

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: P481198

Luminaire Tested: **IFLD-S-SA3A-730-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481198  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-730-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

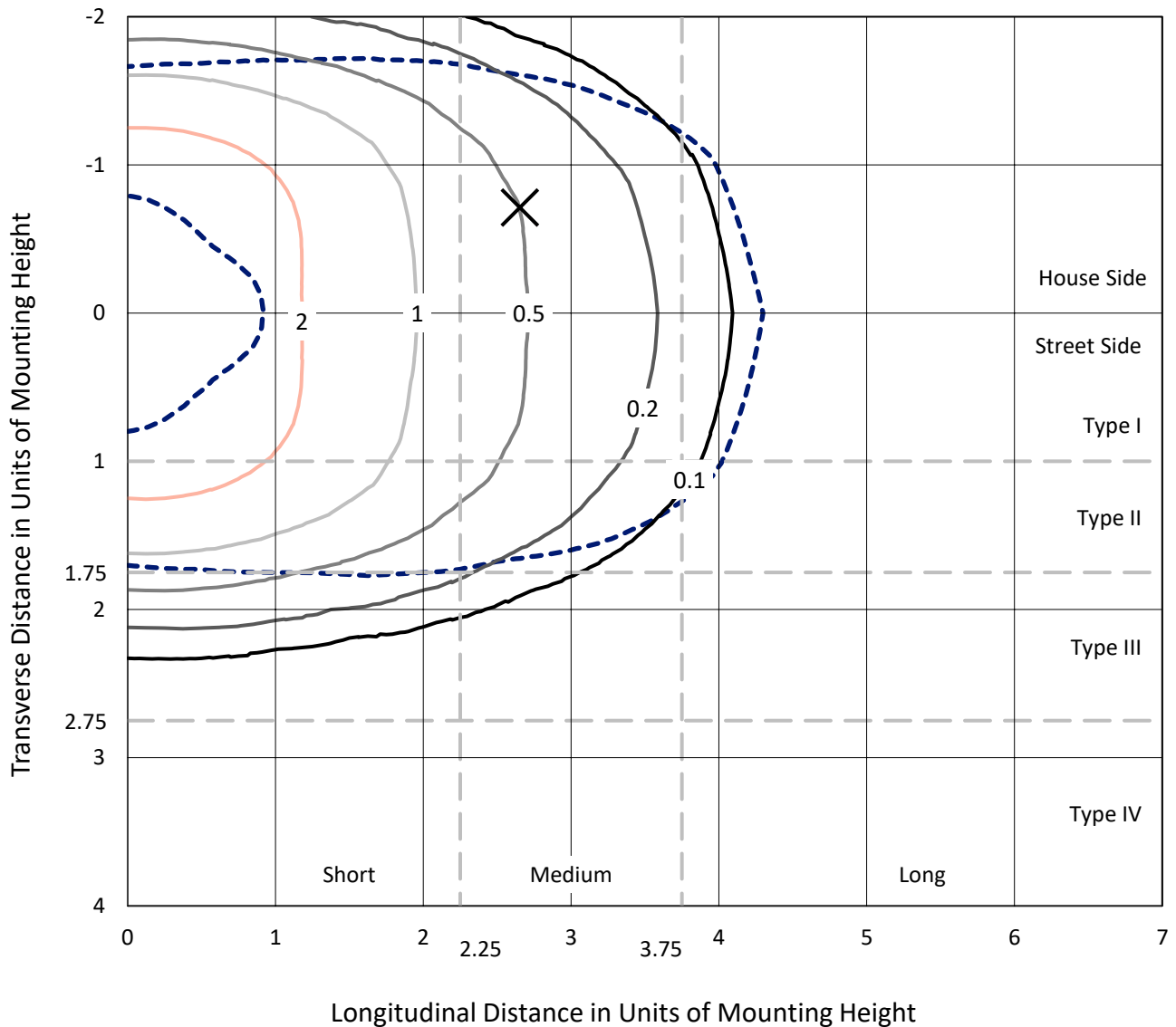
Lumens per Lamp: N/A  
Luminaire Lumens: 12904.7 lumens  
Efficiency: N/A  
Efficacy: 136.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 94.8  
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

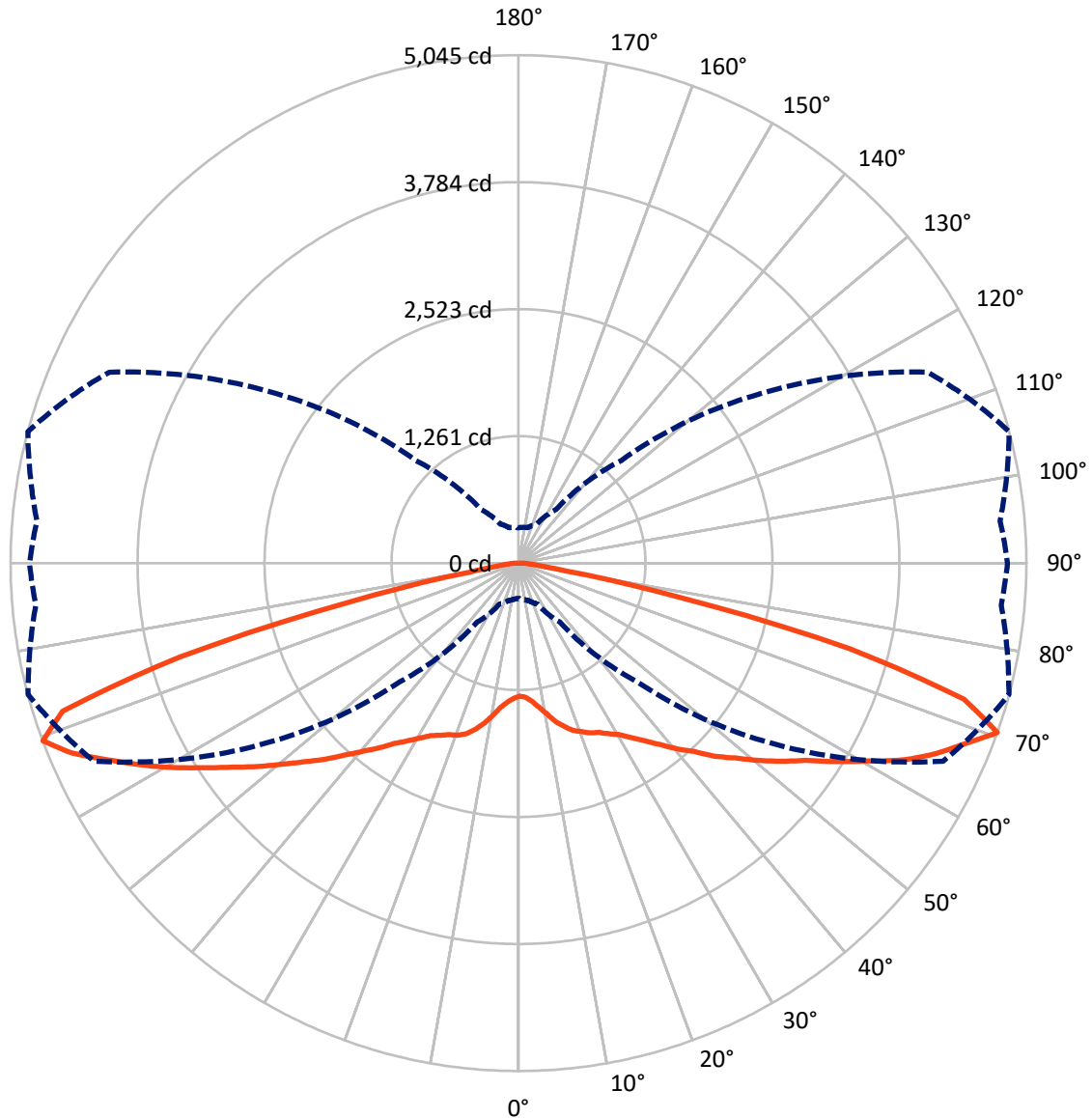
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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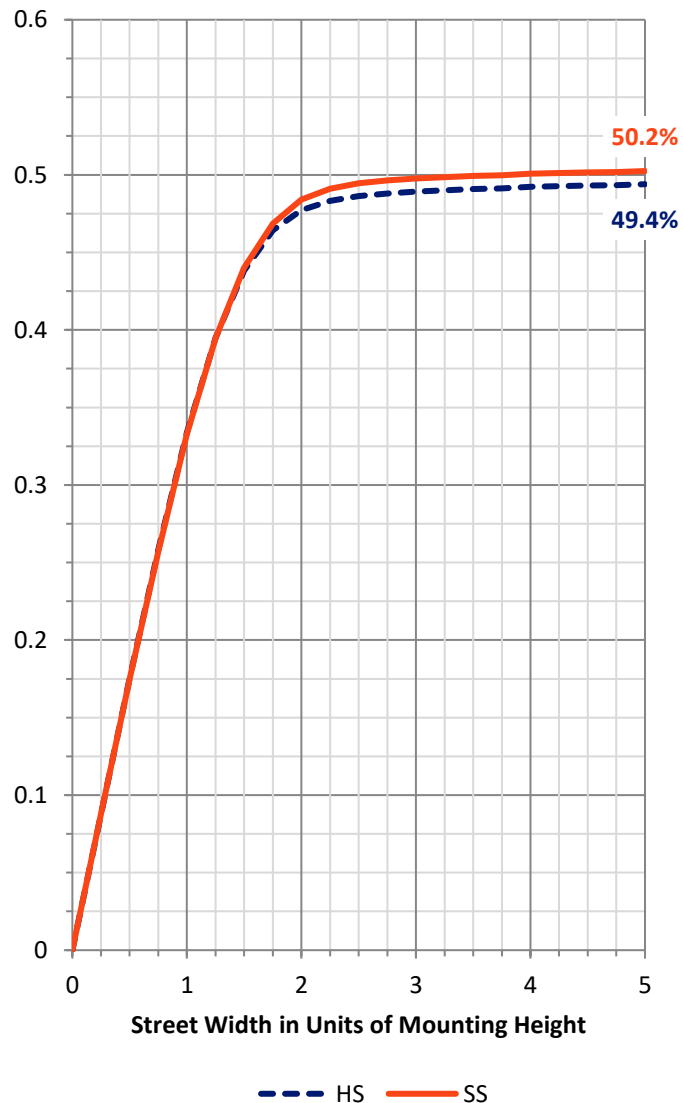
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6406.5	0.0	6406.5
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	6498.3	0.0	6498.3
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	12904.7	0.0	12904.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.5	1.0
10°-20°	447.8	3.5
20°-30°	867.2	6.7
30°-40°	1466.7	11.4
40°-50°	2339.9	18.1
50°-60°	3202.8	24.8
60°-70°	3018.8	23.4
70°-80°	1329.9	10.3
80°-90°	100.1	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°	12904.7	100.0
