

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: P476559

Luminaire Tested: **IFLD-S-SA3C-735-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476559
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-735-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

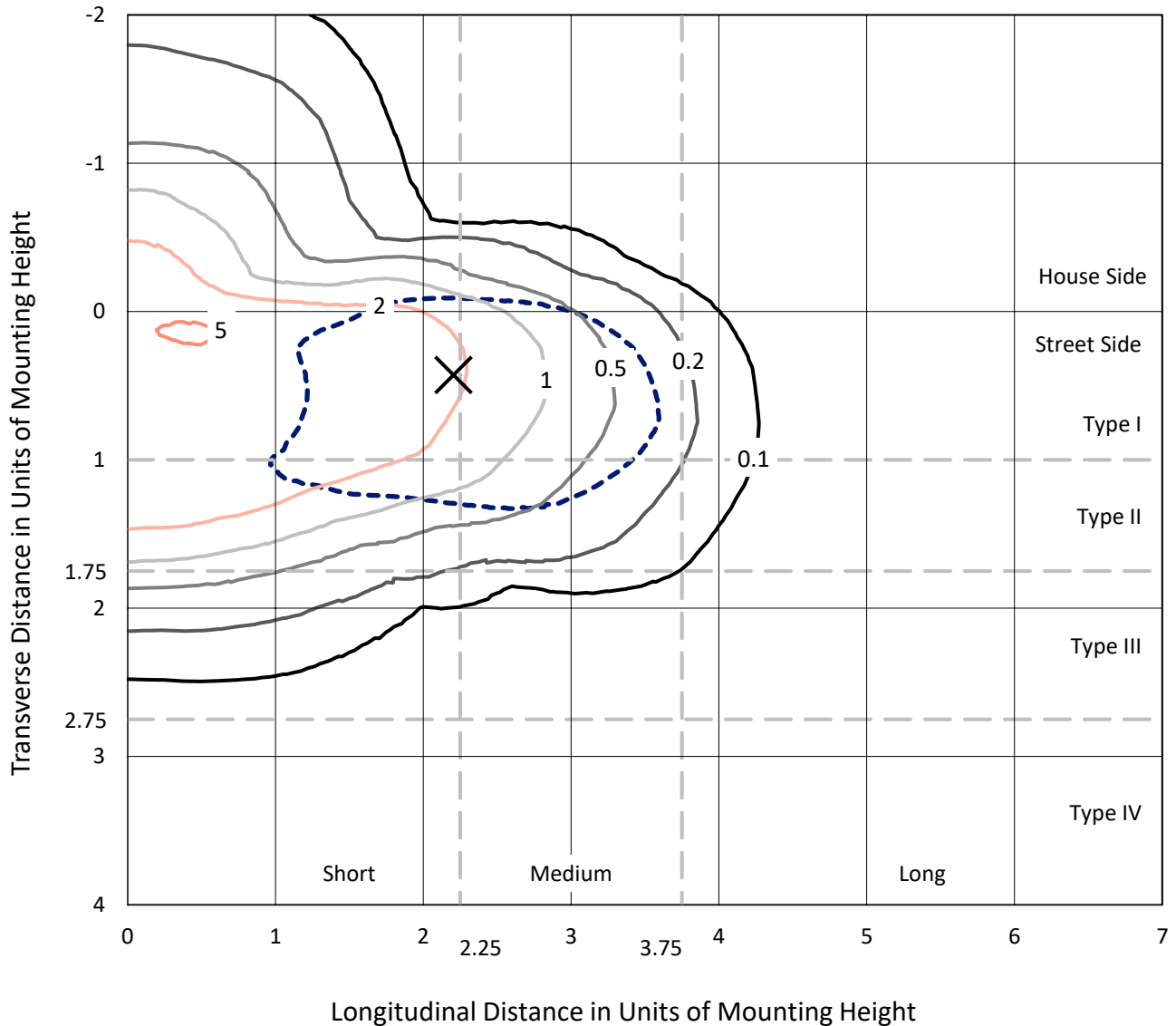
Lumens per Lamp: N/A
Luminaire Lumens: 20866.6 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.8
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

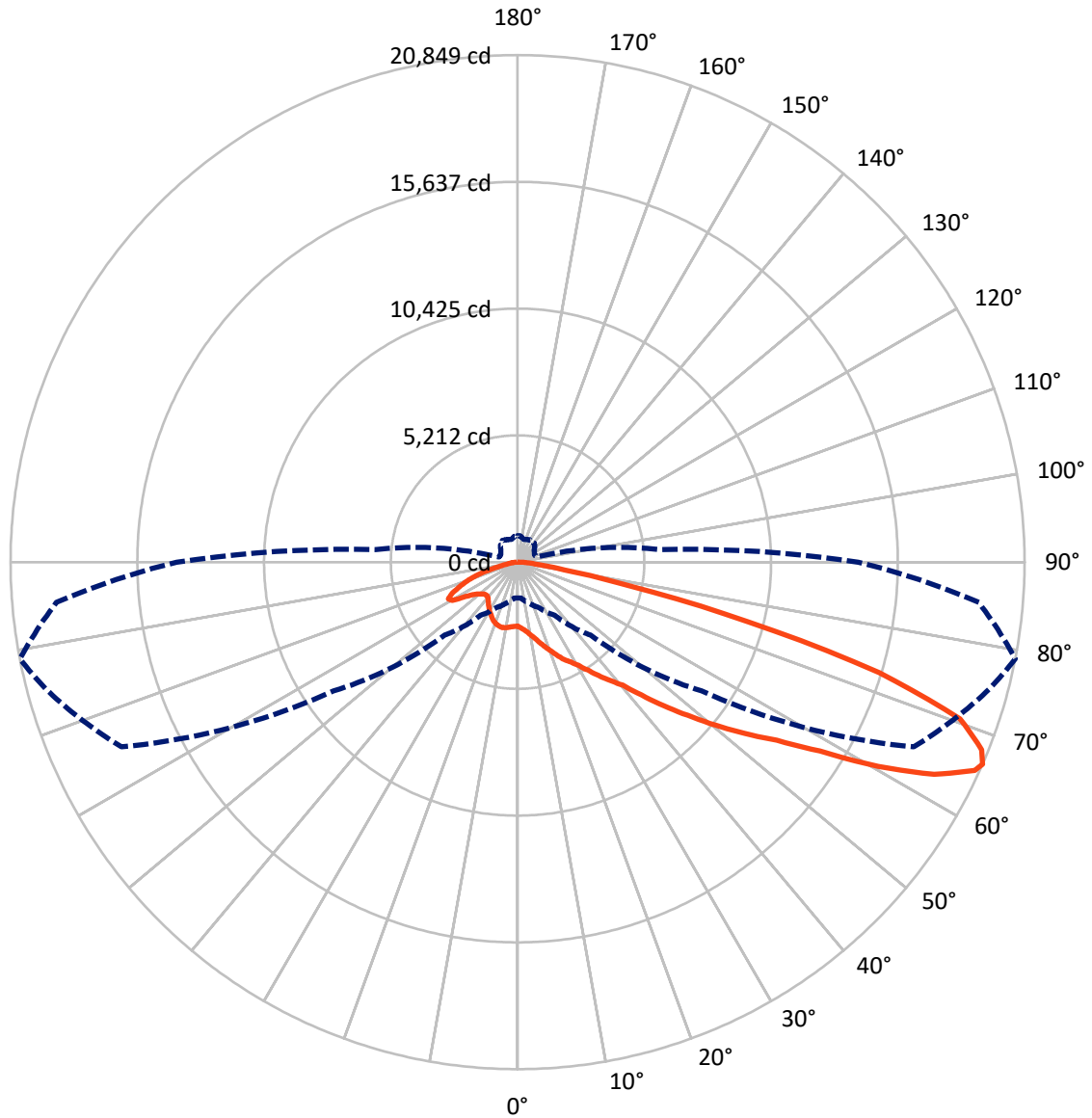
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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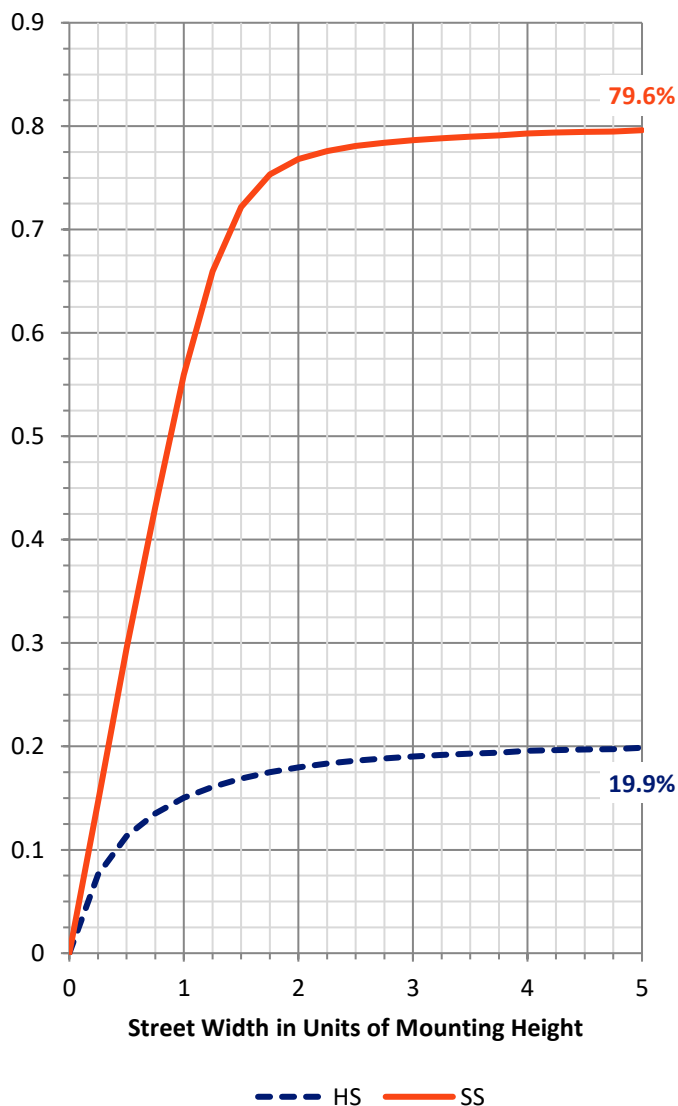
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4213.7	0.0	4213.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	16652.9	0.0	16652.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	20866.6	0.0	20866.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.1	1.2
10°-20°	800.0	3.8
20°-30°	1373.3	6.6
30°-40°	2121.5	10.2
40°-50°	3398.1	16.3
50°-60°	5073.6	24.3
60°-70°	5213.1	25.0
70°-80°	2310.9	11.1
80°-90°	317.1	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°	20866.6	100.0
0°-180°	20866.6	100.0

Coefficient of Utilization



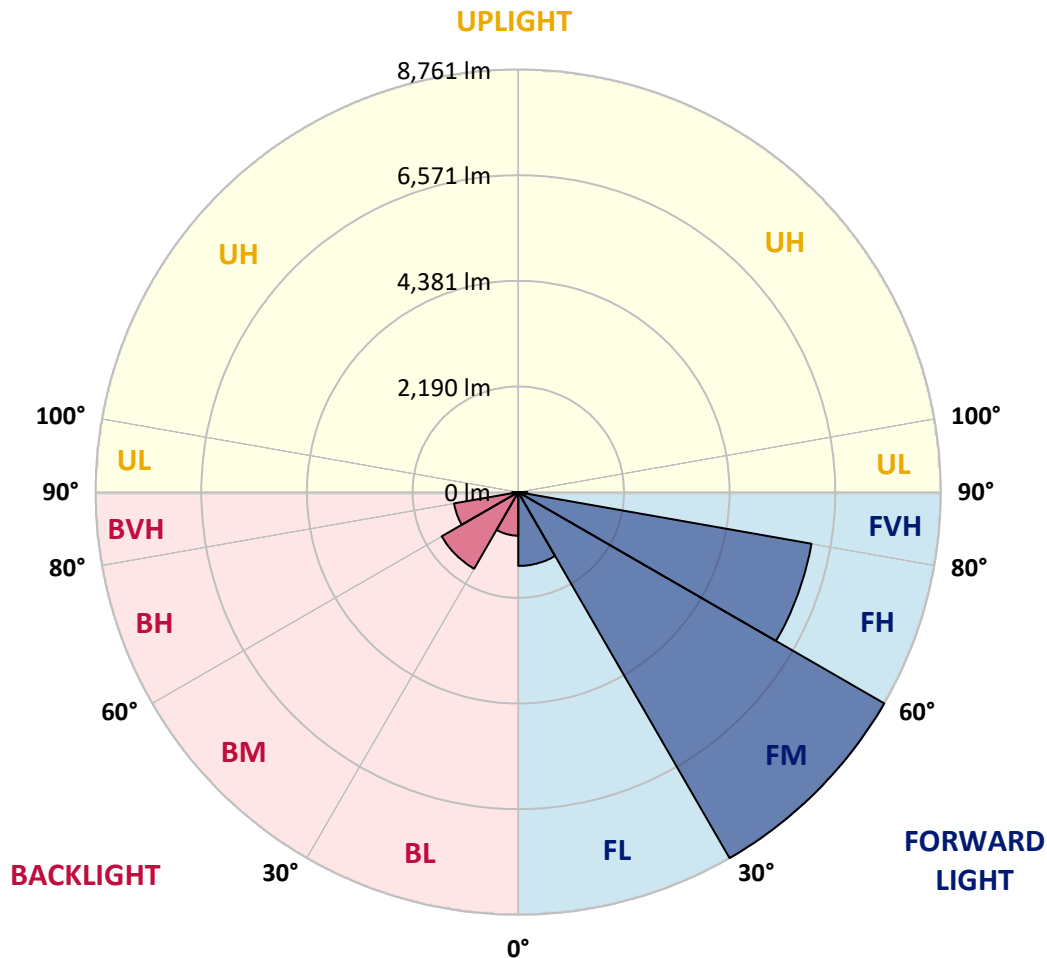
