.4	1387.4	1422.2	1347.7	1325.4
45°	5676.2	2839.3	1481.7	1422.2	1412.2	1407.3	1387.4	1365.1	1335.3	1238.5	1213.7
47.5°	6237.1	2980.8	1471.8	1347.7	1360.1	1402.3	1377.5	1320.4	1243.5	1181.4	1169.0
50°	6917.2	3273.7	1447.0	1293.1	1315.4	1382.4	1362.6	1283.2	1213.7	1174.0	1166.5
52.5°	7669.2	3643.5	1414.7	1208.7	1258.3	1365.1	1375.0	1300.5	1198.8	1164.0	1159.1
55°	8555.3	4189.5	1377.5	1116.9	1191.3	1347.7	1375.0	1250.9	1178.9	1178.9	1174.0
57.5°	10305.0	5172.4	1300.5	1032.5	1131.8	1315.4	1335.3	1253.4	1181.4	1181.4	1171.5
60°	12871.4	6706.2	1154.1	968.0	1074.7	1270.8	1305.5	1216.2	1154.1	1169.0	1166.5
62.5°	14879.3	7172.8	1030.0	905.9	1017.6	1188.9	1265.8	1176.4	1121.8	1176.4	1181.4
65°	15308.7	6701.3	903.4	838.9	938.2	1109.4	1208.7	1119.4	1074.7	1181.4	1186.4
66°	15154.8	6333.9	858.8	819.0	903.4	1069.7	1174.0	1099.5	1049.9	1176.4	1178.9
67.5°	14469.8	5782.9	809.1	776.8	856.3	1012.6	1134.3	1072.2	1010.2	1161.6	1139.2
70°	12980.6	4904.3	724.7	702.4	789.3	918.3	1042.4	1002.7	948.1	1069.7	1030.0
72.5°	9997.3	3919.0	635.4	637.9	712.3	821.5	950.6	923.3	876.1	938.2	913.4
75°	6088.2	2504.3	553.5	558.4	620.5	729.7	863.7	843.9	786.8	821.5	809.1
77.5°	2697.9	1241.0	466.6	476.5	526.2	642.8	752.0	719.8	660.2	667.6	662.7
80°	1047.4	588.2	379.7	392.1	424.4	513.8	623.0	593.2	541.1	531.1	526.2
82.5°	503.8	327.6	292.9	297.8	310.2	409.5	536.1	498.9	429.4	384.7	384.7
85°	253.2	203.5	206.0	188.6	206.0	278.0	362.4	302.8	250.7	223.4	228.3
87.5°	101.8	101.8	101.8	86.9	91.8	131.5	168.8	114.2	104.2	62.0	62.0
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)