

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: P476754

Luminaire Tested: **IFLD-S-SA3C-830-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476754  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-830-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

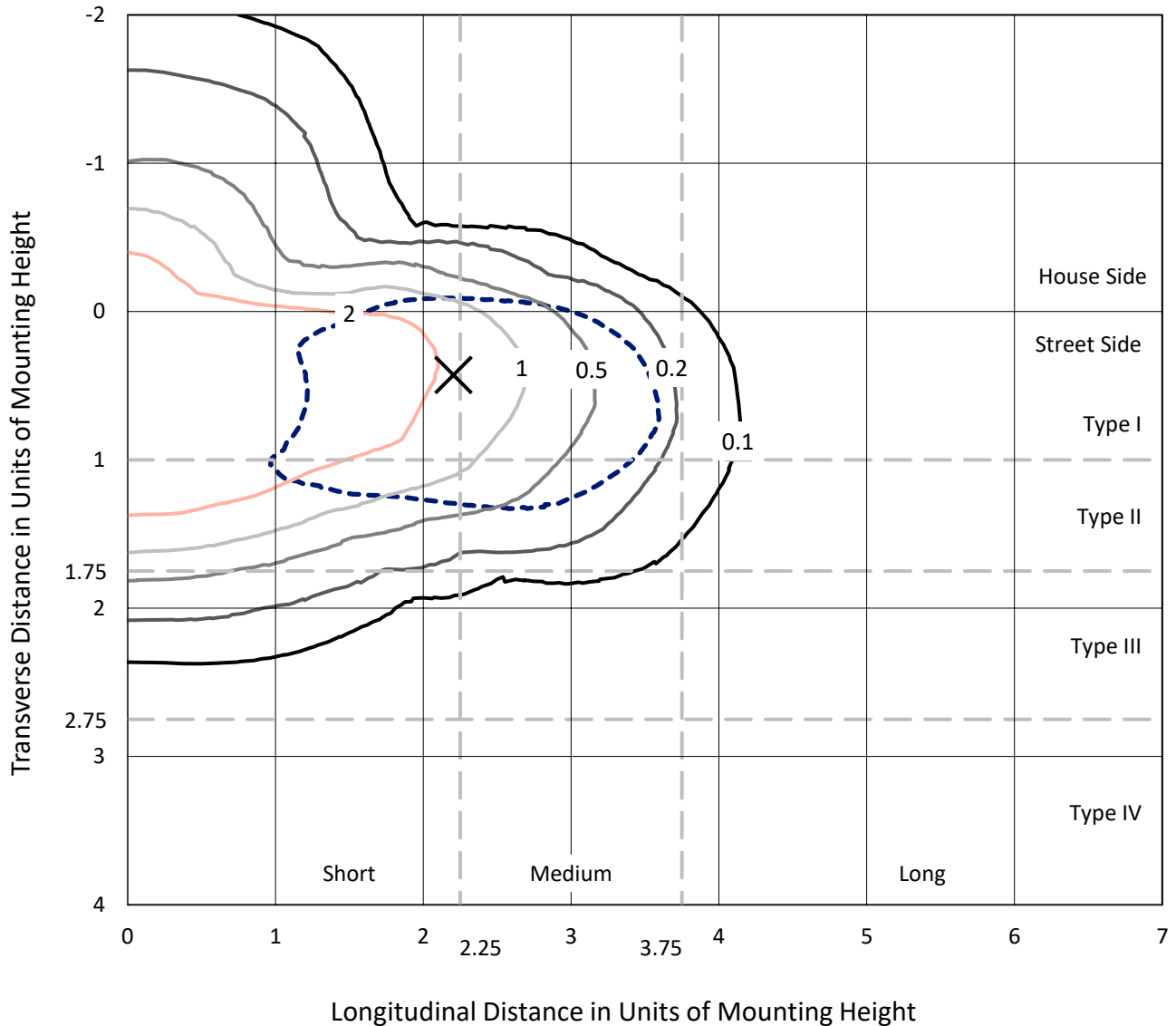
Lumens per Lamp: N/A  
Luminaire Lumens: 16810.9 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 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

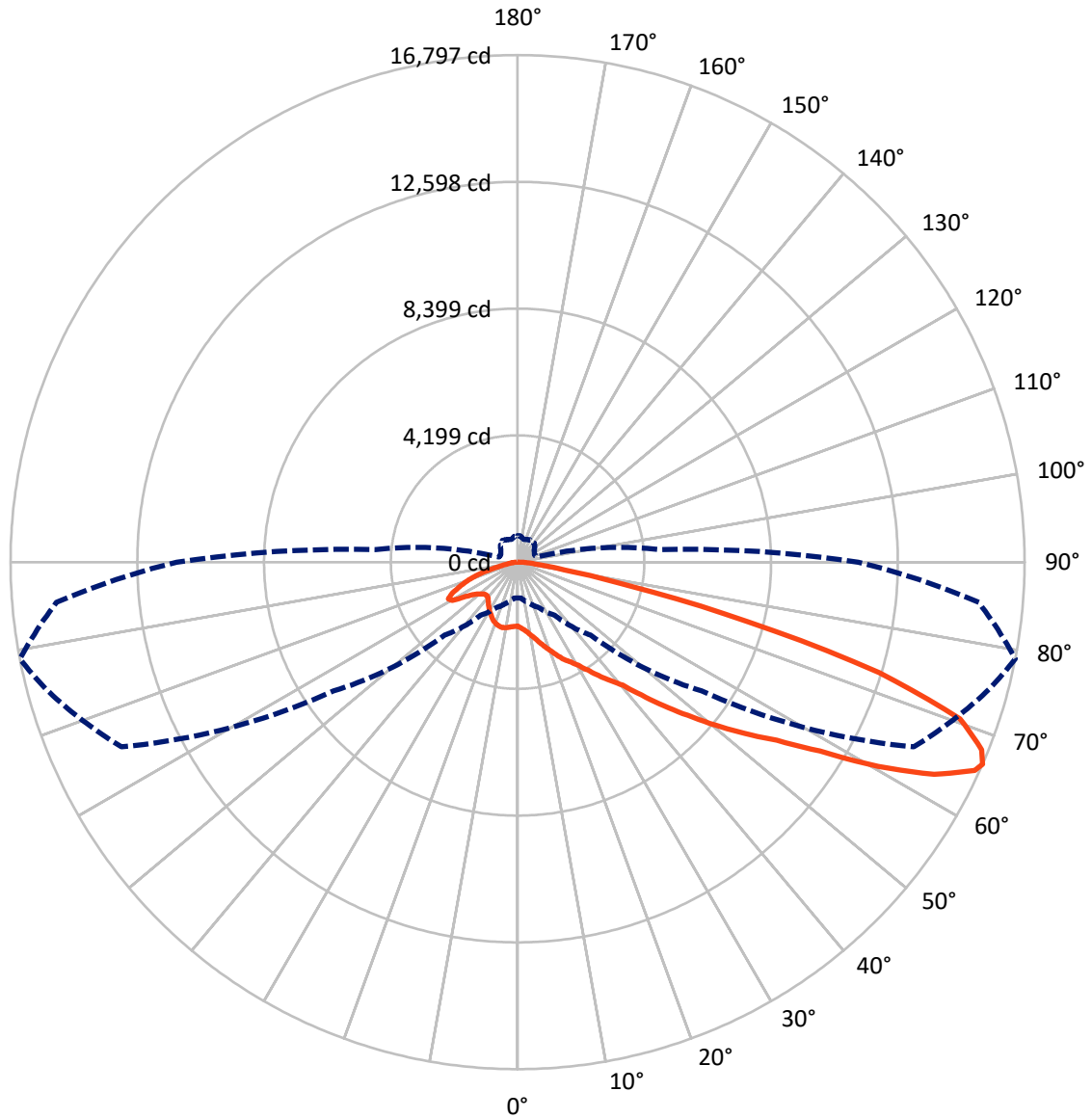
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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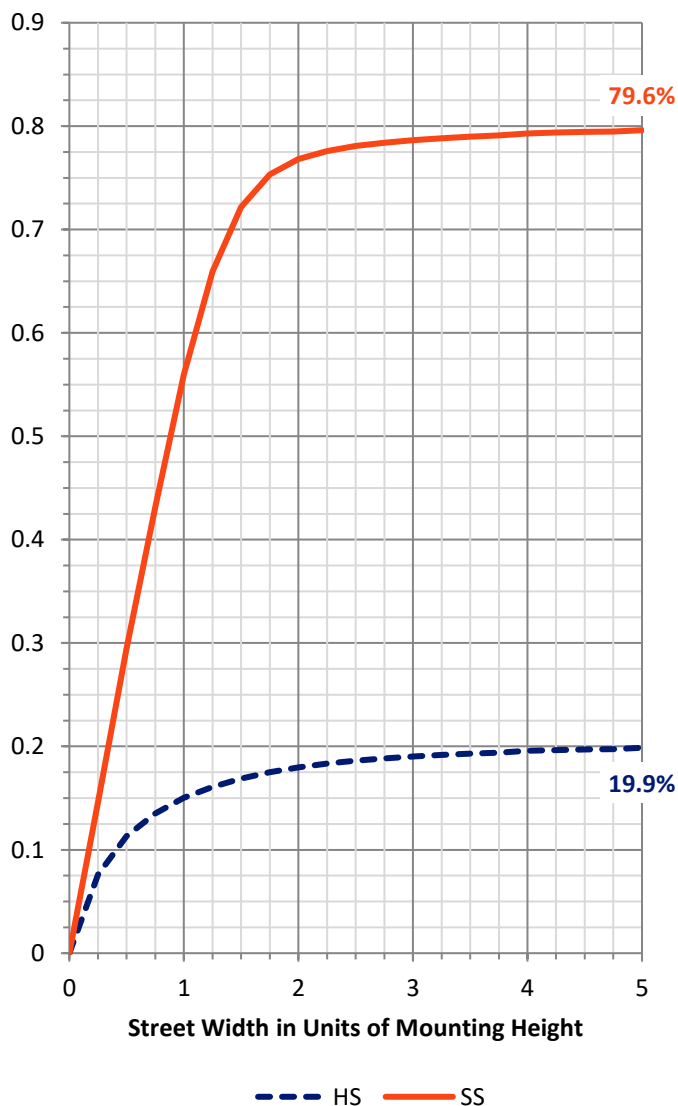
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3394.7	0.0	3394.7
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	13416.2	0.0	13416.2
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	16810.9	0.0	16810.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.7	1.2
10°-20°	644.5	3.8
20°-30°	1106.4	6.6
30°-40°	1709.1	10.2
40°-50°	2737.6	16.3
50°-60°	4087.4	24.3
60°-70°	4199.9	25.0
70°-80°	1861.7	11.1
80°-90°	255.4	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°	16810.9	100.0
0°-180°	16810.9	100.0

**Coefficient of Utilization**



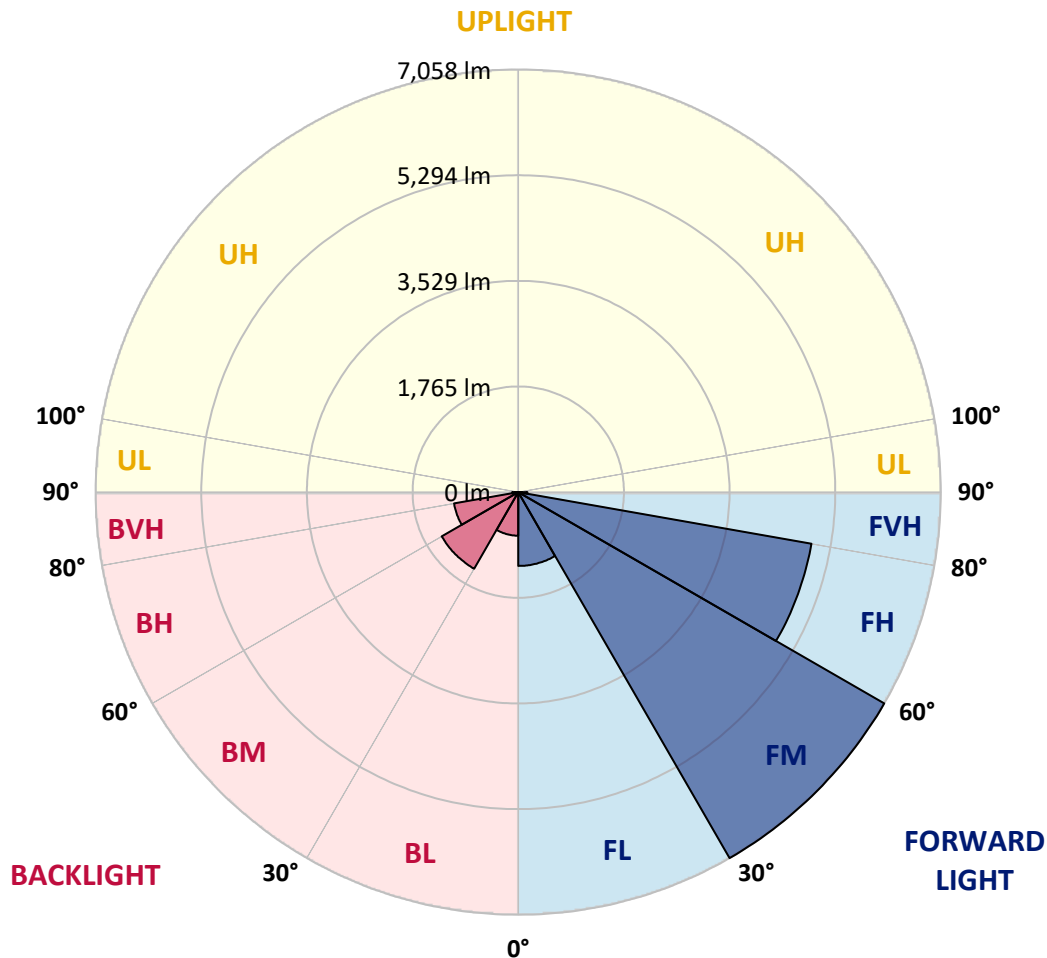