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1529.7	7.3			
FM (30°-60°)	8761.2	42.0			
FH (60°-80°)	6171.9	29.6			G3/7500
FVH (80°-90°)	190.2	0.9			G2/225
BL (0°-30°)	902.8	4.3	B2/1000		
BM (30°-60°)	1831.9	8.8	B2/2500		
BH (60°-80°)	1352.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	126.9	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°	2634.9	2634.9	2634.9	2634.9	2634.9	2634.9	2634.9	2634.9	2634.9	2634.9	2634.9
2.5°	2802.4	2804.7	2804.7	2795.5	2797.8	2804.7	2779.5	2724.4	2724.4	2715.2	2699.1
5°	2974.6	2963.1	2947.0	2949.3	2940.1	2940.1	2912.6	2859.8	2813.9	2795.5	2747.3
7.5°	2997.5	3009.0	3006.7	3034.2	3048.0	3048.0	3061.8	3018.2	2949.3	2905.7	2857.5
10°	3043.4	3013.6	3011.3	3075.5	3096.2	3144.4	3199.5	3176.5	3119.2	3057.2	2992.9
12.5°	3071.0	3089.3	3089.3	3121.4	3169.6	3240.8	3337.2	3380.8	3291.3	3227.0	3128.3
15°	3112.3	3087.0	3160.5	3188.0	3279.8	3330.3	3468.0	3580.5	3520.8	3442.8	3286.7
17.5°	3130.6	3114.6	3155.9	3206.4	3362.4	3438.2	3605.7	3761.8	3711.3	3660.8	3500.2
20°	3224.7	3222.4	3240.8	3282.1	3394.6	3543.8	3752.6	3968.4	3986.7	3894.9	3676.9
22.5°	3454.2	3424.4	3424.4	3408.3	3456.5	3610.3	3892.6	4191.0	4273.6	4165.8	3876.6
25°	3665.4	3706.7	3681.5	3608.0	3589.7	3670.0	3993.6	4427.4	4537.6	4436.6	4147.4
