

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: P481429

Luminaire Tested: **IFLD-S-SA2C-830-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481429  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-830-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

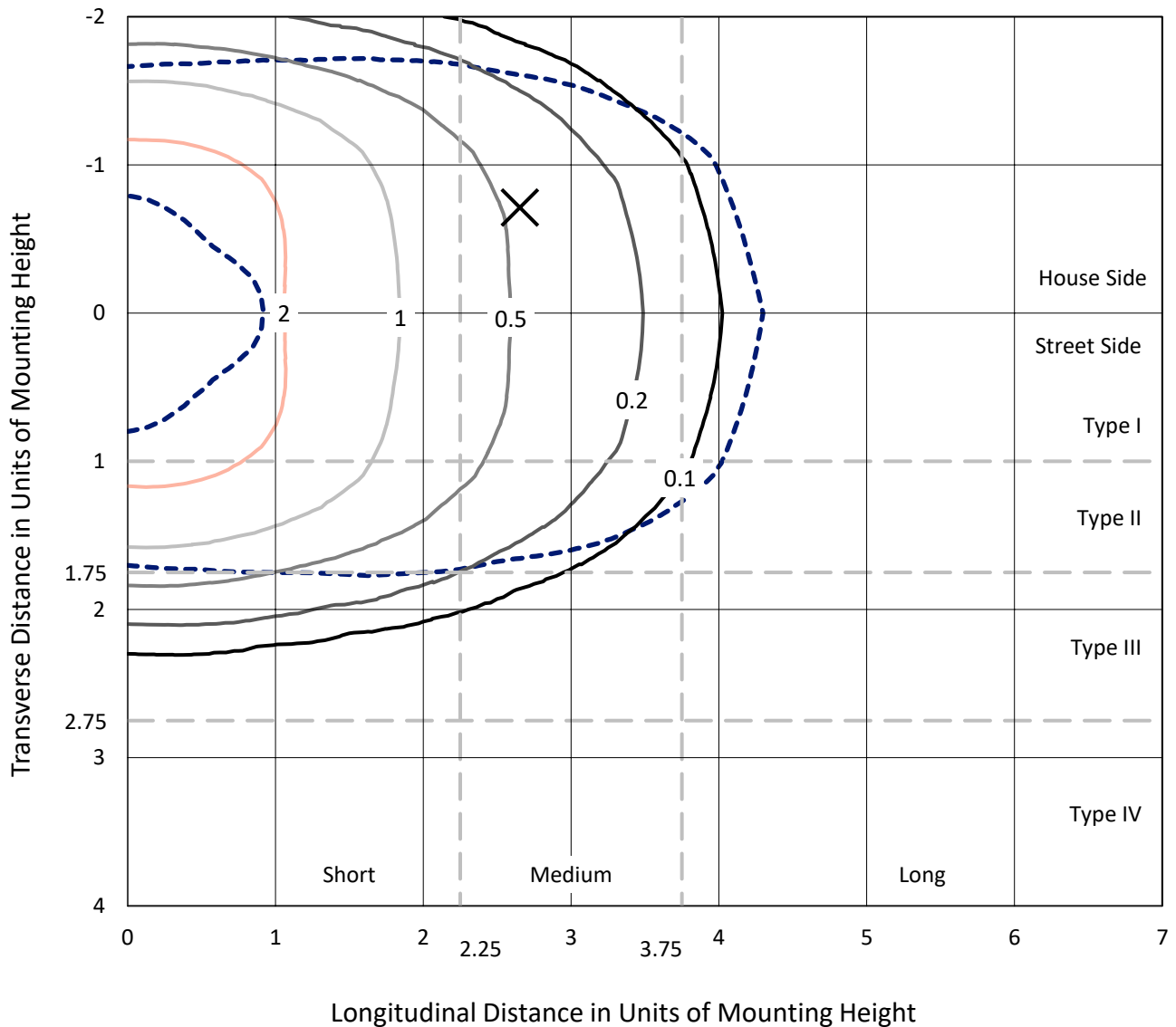
Lumens per Lamp: N/A  
Luminaire Lumens: 11633.1 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 108.2  
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: P481429  
 CATALOG NUMBER: IFLD-S-SA2C-830-U-RW