0°-180°	12904.7	100.0

**Coefficient of Utilization**



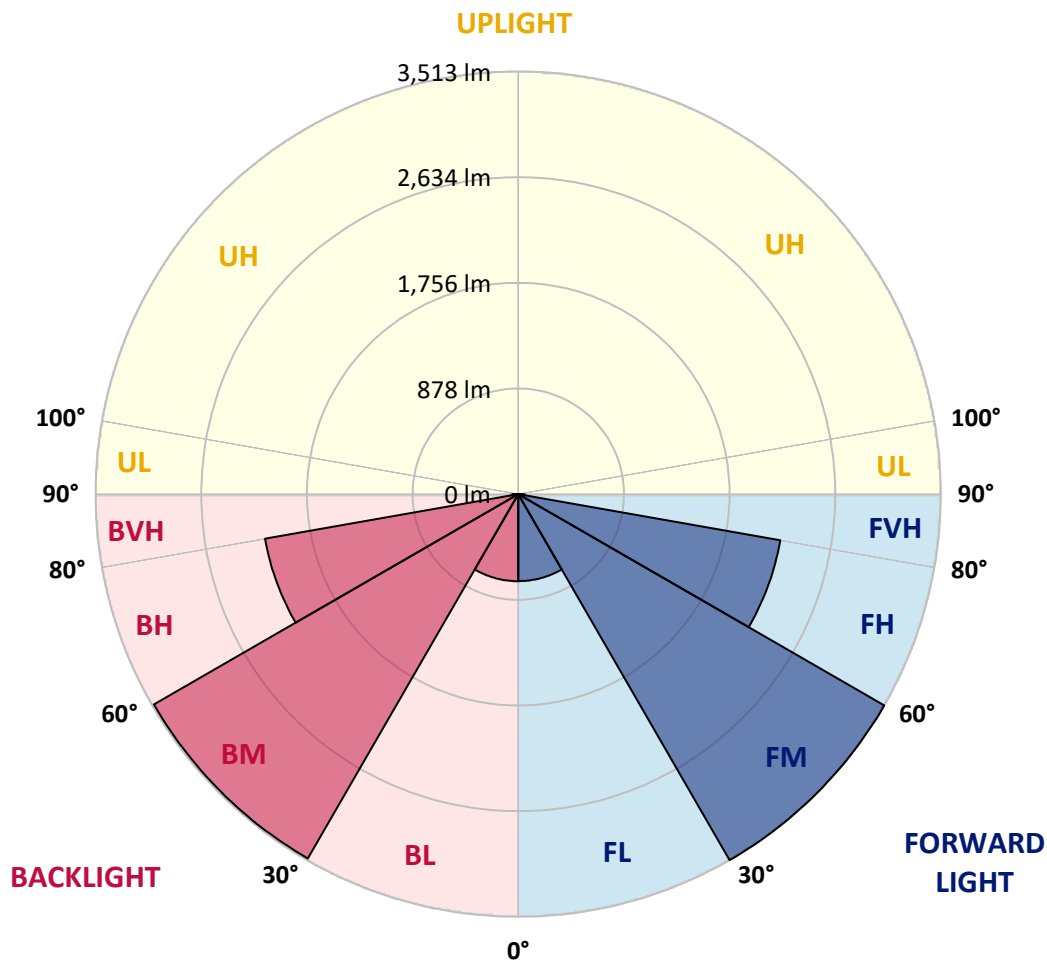
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.9	5.6			
FM (30°-60°)	3512.6	27.2			
FH (60°-80°)	2211.7	17.1			G2/5000
FVH (80°-90°)	51.1	0.4			G1/100
BL (0°-30°)	723.7	5.6	B2/1000		
BM (30°-60°)	3496.9	27.1	B3/5000		
BH (60°-80°)	2137.0	16.6	B3/2500		G3/2500
BVH (80°-90°)	48.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4
2.5°	1313.1	1313.1	1311.7	1318.6	1325.6	1328.4	1333.9	1335.3	1343.7	1336.7	1350.6
5°	1308.9	1307.5	1318.6	1335.3	1335.3	1353.4	1364.5	1379.9	1384.0	1392.4	1395.2
7.5°	1338.1	1335.3	1329.8	1347.9	1363.2	1391.0	1406.3	1432.7	1442.4	1453.6	1466.1
10°	1356.2	1356.2	1350.6	1382.6	1396.5	1434.1	1467.5	1493.9	1531.5	1544.0	1545.4
12.5°	1359.0	1363.2	1379.9	1421.6	1460.5	1509.2	1534.2	1584.3	1621.9	1645.5	1653.9
15°	1400.7	1392.4	1410.5	1467.5	1524.5	1567.6	1612.1	1648.3	1702.6	1733.2	1752.6
17.5°	1438.3	1429.9	1463.3	1531.5	1589.9	1656.7	1695.6	1734.6	1773.5	1801.3	1802.7
20°	1498.1	1505.0	1534.2	1608.0	1684.5	1742.9	1787.4	1794.4	1813.8	1854.2	1847.2
22.5°	1571.8	1566.2	1627.4	1708.1	1791.6	1840.3	1865.3	1847.2	1837.5	1880.6	1890.3