27.5°	3936.2	3950.0	3993.6	3894.9	3768.7	3793.9	4103.8	4560.5	4787.8	4652.3	4301.2
30°	4326.4	4301.2	4292.0	4181.8	4016.6	3982.1	4230.0	4755.6	5116.0	4925.5	4482.5
32.5°	4590.4	4652.3	4650.0	4498.6	4298.9	4223.1	4386.1	4939.2	5467.1	5290.4	4817.6
35°	5113.7	5177.9	5127.4	4904.8	4670.7	4519.2	4611.0	5177.9	5868.8	5731.1	5102.2
37.5°	5781.6	5933.0	5825.2	5414.3	5083.8	4918.6	4923.2	5437.3	6279.6	6167.2	5407.4
40°	6242.9	6447.2	6298.0	5912.4	5561.2	5405.2	5343.2	5744.8	6770.8	6651.4	5884.8
42.5°	6814.4	6984.2	6906.2	6525.2	6114.4	5981.2	5857.3	6259.0	7521.3	7466.2	6497.7
45°	7438.7	7519.0	7493.8	7252.8	6796.0	6750.1	6477.0	6936.0	8405.0	8427.9	7264.3
47.5°	8019.4	8063.0	8111.2	7936.7	7652.1	7691.2	7190.8	7661.3	9263.4	9414.8	8118.1
50°	8168.6	8317.7	8430.2	8547.3	8609.2	8873.2	7978.1	8551.8	10250.3	10544.1	9068.3
52.5°	8017.1	8005.6	8347.6	8714.8	9334.5	9887.6	9049.9	9658.1	11122.5	11703.1	9938.1
55°	7328.5	7305.6	7856.4	8343.0	9552.5	10452.3	10580.8	11131.6	12175.9	12931.1	11115.6
57.5°	6123.5	5981.2	6582.6	7381.3	9079.7	10514.2	12118.6	13318.9	13796.3	14657.0	12912.7
60°	4115.3	4055.6	4631.7	5584.2	7372.1	9635.2	13038.9	16057.1	16080.0	17048.6	15701.3
62.5°	2533.9	2545.4	2914.9	3628.7	5161.9	7638.4	12641.9	18244.4	18249.0	19219.9	17996.5
65°	1657.1	1664.0	1962.4	2357.2	3224.7	5180.2	10454.6	18416.5	19756.9	20658.9	19047.7