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1232.3	7.3			
FM (30°-60°)	7058.3	42.0			
FH (60°-80°)	4972.3	29.6			G2/5000
FVH (80°-90°)	153.2	0.9			G2/225
BL (0°-30°)	727.3	4.3	B2/1000		
BM (30°-60°)	1475.9	8.8	B2/2500		
BH (60°-80°)	1089.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	102.2	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°	2122.7	2122.7	2122.7	2122.7	2122.7	2122.7	2122.7	2122.7	2122.7	2122.7	2122.7
2.5°	2257.7	2259.6	2259.6	2252.2	2254.0	2259.6	2239.2	2194.9	2194.9	2187.5	2174.5
5°	2396.4	2387.2	2374.2	2376.1	2368.7	2368.7	2346.5	2304.0	2267.0	2252.2	2213.4
7.5°	2414.9	2424.1	2422.3	2444.5	2455.6	2455.6	2466.7	2431.5	2376.1	2340.9	2302.1
10°	2451.9	2427.8	2426.0	2477.8	2494.4	2533.2	2577.6	2559.1	2512.9	2463.0	2411.2
12.5°	2474.1	2488.9	2488.9	2514.8	2553.6	2610.9	2688.6	2723.7	2651.6	2599.8	2520.3
15°	2507.4	2487.0	2546.2	2568.4	2642.3	2683.0	2794.0	2884.6	2836.5	2773.6	2647.9
17.5°	2522.2	2509.2	2542.5	2583.2	2708.9	2769.9	2904.9	3030.6	2990.0	2949.3	2819.9
20°	2598.0	2596.1	2610.9	2644.2	2734.8	2855.0	3023.3	3197.1	3211.9	3137.9	2962.2
22.5°	2782.9	2758.8	2758.8	2745.9	2784.7	2908.6	3136.0	3376.4	3443.0	3356.1	3123.1
25°	2953.0	2986.3	2965.9	2906.8	2892.0	2956.7	3217.4	3566.9	3655.6	3574.3	3341.3