### Iso-Footcandle Lines of Horizontal Illumination

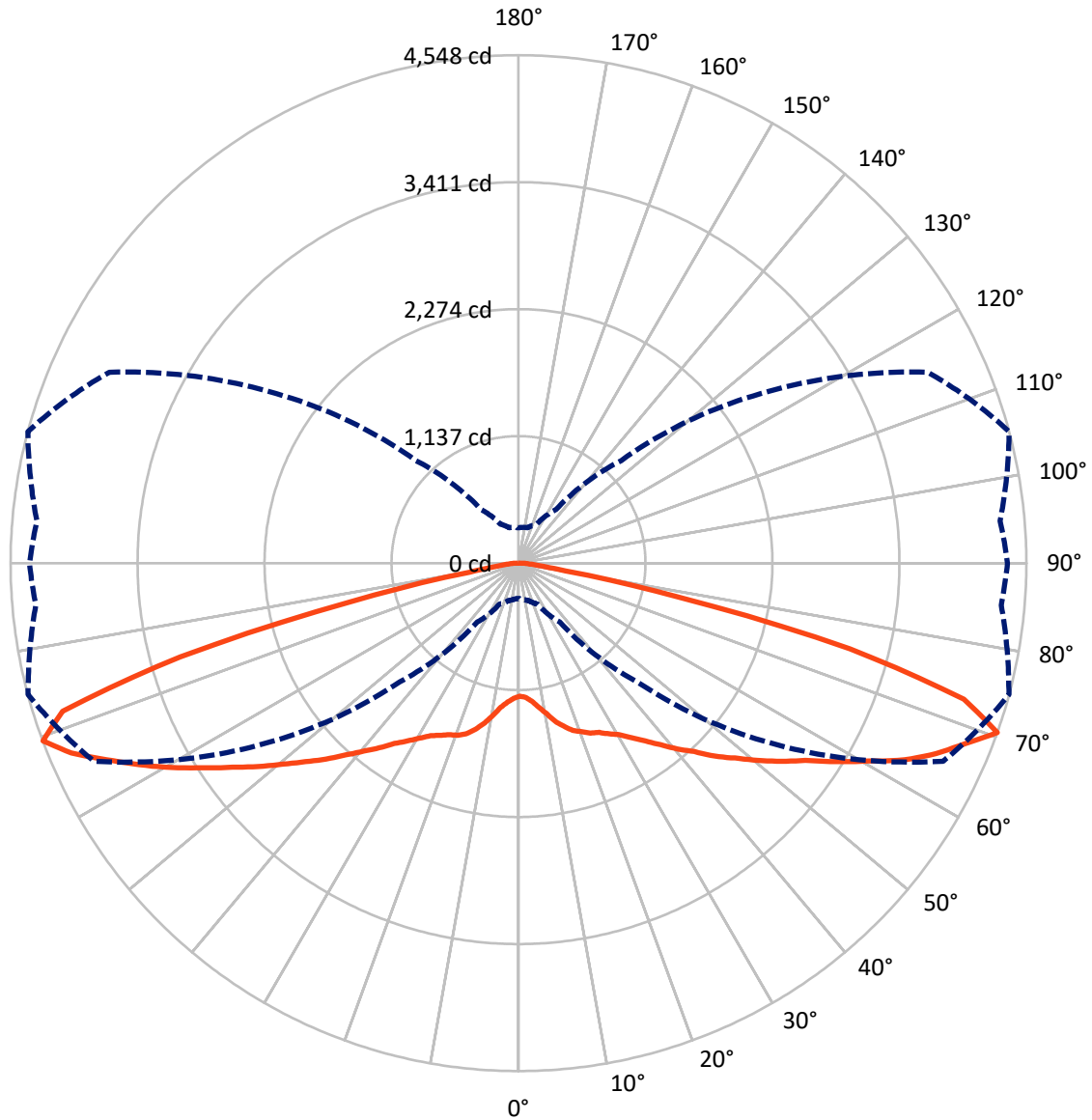
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P481429  
CATALOG NUMBER: IFLD-S-SA2C-830-U-RW

### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P481429  
 CATALOG NUMBER: IFLD-S-SA2C-830-U-RW