25°	1645.5	1662.2	1717.9	1793.0	1893.1	1958.5	1965.5	1915.4	1879.2	1894.5	1890.3
27.5°	1758.2	1761.0	1819.4	1908.4	2010.0	2067.0	2062.8	1991.9	1922.3	1923.7	1926.5
30°	1902.9	1888.9	1952.9	2033.6	2133.8	2185.2	2192.2	2090.6	1997.4	1969.6	1976.6
32.5°	2042.0	2058.6	2114.3	2206.1	2279.8	2309.0	2293.7	2203.3	2082.3	2044.7	2048.9
35°	2220.0	2217.2	2293.7	2371.6	2427.3	2432.8	2420.3	2288.2	2174.1	2125.4	2105.9
37.5°	2410.6	2435.6	2485.7	2549.7	2608.1	2610.9	2542.7	2437.0	2296.5	2215.8	2239.5
40°	2623.4	2651.2	2687.4	2780.6	2823.7	2779.2	2709.6	2566.4	2420.3	2349.4	2360.5
42.5°	2811.2	2823.7	2897.4	3007.3	3028.2	3008.7	2905.8	2731.9	2562.2	2484.3	2489.9
45°	2983.6	3000.3	3096.3	3195.1	3243.8	3210.4	3090.8	2925.2	2727.7	2660.9	2634.5
47.5°	3142.2	3175.6	3268.8	3370.3	3445.5	3448.2	3300.8	3100.5	2891.8	2804.2	2802.8
50°	3249.3	3298.0	3389.8	3505.3	3615.2	3658.3	3510.8	3295.2	3071.3	2978.1	2968.3
52.5°	3307.7	3357.8	3449.6	3629.1	3751.5	3818.2	3748.7	3477.4	3281.3	3183.9	3168.6
55°	3236.8	3270.2	3420.4	3672.2	3861.4	3971.2	3925.3	3729.2	3490.0	3410.7	3424.6
57.5°	2935.0	3004.5	3189.5	3503.9	3858.6	4128.4	4124.3	3967.1	3730.6	3655.5	3658.3