27.5°	3171.2	3182.3	3217.4	3137.9	3036.2	3056.5	3306.2	3674.1	3857.2	3748.1	3465.2
30°	3485.5	3465.2	3457.8	3369.0	3235.9	3208.2	3407.9	3831.3	4121.6	3968.1	3611.3
32.5°	3698.2	3748.1	3746.2	3624.2	3463.3	3402.3	3533.6	3979.2	4404.5	4262.1	3881.2
35°	4119.8	4171.5	4130.9	3951.5	3762.9	3640.8	3714.8	4171.5	4728.1	4617.2	4110.5
37.5°	4657.8	4779.9	4693.0	4362.0	4095.7	3962.6	3966.3	4380.5	5059.1	4968.5	4356.4
40°	5029.5	5194.1	5073.9	4763.2	4480.3	4354.6	4304.7	4628.3	5454.8	5358.6	4741.1
42.5°	5489.9	5626.8	5563.9	5256.9	4926.0	4818.7	4718.9	5042.5	6059.4	6015.1	5234.8
45°	5992.9	6057.6	6037.3	5843.1	5475.1	5438.2	5218.1	5587.9	6771.3	6789.8	5852.4
47.5°	6460.7	6495.8	6534.7	6394.1	6164.8	6196.3	5793.2	6172.2	7462.9	7584.9	6540.2
50°	6580.9	6701.1	6791.7	6886.0	6935.9	7148.6	6427.4	6889.7	8258.0	8494.7	7305.7
52.5°	6458.9	6449.6	6725.1	7021.0	7520.2	7965.9	7290.9	7780.9	8960.7	9428.5	8006.5
55°	5904.1	5885.6	6329.4	6721.4	7695.9	8420.7	8524.3	8968.1	9809.4	10417.7	8955.1
57.5°	4933.4	4818.7	5303.2	5946.7	7315.0	8470.7	9763.2	10730.2	11114.8	11808.3	10402.9
60°	3315.4	3267.3	3731.5	4498.8	5939.3	7762.5	10504.6	12936.2	12954.7	13735.0	12649.6
62.5°	2041.4	2050.6	2348.3	2923.4	4158.6	6153.8	10184.8	14698.4	14702.1	15484.2	14498.7
