

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: P479285

Luminaire Tested: **IFLD-S-SA2D-735-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479285  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-735-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

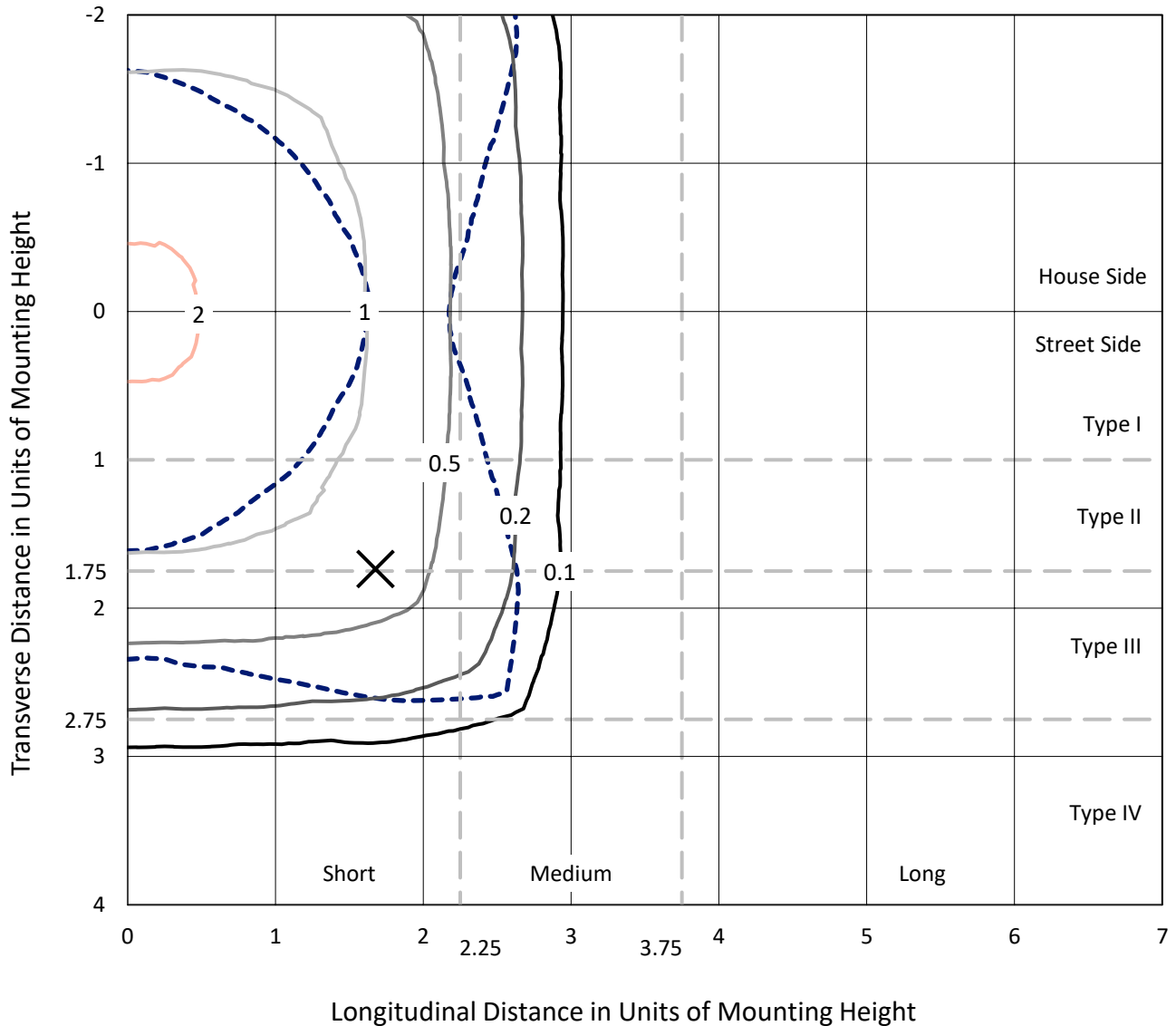
Lumens per Lamp: N/A  
Luminaire Lumens: 15570.4 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 123.9  
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

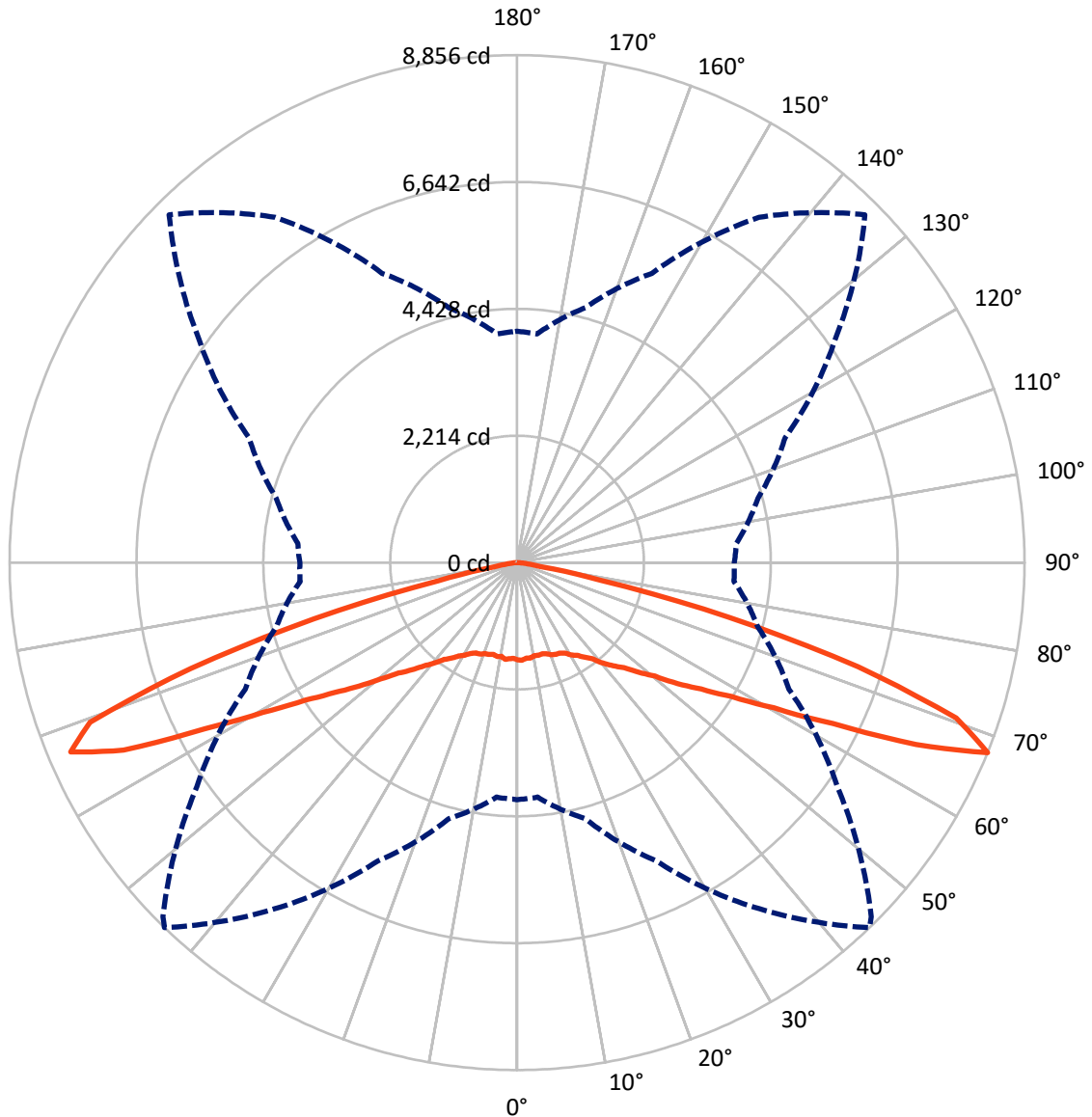
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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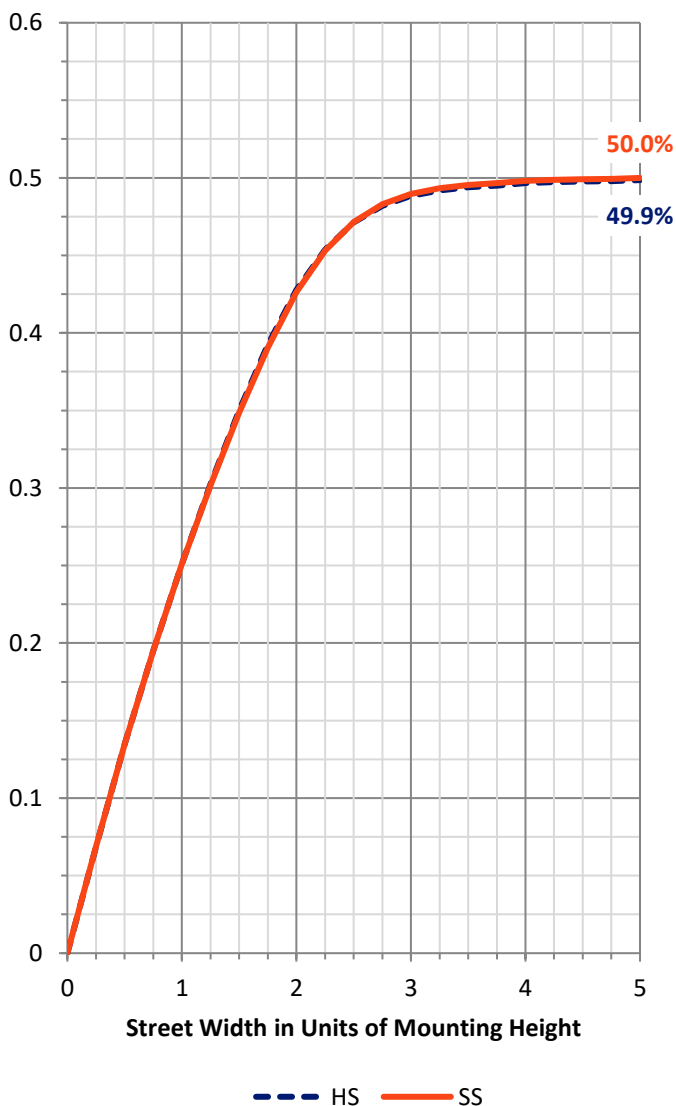
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7765.3	0.0	7765.3
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	7805.1	0.0	7805.1
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	15570.4	0.0	15570.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.9	1.0
10°-20°	470.2	3.0
20°-30°	799.6	5.1
30°-40°	1267.8	8.1
40°-50°	2067.3	13.3
50°-60°	3530.6	22.7
60°-70°	5370.0	34.5
70°-80°	1810.0	11.6
80°-90°	94.0	0.6
