

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: P476578

Luminaire Tested: **IFLD-M-SA4B-735-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476578
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-735-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

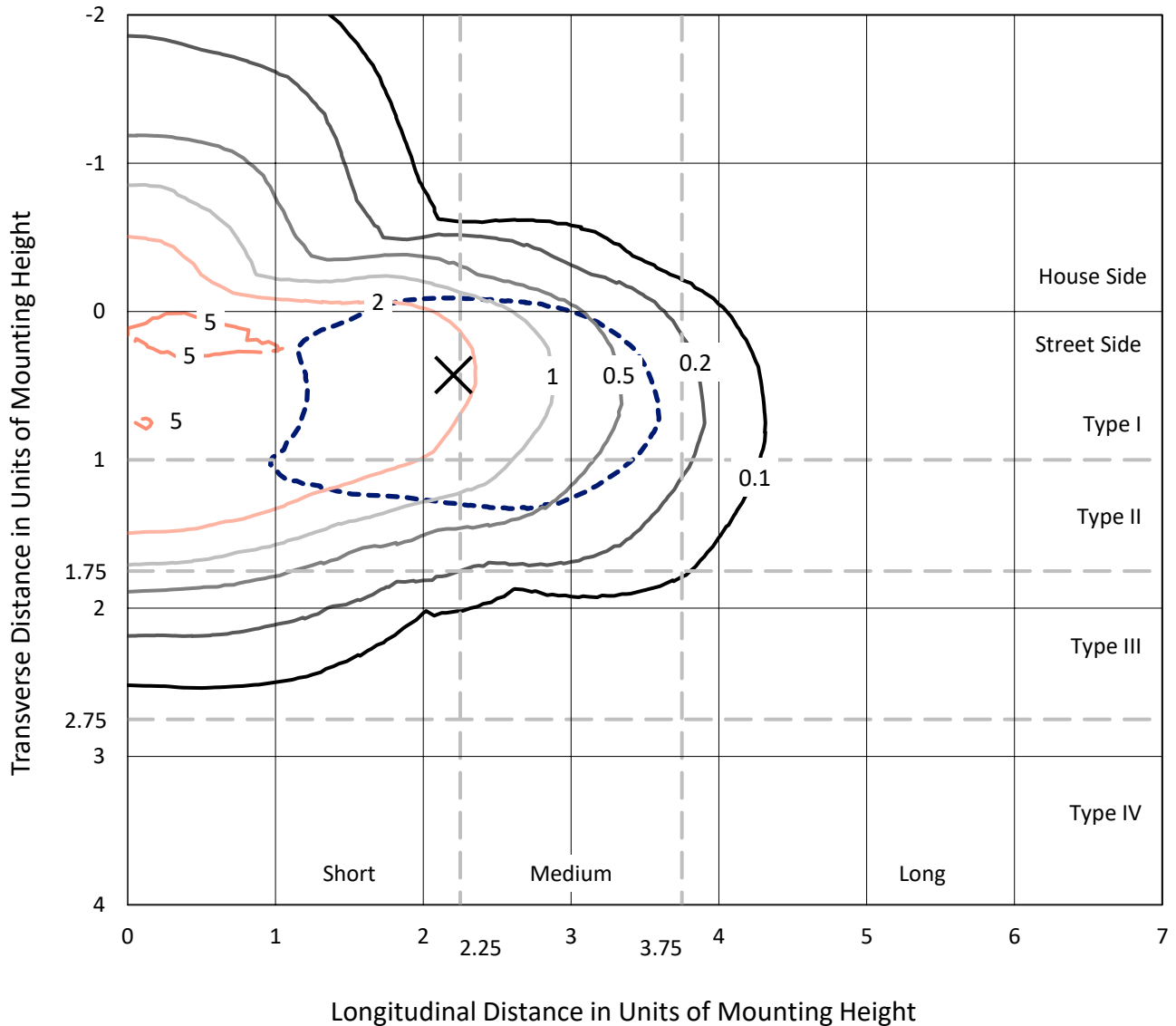
Lumens per Lamp: N/A
Luminaire Lumens: 22499.4 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 166.1
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

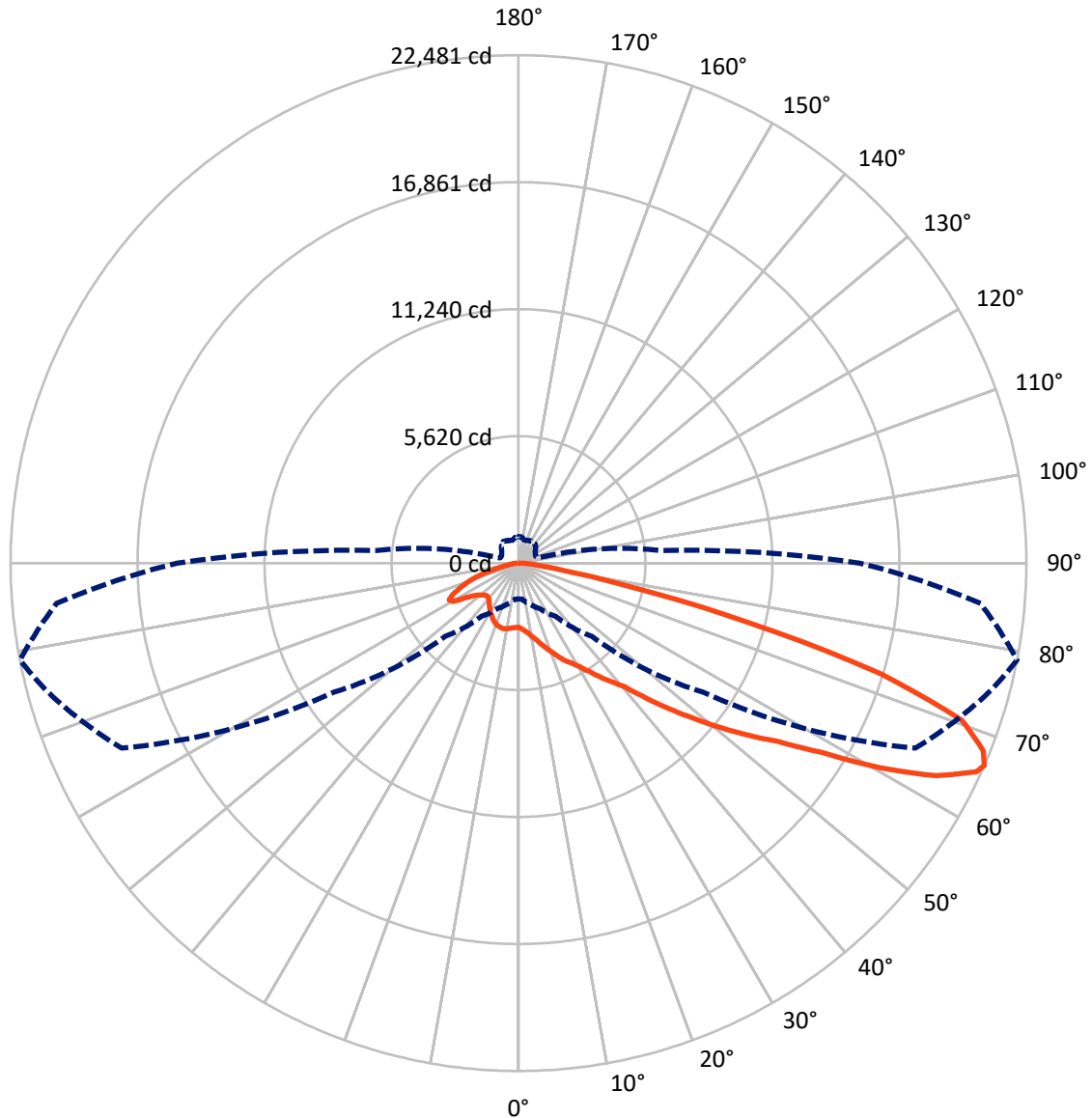
× Max cd
 - - - 1/2 Max cd



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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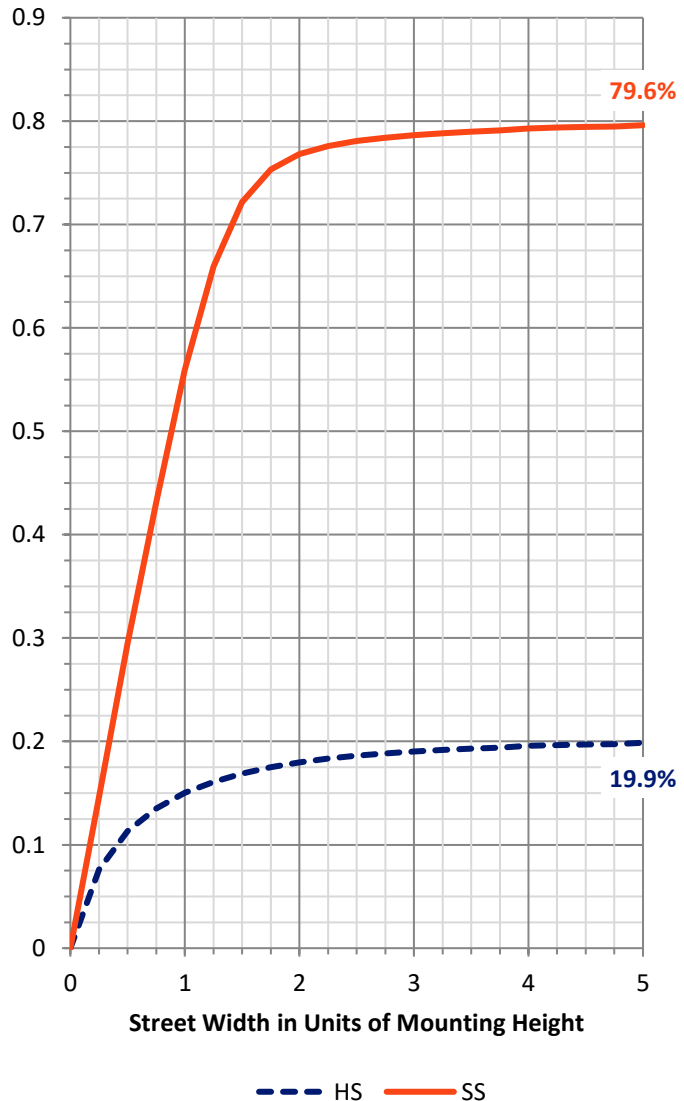
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4543.4	0.0	4543.4
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	17955.9	0.0	17955.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	22499.4	0.0	22499.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.4	1.2
10°-20°	862.6	3.8
20°-30°	1480.8	6.6
30°-40°	2287.5	10.2
40°-50°	3664.0	16.3
50°-60°	5470.6	24.3
60°-70°	5621.0	25.0
70°-80°	2491.7	11.1
80°-90°	341.9	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°	22499.4	100.0
0°-180°	22499.4	100.0

Coefficient of Utilization



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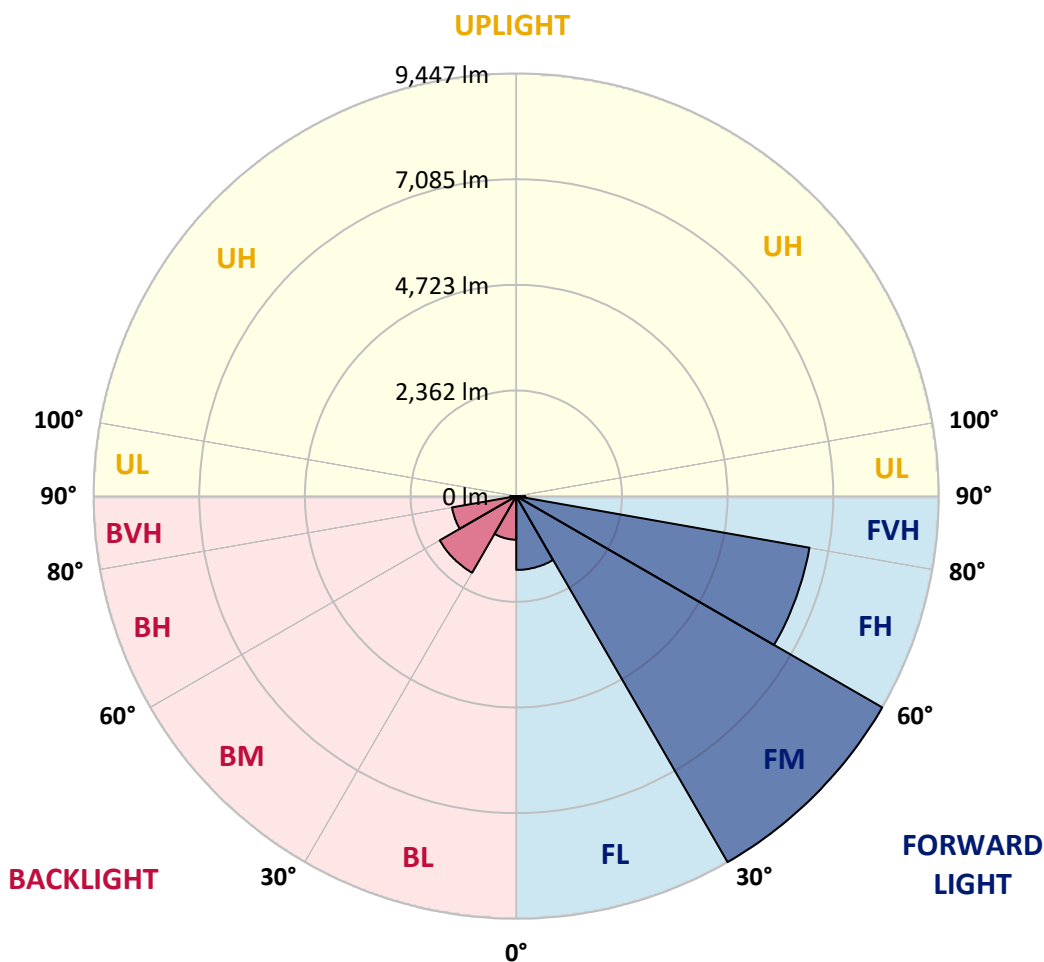