65°	1335.0	1340.6	1581.0	1899.0	2598.0	4173.4	8422.6	14837.1	15916.9	16643.6	15345.6
66°	1189.0	1190.8	1397.9	1656.8	2152.3	3415.3	7438.9	14476.5	16190.6	16797.1	15334.5
67.5°	1002.2	1026.2	1192.7	1392.4	1679.0	2453.7	5902.3	13433.6	16050.1	16582.6	14986.8
70°	784.0	797.0	928.2	1131.6	1259.2	1420.1	3507.7	10950.3	14691.0	15554.5	13722.1
72.5°	628.7	639.8	739.6	919.0	1022.5	935.6	1910.1	7945.5	11604.9	12525.7	10793.1
75°	530.7	532.5	580.6	723.0	841.3	702.7	1017.0	5099.8	7446.3	7875.2	6612.3
77.5°	429.0	436.4	469.7	551.0	676.8	552.9	606.5	2856.8	3738.8	3770.3	3056.5
80°	349.5	353.2	373.5	401.3	515.9	408.6	410.5	1394.2	1603.2	1566.2	1242.6
82.5°	275.5	279.2	303.2	297.7	379.1	292.2	255.2	671.2	737.8	723.0	571.4
85°	155.3	155.3	238.5	238.5	240.4	184.9	155.3	316.2	390.2	364.3	268.1
87.5°	49.9	51.8	72.1	75.8	120.2	83.2	75.8	118.3	184.9	162.7	96.2
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°	2122.7	2122.7	2122.7	2122.7	2122.7	2122.7	2122.7	2122.7	2122.7	2122.7	2122.7
2.5°	2167.1	2137.5	2124.6	2082.1	2071.0	2043.2	2030.3	2013.7	2008.1	1984.1	2006.3
5°	2183.8	2174.5	2122.7	2069.1	2028.4	2010.0	1982.2	1945.2	1941.5	1908.3	1904.6
7.5°	2254.0	2222.6	2132.0	2074.7	1993.3	1947.1	1886.1	1867.6	1843.5	1832.4	1856.5
10°	2363.1	2283.6	2148.6	2004.4	1904.6	1849.1	1804.7	1791.8	1793.6	1786.2	1775.1
