

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: P481433

Luminaire Tested: **IFLD-S-SA3B-830-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481433  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-830-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

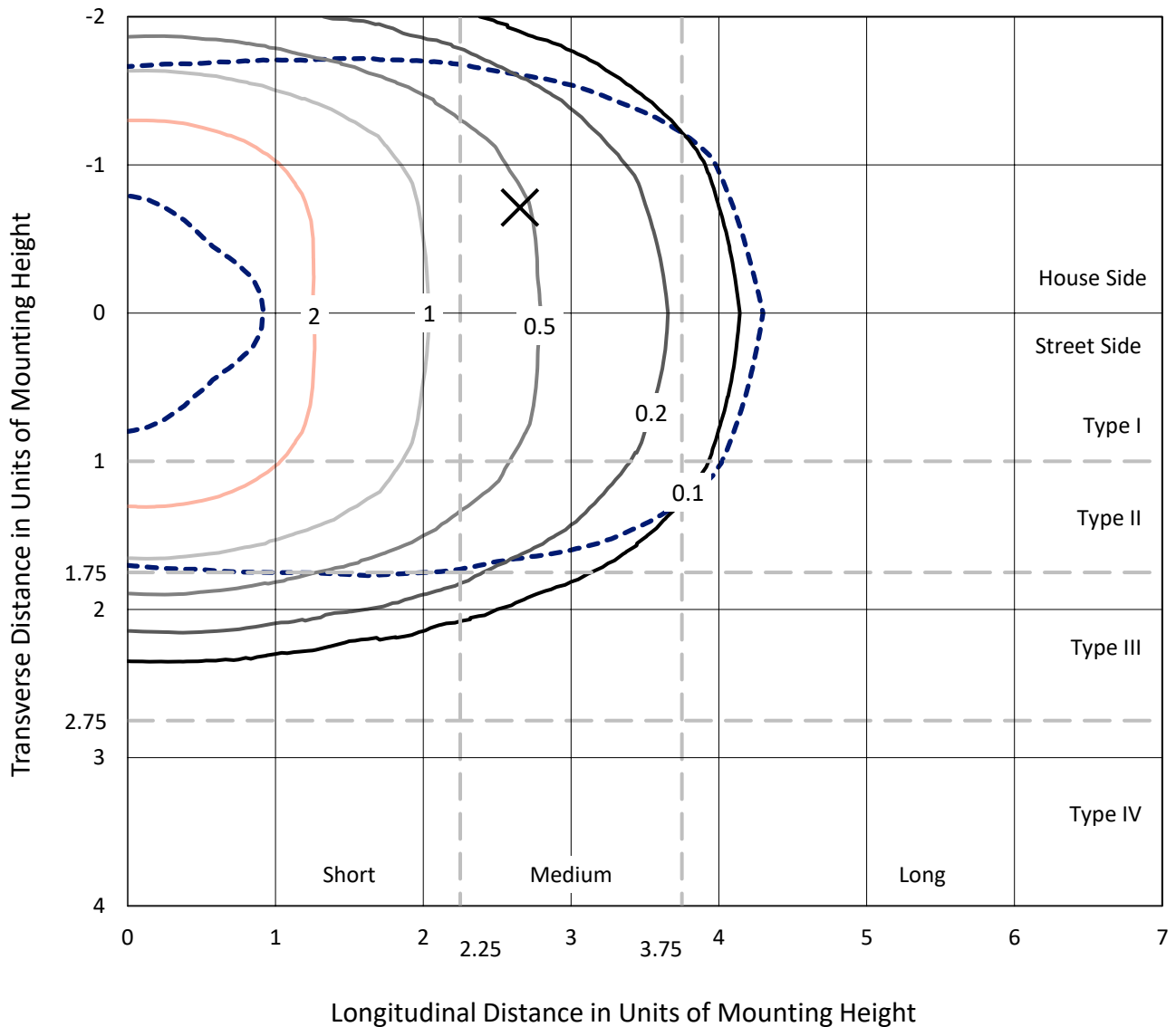
Lumens per Lamp: N/A  
Luminaire Lumens: 13926.8 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.4  
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

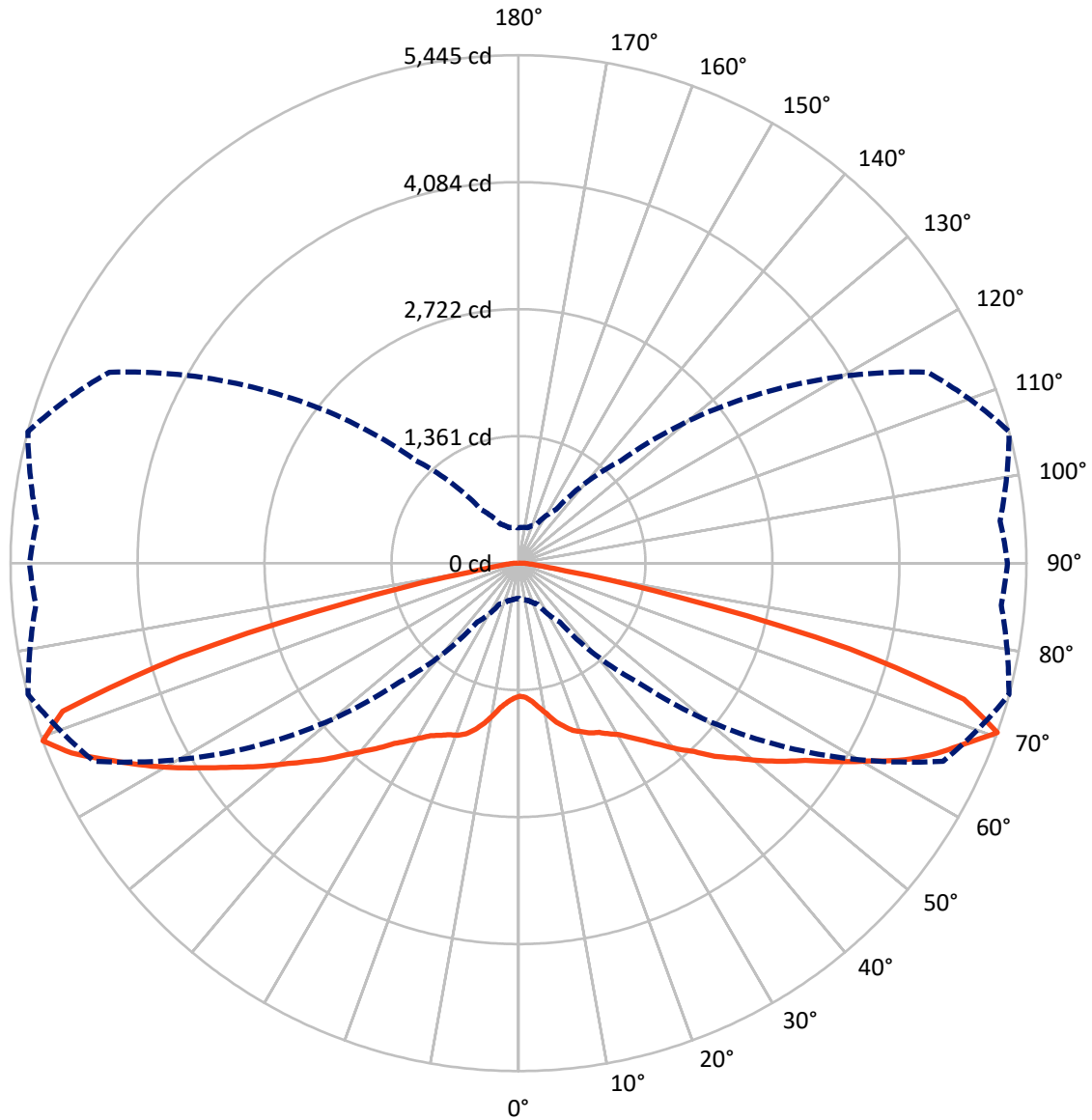
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 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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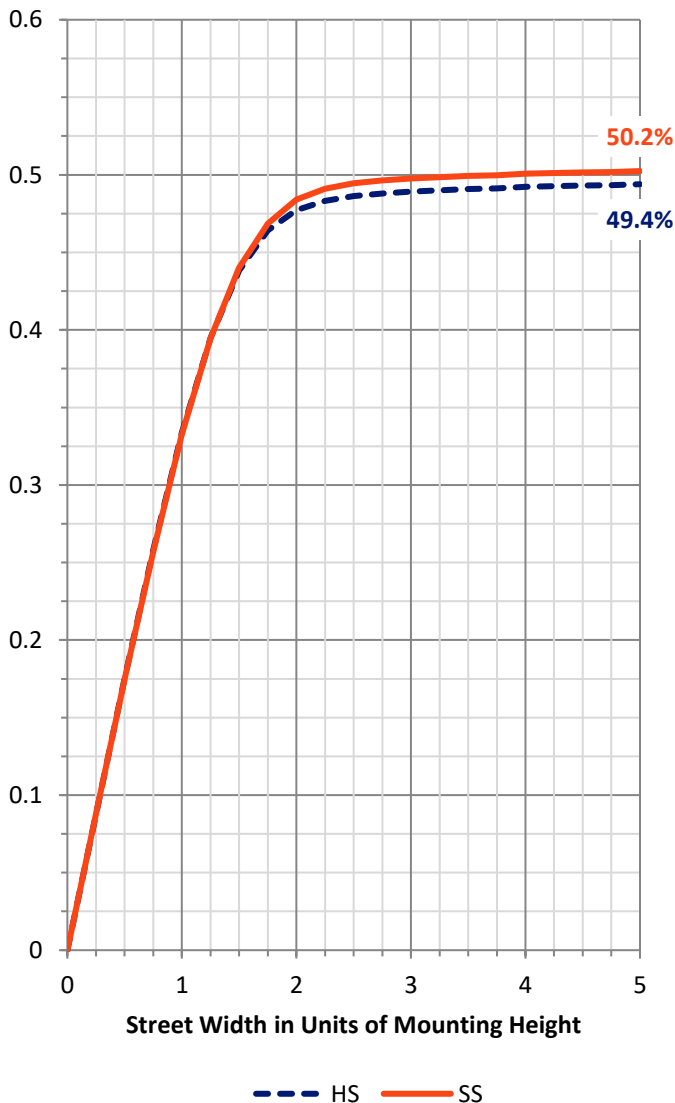
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6913.9	0.0	6913.9
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	7012.9	0.0	7012.9
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	13926.8	0.0	13926.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.9	1.0
10°-20°	483.3	3.5
20°-30°	935.8	6.7
30°-40°	1582.9	11.4
40°-50°	2525.2	18.1
50°-60°	3456.5	24.8
60°-70°	3257.9	23.4
70°-80°	1435.2	10.3
80°-90°	108.0	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°	13926.8	100.0