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°	15570.4	100.0
0°-180°	15570.4	100.0

**Coefficient of Utilization**



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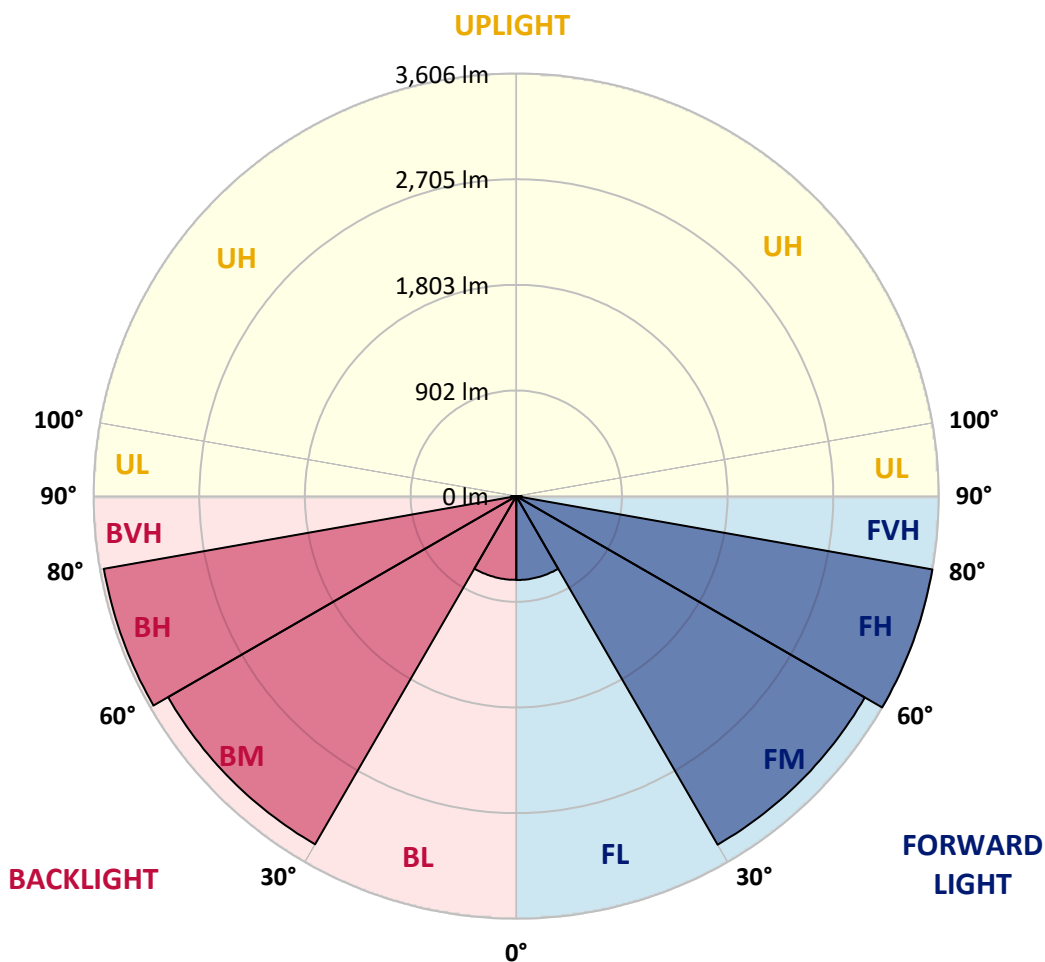
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	716.1	4.6			
FM (30°-60°)	3434.7	22.1			
FH (60°-80°)	3606.3	23.2			G2/5000
FVH (80°-90°)	48.1	0.3			G1/100
BL (0°-30°)	714.6	4.6	B2/1000		
BM (30°-60°)	3431.0	22.0	B3/5000		
BH (60°-80°)	3573.8	23.0	B4/5000		G2/5000
BVH (80°-90°)	45.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1700.8	1700.8	1700.8	1700.8	1700.8	1700.8	1700.8	1700.8	1700.8	1700.8	1700.8
2.5°	1661.7	1681.2	1695.5	1693.7	1699.0	1704.4	1697.2	1707.9	1700.8	1713.2	1720.3
5°	1693.7	1688.4	1690.1	1679.5	1704.4	1675.9	1675.9	1690.1	1707.9	1686.6	1699.0
7.5°	1674.1	1670.6	1661.7	1677.7	1683.0	1683.0	1697.2	1670.6	1700.8	1707.9	1709.7
10°	1652.8	1633.3	1659.9	1675.9	1679.5	1651.0	1663.5	1670.6	1661.7	1670.6	1675.9
12.5°	1635.0	1645.7	1645.7	1645.7	1640.4	1659.9	1672.4	1670.6	1652.8	1668.8	1640.4
15°	1633.3	1627.9	1643.9	1658.1	1649.3	1652.8	1658.1	1674.1	1640.4	1647.5	1647.5