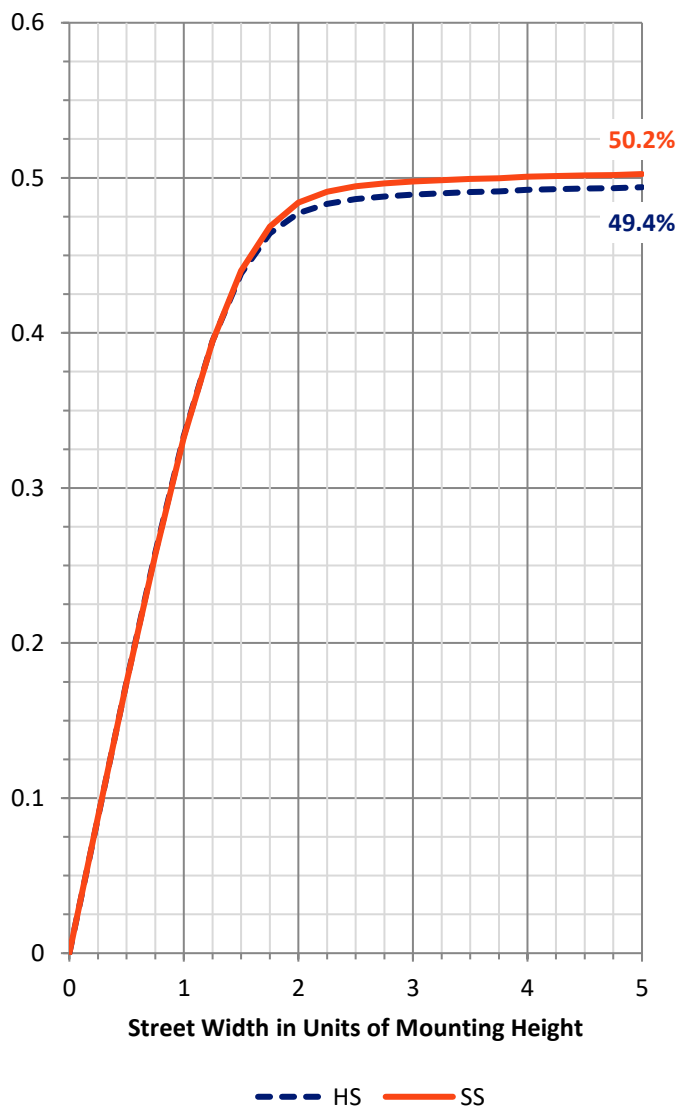
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5775.2	0.0	5775.2
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	5857.9	0.0	5857.9
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	11633.1	0.0	11633.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.6	1.0
10°-20°	403.7	3.5
20°-30°	781.7	6.7
30°-40°	1322.2	11.4
40°-50°	2109.3	18.1
50°-60°	2887.2	24.8
60°-70°	2721.4	23.4
70°-80°	1198.8	10.3
80°-90°	90.2	0.8
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°	11633.1	100.0
0°-180°	11633.1	100.0