0°-180°	13926.8	100.0



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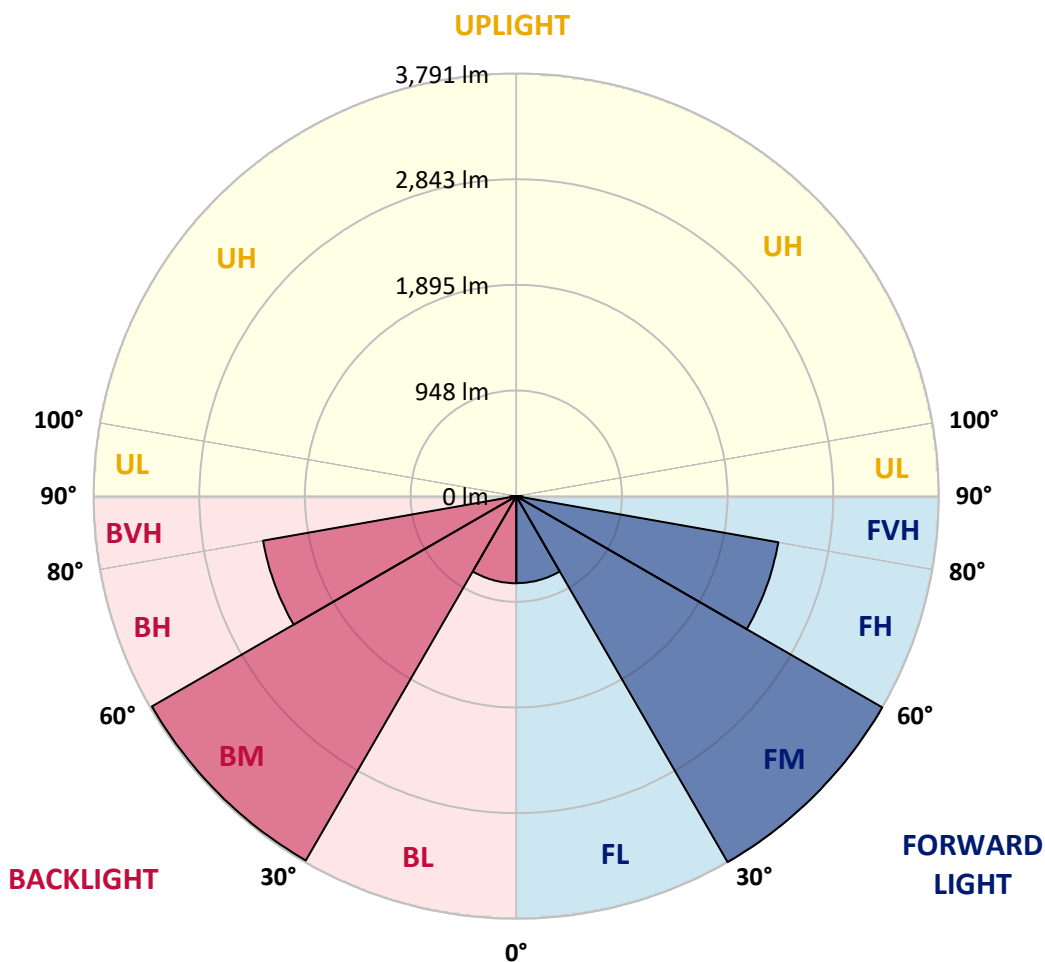
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	780.1	5.6			
FM (30°-60°)	3790.8	27.2			
FH (60°-80°)	2386.9	17.1			G2/5000
FVH (80°-90°)	55.2	0.4			G1/100
BL (0°-30°)	781.0	5.6	B2/1000		
BM (30°-60°)	3773.8	27.1	B3/5000		
BH (60°-80°)	2306.3	16.6	B3/2500		G3/2500
BVH (80°-90°)	52.8	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°	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1
2.5°	1417.1	1417.1	1415.6	1423.1	1430.6	1433.6	1439.6	1441.1	1450.1	1442.6	1457.6
5°	1412.6	1411.1	1423.1	1441.1	1441.1	1460.6	1472.6	1489.1	1493.6	1502.6	1505.7
7.5°	1444.1	1441.1	1435.1	1454.6	1471.1	1501.1	1517.7	1546.2	1556.7	1568.7	1582.2
10°	1463.6	1463.6	1457.6	1492.1	1507.2	1547.7	1583.7	1612.2	1652.8	1666.3	1667.8
12.5°	1466.6	1471.1	1489.1	1534.2	1576.2	1628.7	1655.8	1709.8	1750.3	1775.9	1784.9
15°	1511.7	1502.6	1522.2	1583.7	1645.3	1691.8	1739.8	1778.9	1837.4	1870.4	1891.4
17.5°	1552.2	1543.2	1579.2	1652.8	1715.8	1787.9	1829.9	1871.9	1914.0	1944.0	1945.5
20°	1616.7	1624.2	1655.8	1735.3	1817.9	1880.9	1929.0	1936.5	1957.5	2001.0	1993.5