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1649.3	7.3			
FM (30°-60°)	9446.7	42.0			
FH (60°-80°)	6654.8	29.6			G3/7500
FVH (80°-90°)	205.0	0.9			G2/225
BL (0°-30°)	973.4	4.3	B2/1000		
BM (30°-60°)	1975.3	8.8	B2/2500		
BH (60°-80°)	1457.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	136.8	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°	2841.0	2841.0	2841.0	2841.0	2841.0	2841.0	2841.0	2841.0	2841.0	2841.0	2841.0
2.5°	3021.7	3024.2	3024.2	3014.3	3016.8	3024.2	2997.0	2937.6	2937.6	2927.7	2910.3
5°	3207.3	3194.9	3177.6	3180.1	3170.2	3170.2	3140.5	3083.6	3034.1	3014.3	2962.3
7.5°	3232.1	3244.4	3242.0	3271.7	3286.5	3286.5	3301.4	3254.3	3180.1	3133.1	3081.1
10°	3281.6	3249.4	3246.9	3316.2	3338.5	3390.4	3449.8	3425.1	3363.2	3296.4	3227.1
12.5°	3311.3	3331.1	3331.1	3365.7	3417.7	3494.4	3598.3	3645.3	3548.8	3479.5	3373.1
15°	3355.8	3328.6	3407.8	3437.5	3536.5	3590.9	3739.4	3860.7	3796.3	3712.2	3543.9
17.5°	3375.6	3358.3	3402.8	3457.3	3625.5	3707.2	3887.9	4056.2	4001.7	3947.3	3774.0
20°	3477.1	3474.6	3494.4	3538.9	3660.2	3821.1	4046.3	4278.9	4298.7	4199.7	3964.6
22.5°	3724.5	3692.4	3692.4	3675.0	3727.0	3892.8	4197.2	4518.9	4608.0	4491.7	4179.9
25°	3952.2	3996.8	3969.5	3890.4	3870.6	3957.2	4306.1	4773.8	4892.6	4783.7	4471.9