60°	2416.1	2474.6	2702.7	3142.2	3702.8	4192.4	4339.9	4198.0	4000.5	3912.8	3910.0
62.5°	1705.3	1779.1	2043.3	2523.2	3243.8	4103.4	4587.4	4488.7	4264.7	4200.8	4224.4
65°	954.2	998.7	1243.5	1677.5	2471.8	3613.8	4632.0	4790.5	4533.2	4435.8	4440.0
67.5°	510.5	527.2	641.2	880.5	1512.0	2786.1	4182.7	4964.4	4823.9	4655.6	4629.2
70°	350.5	356.1	385.3	450.7	715.0	1666.4	3154.7	4654.2	5042.3	4812.8	4857.3
72.5°	296.3	293.5	300.5	307.4	374.2	745.6	1851.4	3581.8	4759.9	4673.7	4657.0
75°	257.3	255.9	258.7	251.8	260.1	328.3	819.3	2232.5	3484.4	3889.2	3951.8
77.5°	212.8	214.2	215.6	208.6	205.9	217.0	329.7	980.6	1715.1	1893.1	2042.0
80°	161.4	164.1	175.3	168.3	157.2	158.6	194.7	328.3	492.4	446.5	460.4
82.5°	109.9	111.3	134.9	126.6	118.2	107.1	125.2	169.7	192.0	146.1	128.0
85°	77.9	76.5	87.6	80.7	75.1	54.2	75.1	96.0	115.5	72.3	65.4
87.5°	18.1	18.1	36.2	29.2	27.8	22.3	29.2	37.6	50.1	32.0	29.2
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4	1321.4
2.5°	1346.5	1333.9	1333.9	1331.2	1320.0	1317.3	1307.5	1310.3	1303.3	1296.4
5°	1393.8	1377.1	1377.1	1353.4	1331.2	1328.4	1317.3	1317.3	1306.1	1308.9
7.5°	1459.1	1443.8	1418.8	1397.9	1367.3	1354.8	1333.9	1331.2	1328.4	1322.8