66°	1475.8	1478.1	1735.2	2056.5	2671.6	4239.2	9233.5	17969.0	20096.6	20849.4	19033.9
67.5°	1244.0	1273.8	1480.4	1728.3	2084.0	3045.7	7326.2	16674.5	19922.2	20583.2	18602.5
70°	973.2	989.2	1152.2	1404.7	1563.0	1762.7	4354.0	13592.1	18235.2	19307.1	17032.5
72.5°	780.4	794.1	918.1	1140.7	1269.2	1161.4	2370.9	9862.4	14404.6	15547.6	13397.0
75°	658.7	661.0	720.7	897.4	1044.3	872.2	1262.4	6330.1	9242.7	9775.2	8207.6
77.5°	532.5	541.7	583.0	684.0	840.0	686.3	752.8	3546.1	4640.9	4679.9	3793.9
80°	433.8	438.4	463.6	498.1	640.4	507.2	509.5	1730.6	1989.9	1944.0	1542.4
82.5°	342.0	346.6	376.4	369.5	470.5	362.6	316.7	833.2	915.8	897.4	709.2
85°	192.8	192.8	296.1	296.1	298.4	229.5	192.8	392.5	484.3	452.2	332.8
87.5°	62.0	64.3	89.5	94.1	149.2	103.3	94.1	146.9	229.5	202.0	119.3
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°	2634.9	2634.9	2634.9	2634.9	2634.9	2634.9	2634.9	2634.9	2634.9	2634.9	2634.9
2.5°	2690.0	2653.2	2637.2	2584.4	2570.6	2536.2	2520.1	2499.5	2492.6	2462.7	2490.3
5°	2710.6	2699.1	2634.9	2568.3	2517.8	2494.9	2460.4	2414.5	2409.9	2368.6	2364.0
7.5°	2797.8	2758.8	2646.3	2575.2	2474.2	2416.8	2341.1	2318.1	2288.3	2274.5	2304.4
10°	2933.2	2834.6	2667.0	2488.0	2364.0	2295.2	2240.1	2224.0	2226.3	2217.1	2203.4