27.5°	4244.2	4259.1	4306.1	4199.7	4063.6	4090.8	4424.9	4917.4	5162.4	5016.4	4637.7
30°	4665.0	4637.7	4627.8	4509.0	4330.9	4293.7	4561.0	5127.7	5516.3	5310.9	4833.2
32.5°	4949.6	5016.4	5013.9	4850.6	4635.3	4553.6	4729.3	5325.7	5894.9	5704.4	5194.6
35°	5513.8	5583.1	5528.7	5288.6	5036.2	4872.8	4971.8	5583.1	6328.0	6179.5	5501.4
37.5°	6234.0	6397.3	6281.0	5838.0	5481.6	5303.4	5308.4	5862.7	6771.0	6649.7	5830.6
40°	6731.4	6951.7	6790.8	6375.0	5996.4	5828.1	5761.3	6194.4	7300.6	7171.9	6345.3
42.5°	7347.6	7530.7	7446.6	7035.8	6592.8	6449.3	6315.6	6748.7	8109.8	8050.5	7006.1
45°	8020.8	8107.4	8080.1	7820.3	7327.8	7278.3	6983.8	7478.8	9062.6	9087.4	7832.7
47.5°	8646.9	8693.9	8745.9	8557.8	8250.9	8293.0	7753.5	8260.8	9988.2	10151.5	8753.3
50°	8807.7	8968.6	9089.9	9216.1	9282.9	9567.5	8602.3	9221.0	11052.4	11369.1	9777.8
52.5°	8644.4	8632.0	9000.8	9396.7	10064.9	10661.3	9758.0	10413.9	11992.8	12618.9	10715.8
55°	7902.0	7877.2	8471.2	8995.8	10300.0	11270.1	11408.7	12002.7	13128.7	13942.9	11985.3
57.5°	6602.7	6449.3	7097.7	7958.9	9790.2	11337.0	13066.8	14361.1	14875.9	15803.9	13923.1
60°	4437.3	4372.9	4994.1	6021.1	7949.0	10389.1	14059.2	17313.5	17338.3	18382.6	16930.0
62.5°	2732.2	2744.5	3143.0	3912.6	5565.8	8236.1	13631.1	19672.0	19677.0	20723.8	19404.7