17.5°	1631.5	1638.6	1643.9	1642.1	1672.4	1672.4	1667.0	1656.4	1683.0	1668.8	1649.3
20°	1638.6	1633.3	1647.5	1652.8	1674.1	1716.8	1700.8	1691.9	1677.7	1659.9	1659.9
22.5°	1647.5	1643.9	1663.5	1686.6	1727.5	1738.1	1736.3	1725.7	1700.8	1679.5	1675.9
25°	1679.5	1647.5	1668.8	1713.2	1727.5	1748.8	1763.0	1748.8	1715.0	1720.3	1688.4
27.5°	1727.5	1722.1	1750.6	1780.8	1768.3	1787.9	1775.4	1786.1	1787.9	1761.2	1729.2
30°	1784.3	1768.3	1786.1	1844.8	1850.1	1871.4	1850.1	1821.6	1830.5	1807.4	1791.4
32.5°	1866.1	1860.7	1894.5	1933.6	1940.7	1930.1	1919.4	1935.4	1898.1	1880.3	1851.9
35°	1919.4	1942.5	1983.4	2013.6	2036.7	2026.0	2031.4	2015.4	2024.3	1986.9	1974.5
37.5°	2077.6	2068.7	2077.6	2129.1	2134.4	2129.1	2134.4	2152.2	2139.8	2107.8	2075.8
40°	2226.9	2212.6	2234.0	2292.6	2289.1	2306.8	2271.3	2290.8	2290.8	2230.4	2218.0
42.5°	2338.8	2386.8	2411.7	2459.7	2477.4	2461.4	2454.3	2457.9	2497.0	2425.9	2399.2
45°	2569.9	2568.1	2642.7	2669.4	2619.6	2616.1	2601.8	2644.5	2671.2	2630.3	2619.6
47.5°	2820.4	2832.9	2875.5	2886.2	2916.4	2861.3	2861.3	2866.7	2960.8	2864.9	2815.1