12.5°	3029.6	2935.5	2632.6	2414.5	2253.9	2187.3	2182.7	2198.8	2224.0	2212.6	2228.6
15°	3167.4	2990.6	2607.3	2292.9	2164.4	2146.0	2143.7	2191.9	2189.6	2189.6	2187.3
17.5°	3295.9	3045.7	2515.5	2187.3	2070.3	2084.0	2100.1	2097.8	2120.7	2129.9	2146.0
20°	3458.8	3110.0	2387.0	2081.7	1999.1	1994.5	1992.2	1994.5	2017.5	2031.2	2019.8
22.5°	3601.1	3123.7	2279.1	1980.7	1914.2	1895.8	1866.0	1895.8	1884.3	1888.9	1902.7
25°	3725.1	3126.0	2125.3	1905.0	1829.3	1787.9	1765.0	1762.7	1742.0	1739.7	1739.7
27.5°	3828.4	3048.0	1989.9	1799.4	1728.3	1689.3	1687.0	1661.7	1608.9	1574.5	1579.1
30°	3908.7	2988.3	1895.8	1707.6	1638.8	1631.9	1611.2	1553.8	1485.0	1441.4	1441.4
32.5°	4051.0	2869.0	1767.3	1613.5	1579.1	1569.9	1521.7	1471.2	1406.9	1365.6	1358.7
35°	4156.6	2758.8	1682.4	1533.2	1517.1	1498.8	1457.4	1402.4	1384.0	1374.8	1381.7
37.5°	4275.9	2634.9	1579.1	1464.3	1480.4	1446.0	1397.8	1372.5	1436.8	1420.7	1427.6
40°	4466.4	2547.7	1478.1	1423.0	1439.1	1400.1	1338.1	1328.9	1409.2	1351.9	1338.1
42.5°	4815.3	2545.4	1416.1	1361.0	1372.5	1342.7	1287.6	1283.0	1315.1	1246.3	1225.6
45°	5249.1	2625.7	1370.2	1315.1	1306.0	1301.4	1283.0	1262.4	1234.8	1145.3	1122.3
47.5°	5767.8	2756.5	1361.0	1246.3	1257.8	1296.8	1273.8	1221.0	1149.9	1092.5	1081.0
50°	6396.7	3027.3	1338.1	1195.8	1216.4	1278.4	1260.1	1186.6	1122.3	1085.6	1078.7