12.5°	2440.8	2365.0	2120.9	1945.2	1815.8	1762.2	1758.5	1771.4	1791.8	1782.5	1795.5
15°	2551.7	2409.4	2100.6	1847.2	1743.7	1728.9	1727.0	1765.9	1764.0	1764.0	1762.2
17.5°	2655.3	2453.7	2026.6	1762.2	1667.9	1679.0	1691.9	1690.1	1708.6	1716.0	1728.9
20°	2786.6	2505.5	1923.0	1677.1	1610.6	1606.9	1605.0	1606.9	1625.3	1636.4	1627.2
22.5°	2901.2	2516.6	1836.1	1595.8	1542.1	1527.3	1503.3	1527.3	1518.1	1521.8	1532.9
25°	3001.1	2518.5	1712.3	1534.7	1473.7	1440.4	1421.9	1420.1	1403.5	1401.6	1401.6
27.5°	3084.3	2455.6	1603.2	1449.7	1392.4	1360.9	1359.1	1338.7	1296.2	1268.5	1272.2
30°	3149.0	2407.5	1527.3	1375.7	1320.2	1314.7	1298.1	1251.8	1196.4	1161.2	1161.2
32.5°	3263.6	2311.4	1423.8	1299.9	1272.2	1264.8	1225.9	1185.3	1133.5	1100.2	1094.7
35°	3348.7	2222.6	1355.4	1235.2	1222.2	1207.5	1174.2	1129.8	1115.0	1107.6	1113.1
37.5°	3444.8	2122.7	1272.2	1179.7	1192.7	1164.9	1126.1	1105.8	1157.5	1144.6	1150.1
40°	3598.3	2052.5	1190.8	1146.4	1159.4	1127.9	1078.0	1070.6	1135.3	1089.1	1078.0
42.5°	3879.4	2050.6	1140.9	1096.5	1105.8	1081.7	1037.3	1033.6	1059.5	1004.1	987.4
45°	4228.9	2115.4	1103.9	1059.5	1052.1	1048.4	1033.6	1017.0	994.8	922.7	904.2
47.5°	4646.7	2220.8	1096.5	1004.1	1013.3	1044.7	1026.2	983.7	926.4	880.2	870.9