65°	1786.8	1794.2	2115.9	2541.6	3477.1	5585.6	11272.6	19857.6	21302.9	22275.5	20538.2
66°	1591.3	1593.8	1870.9	2217.4	2880.6	4570.9	9956.0	19375.0	21669.2	22480.9	20523.3
67.5°	1341.3	1373.5	1596.2	1863.5	2247.1	3284.0	7899.5	17979.3	21481.1	22193.8	20058.1
70°	1049.3	1066.6	1242.3	1514.6	1685.3	1900.6	4694.7	14655.6	19662.1	20817.8	18365.3
72.5°	841.4	856.3	989.9	1230.0	1368.6	1252.2	2556.4	10634.1	15531.7	16764.1	14445.3
75°	710.3	712.7	777.1	967.6	1126.0	940.4	1361.1	6825.4	9965.9	10540.1	8849.8
77.5°	574.1	584.0	628.6	737.5	905.8	740.0	811.7	3823.5	5004.0	5046.1	4090.8
80°	467.7	472.7	499.9	537.0	690.5	546.9	549.4	1866.0	2145.6	2096.1	1663.1
82.5°	368.7	373.7	405.9	398.4	507.3	391.0	341.5	898.3	987.4	967.6	764.7
85°	207.9	207.9	319.2	319.2	321.7	247.5	207.9	423.2	522.2	487.5	358.8
87.5°	66.8	69.3	96.5	101.5	160.9	111.4	101.5	158.4	247.5	217.8	128.7
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°	2841.0	2841.0	2841.0	2841.0	2841.0	2841.0	2841.0	2841.0	2841.0	2841.0	2841.0
2.5°	2900.4	2860.8	2843.5	2786.6	2771.8	2734.6	2717.3	2695.0	2687.6	2655.4	2685.1
5°	2922.7	2910.3	2841.0	2769.3	2714.8	2690.1	2653.0	2603.5	2598.5	2554.0	2549.0
7.5°	3016.8	2974.7	2853.4	2776.7	2667.8	2605.9	2524.3	2499.5	2467.4	2452.5	2484.7
10°	3162.8	3056.4	2875.7	2682.7	2549.0	2474.8	2415.4	2398.1	2400.5	2390.6	2375.8