50°	3046.2	3062.1	3147.5	3231.0	3174.1	3115.5	3138.6	3167.0	3218.5	3127.9	3085.2
52.5°	3319.8	3406.9	3463.8	3508.2	3549.1	3508.2	3454.9	3486.9	3588.2	3467.4	3414.0
55°	3714.4	3783.7	3837.0	3918.8	3952.5	3897.4	3892.1	3888.6	3945.4	3817.5	3744.6
57.5°	4155.1	4126.7	4212.0	4338.2	4460.8	4407.5	4391.5	4395.1	4409.3	4228.0	4172.9
60°	4702.5	4734.5	4835.8	4946.0	5075.7	5150.4	5045.5	4985.1	4997.5	4750.5	4665.2
62.5°	5015.3	5086.4	5315.7	5694.2	5955.5	6188.3	6204.3	5811.5	5548.5	5068.6	4706.1
65°	4864.2	4853.6	5285.4	5985.7	6975.6	7652.7	7551.4	6598.8	5680.0	4917.6	4430.6
67.5°	4137.4	4108.9	4631.4	5742.2	7377.2	8855.9	8740.4	6821.0	5235.7	4350.6	3799.7
70°	2665.8	2658.7	3225.6	4377.3	6586.4	8130.8	8173.4	6195.4	4261.8	3186.6	2640.9
72.5°	968.6	1027.2	1356.0	2353.0	4473.3	6220.3	6246.9	4587.0	2450.8	1473.3	1085.9
75°	357.2	367.9	428.3	764.2	2038.5	3819.2	3918.8	2225.1	870.8	479.8	391.0
77.5°	206.2	207.9	229.3	284.4	604.3	1491.1	1551.5	675.3	337.7	255.9	236.4
80°	140.4	138.6	161.7	184.8	241.7	423.0	449.6	282.6	213.3	177.7	149.3
82.5°	81.8	87.1	119.1	131.5	147.5	186.6	190.2	175.9	159.9	131.5	97.7