22.5°	1696.3	1690.3	1756.3	1843.4	1933.5	1986.0	2013.0	1993.5	1983.0	2029.6	2040.1
25°	1775.9	1793.9	1853.9	1935.0	2043.1	2113.6	2121.1	2067.1	2028.1	2044.6	2040.1
27.5°	1897.5	1900.5	1963.5	2059.6	2169.2	2230.7	2226.2	2149.6	2074.6	2076.1	2079.1
30°	2053.6	2038.6	2107.6	2194.7	2302.8	2358.3	2365.8	2256.2	2155.6	2125.6	2133.1
32.5°	2203.7	2221.7	2281.7	2380.8	2460.4	2491.9	2475.4	2377.8	2247.2	2206.7	2211.2
35°	2395.8	2392.8	2475.4	2559.5	2619.5	2625.5	2612.0	2469.4	2346.3	2293.8	2272.7
37.5°	2601.5	2628.5	2682.6	2751.6	2814.7	2817.7	2744.1	2630.0	2478.4	2391.3	2416.8
40°	2831.2	2861.2	2900.2	3000.8	3047.3	2999.3	2924.2	2769.6	2612.0	2535.4	2547.4
42.5°	3033.8	3047.3	3126.9	3245.5	3268.0	3247.0	3135.9	2948.3	2765.1	2681.1	2687.1
45°	3220.0	3238.0	3341.6	3448.1	3500.7	3464.6	3335.6	3156.9	2943.8	2871.7	2843.2
47.5°	3391.1	3427.1	3527.7	3637.3	3718.3	3721.3	3562.2	3346.1	3120.9	3026.3	3024.8
50°	3506.7	3559.2	3658.3	3782.9	3901.5	3948.0	3788.9	3556.2	3314.5	3214.0	3203.4
52.5°	3569.7	3623.8	3722.8	3916.5	4048.6	4120.7	4045.6	3752.9	3541.2	3436.1	3419.6
55°	3493.2	3529.2	3691.3	3963.0	4167.2	4285.8	4236.2	4024.6	3766.4	3680.8	3695.8
57.5°	3167.4	3242.5	3442.1	3781.4	4164.2	4455.4	4450.9	4281.3	4026.1	3945.0	3948.0