52.5°	7092.1	3369.3	1308.3	1117.8	1163.7	1262.4	1271.5	1202.7	1108.6	1076.4	1071.9
55°	7911.5	3874.3	1273.8	1032.8	1101.7	1246.3	1271.5	1156.8	1090.2	1090.2	1085.6
57.5°	9529.6	4783.2	1202.7	954.8	1046.6	1216.4	1234.8	1159.1	1092.5	1092.5	1083.3
60°	11902.8	6201.6	1067.3	895.1	993.8	1175.1	1207.3	1124.6	1067.3	1081.0	1078.7
62.5°	13759.6	6633.1	952.5	837.7	941.0	1099.4	1170.5	1087.9	1037.4	1087.9	1092.5
65°	14156.7	6197.0	835.4	775.8	867.6	1025.9	1117.8	1035.1	993.8	1092.5	1097.1
66°	14014.4	5857.3	794.1	757.4	835.4	989.2	1085.6	1016.8	970.9	1087.9	1090.2
67.5°	13380.9	5347.8	748.2	718.4	791.8	936.4	1048.9	991.5	934.1	1074.1	1053.5
70°	12003.8	4535.3	670.2	649.5	729.9	849.2	964.0	927.3	876.8	989.2	952.5
72.5°	9245.0	3624.1	587.6	589.9	658.7	759.7	879.1	853.8	810.2	867.6	844.6
75°	5630.1	2315.8	511.8	516.4	573.8	674.8	798.7	780.4	727.6	759.7	748.2
77.5°	2494.9	1147.6	431.5	440.7	486.6	594.5	695.4	665.6	610.5	617.4	612.8
80°	968.6	544.0	351.2	362.6	392.5	475.1	576.1	548.5	500.3	491.2	486.6
82.5°	465.9	303.0	270.8	275.4	286.9	378.7	495.8	461.3	397.1	355.8	355.8
85°	234.1	188.2	190.5	174.4	190.5	257.1	335.1	280.0	231.8	206.6	211.2
87.5°	94.1	94.1	94.1	80.3	84.9	121.6	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)