12.5°	3266.7	3165.2	2838.6	2603.5	2430.2	2358.5	2353.5	2370.8	2398.1	2385.7	2403.0
15°	3415.2	3224.6	2811.3	2472.3	2333.7	2313.9	2311.4	2363.4	2360.9	2360.9	2358.5
17.5°	3553.8	3284.0	2712.4	2358.5	2232.2	2247.1	2264.4	2261.9	2286.7	2296.6	2313.9
20°	3729.5	3353.3	2573.8	2244.6	2155.5	2150.6	2148.1	2150.6	2175.3	2190.2	2177.8
22.5°	3882.9	3368.2	2457.5	2135.7	2064.0	2044.2	2012.0	2044.2	2031.8	2036.7	2051.6
25°	4016.6	3370.6	2291.6	2054.1	1972.4	1927.9	1903.1	1900.6	1878.4	1875.9	1875.9
27.5°	4127.9	3286.5	2145.6	1940.2	1863.5	1821.4	1819.0	1791.7	1734.8	1697.7	1702.6
30°	4214.5	3222.2	2044.2	1841.2	1767.0	1759.6	1737.3	1675.4	1601.2	1554.2	1554.2
32.5°	4368.0	3093.5	1905.6	1739.8	1702.6	1692.7	1640.8	1586.3	1517.0	1472.5	1465.1
35°	4481.8	2974.7	1814.0	1653.2	1635.8	1616.0	1571.5	1512.1	1492.3	1482.4	1489.8
37.5°	4610.5	2841.0	1702.6	1578.9	1596.2	1559.1	1507.1	1479.9	1549.2	1531.9	1539.3
40°	4815.9	2747.0	1593.8	1534.4	1551.7	1509.6	1442.8	1432.9	1519.5	1457.6	1442.8
42.5°	5192.1	2744.5	1526.9	1467.5	1479.9	1447.7	1388.4	1383.4	1418.0	1343.8	1321.5
45°	5659.8	2831.1	1477.4	1418.0	1408.1	1403.2	1383.4	1361.1	1331.4	1234.9	1210.2
47.5°	6219.1	2972.2	1467.5	1343.8	1356.2	1398.2	1373.5	1316.6	1239.9	1178.0	1165.6
50°	6897.2	3264.2	1442.8	1289.4	1311.6	1378.5	1358.7	1279.5	1210.2	1170.6	1163.1