60°	2607.5	2670.5	2916.7	3391.1	3996.1	4524.5	4683.6	4530.5	4317.3	4222.7	4219.7
62.5°	1840.4	1920.0	2205.2	2723.1	3500.7	4428.4	4950.8	4844.2	4602.5	4533.5	4559.0
65°	1029.8	1077.8	1342.0	1810.4	2667.5	3900.0	4998.8	5170.0	4892.2	4787.2	4791.7
67.5°	550.9	568.9	692.0	950.2	1631.7	3006.8	4514.0	5357.6	5206.0	5024.3	4995.8
70°	378.3	384.3	415.8	486.4	771.6	1798.4	3404.6	5022.8	5441.7	5194.0	5242.0
72.5°	319.7	316.7	324.2	331.8	403.8	804.6	1998.0	3865.5	5136.9	5043.9	5025.8
75°	277.7	276.2	279.2	271.7	280.7	354.3	884.2	2409.3	3760.4	4197.2	4264.8
77.5°	229.7	231.2	232.7	225.2	222.2	234.2	355.8	1058.3	1850.9	2043.1	2203.7
80°	174.1	177.1	189.1	181.6	169.6	171.1	210.2	354.3	531.4	481.9	496.9
82.5°	118.6	120.1	145.6	136.6	127.6	115.6	135.1	183.1	207.2	157.6	138.1
85°	84.1	82.6	94.6	87.1	81.1	58.5	81.1	103.6	124.6	78.1	70.6
87.5°	19.5	19.5	39.0	31.5	30.0	24.0	31.5	40.5	54.0	34.5	31.5
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°	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1	1426.1
2.5°	1453.1	1439.6	1439.6	1436.6	1424.6	1421.6	1411.1	1414.1	1406.6	1399.1
5°	1504.2	1486.1	1486.1	1460.6	1436.6	1433.6	1421.6	1421.6	1409.6	1412.6