85°	49.8	40.9	65.8	72.9	85.3	83.5	83.5	96.0	103.1	92.4	55.1
87.5°	12.4	12.4	16.0	17.8	23.1	17.8	19.5	37.3	49.8	46.2	28.4
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°	1700.8	1700.8	1700.8	1700.8	1700.8	1700.8	1700.8	1700.8	1700.8	1700.8	1700.8
2.5°	1704.4	1699.0	1702.6	1722.1	1709.7	1672.4	1681.2	1700.8	1684.8	1675.9	1674.1
5°	1697.2	1707.9	1695.5	1699.0	1711.5	1681.2	1686.6	1711.5	1700.8	1704.4	1684.8
7.5°	1699.0	1704.4	1693.7	1677.7	1677.7	1702.6	1688.4	1691.9	1675.9	1702.6	1667.0
10°	1688.4	1674.1	1661.7	1670.6	1667.0	1659.9	1654.6	1665.3	1649.3	1672.4	1647.5
12.5°	1656.4	1659.9	1656.4	1652.8	1659.9	1677.7	1649.3	1652.8	1627.9	1631.5	1643.9
15°	1643.9	1654.6	1651.0	1670.6	1679.5	1652.8	1674.1	1652.8	1633.3	1622.6	1642.1
17.5°	1649.3	1665.3	1659.9	1674.1	1658.1	1677.7	1681.2	1672.4	1649.3	1640.4	1649.3
20°	1654.6	1649.3	1656.4	1681.2	1704.4	1684.8	1684.8	1679.5	1658.1	1645.7	1645.7
22.5°	1667.0	1658.1	1668.8	1688.4	1695.5	1725.7	1699.0	1686.6	1651.0	1619.0	1649.3
25°	1691.9	1697.2	1704.4	1697.2	1736.3	1732.8	1729.2	1720.3	1665.3	1667.0	1661.7