**Coefficient of Utilization**



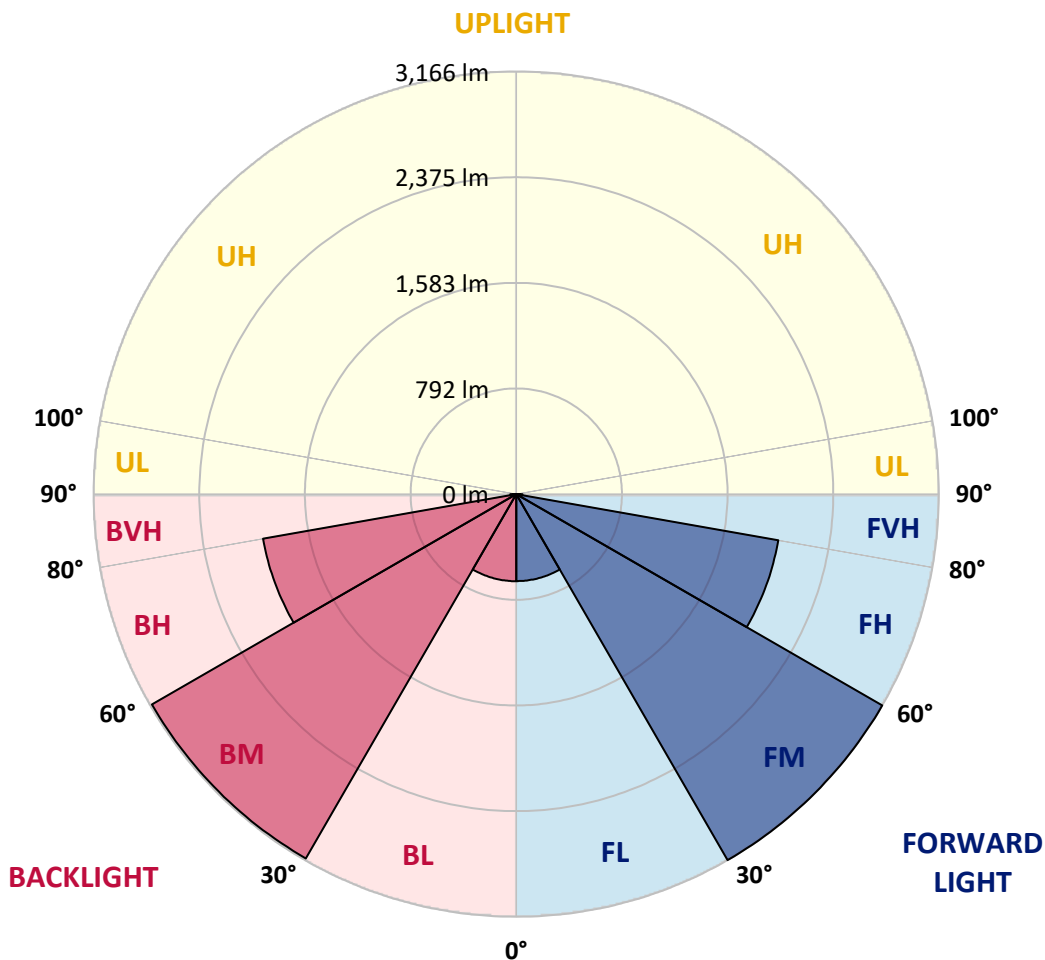
REPORT NUMBER: P481429  
 CATALOG NUMBER: IFLD-S-SA2C-830-U-RW

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	651.6	5.6			
FM (30°-60°)	3166.4	27.2			
FH (60°-80°)	1993.8	17.1			G2/5000
FVH (80°-90°)	46.1	0.4			G1/100
BL (0°-30°)	652.4	5.6	B2/1000		
BM (30°-60°)	3152.3	27.1	B3/5000		
BH (60°-80°)	1926.4	16.6	B3/2500		G3/2500
BVH (80°-90°)	44.1	0.4			G1/100
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: P481429