10°	1537.0	1517.6	1492.5	1449.4	1424.4	1400.7	1379.9	1350.6	1343.7	1345.1
12.5°	1642.7	1612.1	1557.9	1520.3	1488.3	1457.7	1427.1	1384.0	1374.3	1378.5
15°	1717.9	1678.9	1624.7	1610.8	1567.6	1530.1	1480.0	1431.3	1414.6	1410.5
17.5°	1779.1	1747.1	1715.1	1694.2	1659.4	1613.5	1544.0	1488.3	1450.8	1446.6
20°	1829.1	1787.4	1780.5	1793.0	1749.9	1719.2	1634.4	1566.2	1516.2	1495.3
22.5°	1859.7	1833.3	1852.8	1863.9	1861.1	1809.7	1722.0	1642.7	1580.2	1560.7
25°	1893.1	1862.5	1932.1	1969.6	1979.4	1894.5	1826.4	1722.0	1660.8	1648.3
27.5°	1909.8	1920.9	2001.6	2080.9	2073.9	2008.6	1916.8	1823.6	1774.9	1752.6
30°	1958.5	1976.6	2099.0	2188.0	2189.4	2125.4	2055.9	1950.2	1895.9	1886.2
32.5°	2046.1	2068.4	2199.1	2293.7	2310.4	2261.7	2192.2	2126.8	2071.2	2048.9
35°	2112.9	2169.9	2317.4	2403.6	2448.1	2418.9	2380.0	2311.8	2253.4	2233.9
37.5°	2208.9	2288.2	2430.0	2546.9	2597.0	2594.2	2565.0	2491.2	2442.6	2425.9
40°	2346.6	2425.9	2555.2	2709.6	2802.8	2798.6	2782.0	2724.9	2652.6	2644.3
42.5°	2492.6	2558.0	2726.3	2903.0	3036.5	3022.6	2978.1	2911.3	2861.2	2850.1
45°	2634.5	2736.1	2891.8	3118.6	3218.7	3253.5	3200.6	3086.6	3029.6	3022.6
47.5°	2812.6	2893.2	3088.0	3291.1	3439.9	3445.5	3355.0	3249.3	3145.0	3167.3