7.5°	1574.7	1558.2	1531.2	1508.7	1475.6	1462.1	1439.6	1436.6	1433.6	1427.6
10°	1658.8	1637.8	1610.7	1564.2	1537.2	1511.7	1489.1	1457.6	1450.1	1451.6
12.5°	1772.9	1739.8	1681.3	1640.8	1606.2	1573.2	1540.2	1493.6	1483.1	1487.6
15°	1853.9	1811.9	1753.3	1738.3	1691.8	1651.3	1597.2	1544.7	1526.7	1522.2
17.5°	1920.0	1885.4	1850.9	1828.4	1790.9	1741.3	1666.3	1606.2	1565.7	1561.2
20°	1974.0	1929.0	1921.5	1935.0	1888.4	1855.4	1763.8	1690.3	1636.3	1613.7
22.5°	2007.0	1978.5	1999.5	2011.5	2008.5	1953.0	1858.4	1772.9	1705.3	1684.3
25°	2043.1	2010.0	2085.1	2125.6	2136.1	2044.6	1971.0	1858.4	1792.4	1778.9
27.5°	2061.1	2073.1	2160.2	2245.7	2238.2	2167.7	2068.6	1968.0	1915.5	1891.4
30°	2113.6	2133.1	2265.2	2361.3	2362.8	2293.8	2218.7	2104.6	2046.1	2035.6
32.5°	2208.2	2232.2	2373.3	2475.4	2493.4	2440.9	2365.8	2295.3	2235.2	2211.2
35°	2280.2	2341.8	2500.9	2594.0	2642.0	2610.5	2568.5	2494.9	2431.9	2410.8
37.5°	2383.8	2469.4	2622.5	2748.6	2802.6	2799.6	2768.1	2688.6	2636.0	2618.0
40°	2532.4	2618.0	2757.6	2924.2	3024.8	3020.3	3002.3	2940.7	2862.7	2853.7
42.5°	2690.1	2760.6	2942.2	3132.9	3277.0	3262.0	3214.0	3141.9	3087.9	3075.9
45°	2843.2	2952.8	3120.9	3365.6	3473.7	3511.2	3454.1	3331.0	3269.5	3262.0