CATALOG NUMBER: IFLD-S-SA2C-830-U-RW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2
2.5°	1183.7	1183.7	1182.4	1188.7	1195.0	1197.5	1202.5	1203.8	1211.3	1205.0	1217.5
5°	1179.9	1178.7	1188.7	1203.8	1203.8	1220.1	1230.1	1243.9	1247.6	1255.2	1257.7
7.5°	1206.3	1203.8	1198.7	1215.0	1228.8	1253.9	1267.7	1291.5	1300.3	1310.3	1321.6
10°	1222.6	1222.6	1217.5	1246.4	1258.9	1292.8	1322.9	1346.7	1380.6	1391.8	1393.1
12.5°	1225.1	1228.8	1243.9	1281.5	1316.6	1360.5	1383.1	1428.2	1462.1	1483.4	1490.9
15°	1262.7	1255.2	1271.5	1322.9	1374.3	1413.2	1453.3	1485.9	1534.8	1562.4	1579.9
17.5°	1296.5	1289.0	1319.1	1380.6	1433.2	1493.4	1528.5	1563.6	1598.7	1623.8	1625.1
20°	1350.5	1356.7	1383.1	1449.5	1518.5	1571.2	1611.3	1617.5	1635.1	1671.5	1665.2
22.5°	1416.9	1411.9	1467.1	1539.8	1615.0	1658.9	1681.5	1665.2	1656.4	1695.3	1704.1
25°	1483.4	1498.4	1548.6	1616.3	1706.6	1765.5	1771.8	1726.6	1694.0	1707.8	1704.1
27.5°	1584.9	1587.5	1640.1	1720.4	1811.9	1863.3	1859.6	1795.6	1732.9	1734.2	1736.7
30°	1715.4	1702.8	1760.5	1833.2	1923.5	1969.9	1976.2	1884.6	1800.6	1775.5	1781.8
32.5°	1840.7	1855.8	1905.9	1988.7	2055.2	2081.5	2067.7	1986.2	1877.1	1843.3	1847.0
35°	2001.2	1998.7	2067.7	2137.9	2188.1	2193.1	2181.8	2062.7	1959.9	1916.0	1898.4
37.5°	2173.0	2195.6	2240.7	2298.4	2351.1	2353.6	2292.2	2196.9	2070.2	1997.5	2018.8
40°	2364.9	2390.0	2422.6	2506.6	2545.4	2505.3	2442.6	2313.5	2181.8	2117.9	2127.9
42.5°	2534.2	2545.4	2611.9	2711.0	2729.8	2712.2	2619.4	2462.7	2309.7	2239.5	2244.5
45°	2689.6	2704.7	2791.2	2880.2	2924.1	2894.0	2786.2	2637.0	2458.9	2398.7	2374.9
47.5°	2832.6	2862.7	2946.7	3038.2	3105.9	3108.5	2975.5	2795.0	2606.9	2527.9	2526.6
50°	2929.1	2973.0	3055.8	3159.9	3258.9	3297.8	3164.9	2970.5	2768.6	2684.6	2675.9
52.5°	2981.8	3026.9	3109.7	3271.5	3381.8	3442.0	3379.3	3134.8	2958.0	2870.2	2856.4
55°	2917.9	2947.9	3083.4	3310.3	3480.9	3579.9	3538.5	3361.7	3146.1	3074.6	3087.1
57.5°	2645.8	2708.5	2875.2	3158.6	3478.4	3721.6	3717.9	3576.2	3363.0	3295.3	3297.8
60°	2178.0	2230.7	2436.4	2832.6	3337.9	3779.3	3912.2	3784.3	3606.3	3527.3	3524.7
62.5°	1537.3	1603.8	1842.0	2274.6	2924.1	3699.0	4135.4	4046.4	3844.5	3786.8	3808.1
65°	860.2	900.3	1121.0	1512.2	2228.2	3257.7	4175.5	4318.5	4086.5	3998.7	4002.5
67.5°	460.2	475.2	578.1	793.7	1363.0	2511.6	3770.5	4475.2	4348.6	4196.8	4173.0
70°	316.0	321.0	347.3	406.3	644.5	1502.2	2843.9	4195.6	4545.4	4338.5	4378.7
72.5°	267.1	264.6	270.8	277.1	337.3	672.1	1669.0	3228.8	4290.9	4213.1	4198.1
75°	232.0	230.7	233.2	227.0	234.5	295.9	738.6	2012.5	3141.1	3505.9	3562.4
77.5°	191.8	193.1	194.4	188.1	185.6	195.6	297.2	884.0	1546.1	1706.6	1840.7
80°	145.5	148.0	158.0	151.7	141.7	142.9	175.5	295.9	443.9	402.5	415.0
82.5°	99.1	100.3	121.6	114.1	106.6	96.6	112.9	153.0	173.0	131.7	115.4
85°	70.2	69.0	79.0	72.7	67.7	48.9	67.7	86.5	104.1	65.2	58.9
87.5°	16.3	16.3	32.6	26.3	25.1	20.1	26.3	33.9	45.1	28.8	26.3
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: P481429