50°	2971.1	3078.2	3275.8	3498.3	3676.4	3612.4	3496.9	3364.8	3289.7	3260.5
52.5°	3140.8	3271.6	3501.1	3727.8	3826.6	3762.6	3574.8	3427.4	3313.3	3300.8
55°	3388.4	3456.6	3757.0	3930.9	3962.9	3828.0	3551.2	3342.5	3195.1	3158.9
57.5°	3640.2	3719.5	3982.4	4132.6	4099.2	3791.8	3398.2	3075.5	2882.1	2830.6
60°	3894.7	3992.1	4213.3	4351.0	4178.5	3542.8	2965.6	2549.7	2324.3	2278.4
62.5°	4178.5	4305.1	4502.6	4551.3	3943.4	3050.4	2353.5	1840.3	1612.1	1535.6
65°	4430.3	4559.6	4803.0	4509.6	3444.1	2275.6	1521.7	1051.6	883.3	822.1
67.5°	4637.5	4783.6	4903.2	3990.7	2521.8	1332.6	792.9	553.6	491.0	468.8
70°	4801.7	5045.1	4485.9	2933.6	1441.1	649.6	428.4	364.4	356.1	350.5
72.5°	4658.4	4626.4	3349.5	1692.8	631.5	357.5	310.2	300.5	299.1	300.5
75°	3809.9	3398.2	2003.0	735.8	317.1	258.7	257.3	253.2	260.1	260.1
77.5°	1848.6	1616.3	837.4	315.8	208.6	203.1	210.0	210.0	210.0	210.0
80°	428.4	474.3	299.1	192.0	151.6	151.6	166.9	168.3	161.4	158.6
82.5°	146.1	194.7	164.1	121.0	100.2	112.7	126.6	129.4	107.1	108.5
85°	72.3	114.1	89.0	69.5	51.5	69.5	82.1	86.2	73.7	70.9
87.5°	33.4	50.1	33.4	23.6	18.1	25.0	23.6	19.5	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)