50°	5153.4	2438.9	1078.0	963.4	980.0	1029.9	1015.1	956.0	904.2	874.6	869.1
52.5°	5713.7	2714.5	1054.0	900.5	937.5	1017.0	1024.4	968.9	893.1	867.2	863.5
55°	6373.8	3121.3	1026.2	832.1	887.6	1004.1	1024.4	931.9	878.3	878.3	874.6
57.5°	7677.4	3853.5	968.9	769.2	843.2	980.0	994.8	933.8	880.2	880.2	872.8
60°	9589.4	4996.2	859.8	721.1	800.7	946.7	972.6	906.1	859.8	870.9	869.1
62.5°	11085.3	5343.9	767.4	674.9	758.1	885.7	943.0	876.5	835.8	876.5	880.2
65°	11405.2	4992.5	673.1	625.0	699.0	826.5	900.5	833.9	800.7	880.2	883.9
66°	11290.5	4718.9	639.8	610.2	673.1	797.0	874.6	819.1	782.2	876.5	878.3
67.5°	10780.2	4308.4	602.8	578.8	637.9	754.4	845.0	798.8	752.6	865.4	848.7
70°	9670.7	3653.8	539.9	523.3	588.0	684.2	776.6	747.0	706.4	797.0	767.4
72.5°	7448.1	2919.7	473.4	475.2	530.7	612.0	708.2	687.9	652.7	699.0	680.5
75°	4535.8	1865.7	412.3	416.0	462.3	543.6	643.5	628.7	586.2	612.0	602.8
77.5°	2010.0	924.5	347.6	355.0	392.0	478.9	560.3	536.2	491.9	497.4	493.7
80°	780.3	438.2	282.9	292.2	316.2	382.8	464.1	441.9	403.1	395.7	392.0
82.5°	375.4	244.1	218.2	221.9	231.1	305.1	399.4	371.7	319.9	286.6	286.6
85°	188.6	151.6	153.5	140.5	153.5	207.1	270.0	225.6	186.8	166.4	170.1
87.5°	75.8	75.8	75.8	64.7	68.4	98.0	125.7	85.1	77.7	46.2	46.2
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)