CATALOG NUMBER: IFLD-S-SA2C-830-U-RW

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2	1191.2
2.5°	1213.8	1202.5	1202.5	1200.0	1190.0	1187.5	1178.7	1181.2	1174.9	1168.6
5°	1256.4	1241.4	1241.4	1220.1	1200.0	1197.5	1187.5	1187.5	1177.4	1179.9
7.5°	1315.4	1301.6	1279.0	1260.2	1232.6	1221.3	1202.5	1200.0	1197.5	1192.5
10°	1385.6	1368.0	1345.4	1306.6	1284.0	1262.7	1243.9	1217.5	1211.3	1212.5
12.5°	1480.9	1453.3	1404.4	1370.5	1341.7	1314.1	1286.5	1247.6	1238.9	1242.6
15°	1548.6	1513.5	1464.6	1452.0	1413.2	1379.3	1334.2	1290.3	1275.2	1271.5
17.5°	1603.8	1574.9	1546.1	1527.3	1495.9	1454.5	1391.8	1341.7	1307.8	1304.1
20°	1648.9	1611.3	1605.0	1616.3	1577.4	1549.8	1473.3	1411.9	1366.8	1348.0
22.5°	1676.5	1652.7	1670.2	1680.2	1677.7	1631.3	1552.3	1480.9	1424.4	1406.9
25°	1706.6	1679.0	1741.7	1775.5	1784.3	1707.8	1646.4	1552.3	1497.2	1485.9
27.5°	1721.6	1731.7	1804.4	1875.9	1869.6	1810.7	1727.9	1643.9	1600.0	1579.9
30°	1765.5	1781.8	1892.2	1972.4	1973.7	1916.0	1853.3	1758.0	1709.1	1700.3
32.5°	1844.5	1864.6	1982.4	2067.7	2082.7	2038.9	1976.2	1917.2	1867.1	1847.0
35°	1904.7	1956.1	2089.0	2166.8	2206.9	2180.6	2145.4	2084.0	2031.3	2013.8
37.5°	1991.2	2062.7	2190.6	2295.9	2341.1	2338.5	2312.2	2245.8	2201.9	2186.8
40°	2115.4	2186.8	2303.4	2442.6	2526.6	2522.9	2507.8	2456.4	2391.2	2383.7
42.5°	2247.0	2305.9	2457.7	2616.9	2737.3	2724.8	2684.6	2624.4	2579.3	2569.3
45°	2374.9	2466.4	2606.9	2811.3	2901.6	2932.9	2885.3	2782.4	2731.0	2724.8
47.5°	2535.4	2608.1	2783.7	2966.8	3100.9	3105.9	3024.4	2929.1	2835.1	2855.2
50°	2678.4	2774.9	2953.0	3153.6	3314.1	3256.4	3152.3	3033.2	2965.5	2939.2
52.5°	2831.3	2949.2	3156.1	3360.5	3449.5	3391.8	3222.6	3089.6	2986.8	2975.5
55°	3054.5	3116.0	3386.8	3543.6	3572.4	3450.8	3201.2	3013.2	2880.2	2847.6
57.5°	3281.5	3353.0	3590.0	3725.4	3695.3	3418.2	3063.3	2772.4	2598.1	2551.7
60°	3511.0	3598.7	3798.1	3922.2	3766.8	3193.7	2673.3	2298.4	2095.3	2053.9
62.5°	3766.8	3880.9	4058.9	4102.8	3554.8	2749.8	2121.6	1658.9	1453.3	1384.3
65°	3993.7	4110.3	4329.8	4065.2	3104.7	2051.4	1371.8	948.0	796.2	741.1
67.5°	4180.5	4312.2	4420.0	3597.5	2273.3	1201.2	714.7	499.1	442.6	422.6
70°	4328.5	4547.9	4043.9	2644.5	1299.1	585.6	386.2	328.5	321.0	316.0
72.5°	4199.4	4170.5	3019.4	1526.0	569.3	322.3	279.6	270.8	269.6	270.8
75°	3434.5	3063.3	1805.6	663.3	285.9	233.2	232.0	228.2	234.5	234.5
77.5°	1666.5	1457.0	754.9	284.6	188.1	183.1	189.3	189.3	189.3	189.3
80°	386.2	427.6	269.6	173.0	136.7	136.7	150.5	151.7	145.5	142.9
82.5°	131.7	175.5	148.0	109.1	90.3	101.6	114.1	116.6	96.6	97.8
85°	65.2	102.8	80.3	62.7	46.4	62.7	74.0	77.7	66.5	63.9
87.5°	30.1	45.1	30.1	21.3	16.3	22.6	21.3	17.6	10.0	10.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)