47.5°	3035.3	3122.4	3332.5	3551.7	3712.3	3718.3	3620.8	3506.7	3394.1	3418.1
50°	3206.5	3322.0	3535.2	3775.4	3967.5	3898.5	3773.9	3631.3	3550.2	3518.7
52.5°	3389.6	3530.7	3778.4	4023.1	4129.7	4060.6	3858.0	3698.8	3575.7	3562.2
55°	3656.8	3730.4	4054.6	4242.2	4276.8	4131.2	3832.4	3607.3	3448.1	3409.1
57.5°	3928.5	4014.1	4297.8	4459.9	4423.9	4092.1	3667.3	3319.0	3110.4	3054.8
60°	4203.2	4308.3	4547.0	4695.6	4509.4	3823.4	3200.4	2751.6	2508.4	2458.9
62.5°	4509.4	4646.1	4859.2	4911.8	4255.8	3292.0	2539.9	1986.0	1739.8	1657.3
65°	4781.2	4920.8	5183.5	4866.7	3716.8	2455.9	1642.3	1134.9	953.2	887.2
67.5°	5004.8	5162.4	5291.5	4306.8	2721.6	1438.1	855.7	597.5	529.9	505.9
70°	5182.0	5444.7	4841.2	3165.9	1555.2	701.0	462.4	393.3	384.3	378.3
72.5°	5027.3	4992.8	3614.8	1826.9	681.5	385.8	334.8	324.2	322.7	324.2
75°	4111.6	3667.3	2161.7	794.1	342.3	279.2	277.7	273.2	280.7	280.7
77.5°	1995.0	1744.3	903.7	340.8	225.2	219.2	226.7	226.7	226.7	226.7
80°	462.4	511.9	322.7	207.2	163.6	163.6	180.1	181.6	174.1	171.1
82.5°	157.6	210.2	177.1	130.6	108.1	121.6	136.6	139.6	115.6	117.1
85°	78.1	123.1	96.1	75.1	55.5	75.1	88.6	93.1	79.6	76.6
87.5°	36.0	54.0	36.0	25.5	19.5	27.0	25.5	21.0	12.0	12.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)