52.5°	7647.1	3633.0	1410.6	1205.2	1254.7	1361.1	1371.0	1296.8	1195.3	1160.7	1155.7
55°	8530.6	4177.4	1373.5	1113.6	1187.9	1343.8	1371.0	1247.3	1175.5	1175.5	1170.6
57.5°	10275.3	5157.4	1296.8	1029.5	1128.5	1311.6	1331.4	1249.8	1178.0	1178.0	1168.1
60°	12834.2	6686.8	1150.8	965.2	1071.6	1267.1	1301.7	1212.6	1150.8	1165.6	1163.1
62.5°	14836.3	7152.1	1027.0	903.3	1014.7	1185.4	1262.1	1173.0	1118.6	1173.0	1178.0
65°	15264.4	6681.9	900.8	836.5	935.5	1106.2	1205.2	1116.1	1071.6	1178.0	1182.9
66°	15111.0	6315.6	856.3	816.7	900.8	1066.6	1170.6	1096.3	1046.8	1173.0	1175.5
67.5°	14428.0	5766.2	806.8	774.6	853.8	1009.7	1131.0	1069.1	1007.2	1158.2	1135.9
70°	12943.1	4890.2	722.6	700.4	787.0	915.7	1039.4	999.8	945.4	1066.6	1027.0
72.5°	9968.4	3907.7	633.5	636.0	710.3	819.2	947.8	920.6	873.6	935.5	910.7
75°	6070.6	2497.1	551.9	556.8	618.7	727.6	861.2	841.4	784.5	819.2	806.8
77.5°	2690.1	1237.4	465.3	475.2	524.7	641.0	749.9	717.7	658.3	665.7	660.8
80°	1044.4	586.5	378.6	391.0	423.2	512.3	621.2	591.5	539.5	529.6	524.7
82.5°	502.4	326.7	292.0	297.0	309.3	408.3	534.6	497.4	428.1	383.6	383.6
85°	252.4	202.9	205.4	188.1	205.4	277.2	361.3	301.9	250.0	222.7	227.7
87.5°	101.5	101.5	101.5	86.6	91.6	131.2	168.3	113.8	103.9	61.9	61.9
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)