27.5°	1739.9	1709.7	1718.6	1761.2	1766.6	1780.8	1763.0	1779.0	1720.3	1722.1	1686.6
30°	1798.5	1766.6	1795.0	1832.3	1830.5	1857.2	1848.3	1851.9	1811.0	1787.9	1739.9
32.5°	1862.5	1859.0	1876.7	1899.8	1908.7	1922.9	1921.2	1921.2	1896.3	1835.9	1844.8
35°	1933.6	1958.5	1979.8	2004.7	2008.3	2026.0	2001.1	2004.7	1979.8	1935.4	1949.6
37.5°	2074.0	2072.2	2095.3	2125.6	2129.1	2114.9	2134.4	2125.6	2091.8	2061.6	2038.5
40°	2237.5	2202.0	2223.3	2294.4	2299.7	2274.8	2273.1	2271.3	2246.4	2180.6	2166.4
42.5°	2379.7	2425.9	2422.3	2445.5	2429.5	2417.0	2461.4	2436.6	2417.0	2347.7	2335.3
45°	2562.7	2577.0	2623.2	2697.8	2621.4	2621.4	2651.6	2632.1	2621.4	2569.9	2521.9
47.5°	2790.2	2802.7	2895.1	2900.4	2850.7	2816.9	2911.1	2914.6	2870.2	2831.1	2772.5
50°	3056.8	3062.1	3145.7	3231.0	3175.9	3111.9	3207.9	3245.2	3145.7	3092.4	3019.5
52.5°	3350.1	3334.1	3403.4	3563.3	3510.0	3490.5	3593.5	3602.4	3467.4	3383.8	3403.4
55°	3687.7	3666.4	3854.8	3963.2	3929.4	3893.9	3940.1	3961.4	3853.0	3716.2	3764.1
57.5°	4124.9	4135.6	4229.8	4336.4	4391.5	4400.4	4421.7	4400.4	4290.2	4151.6	4107.1
60°	4562.1	4594.1	4777.2	4978.0	4995.8	5152.2	5123.7	5017.1	4860.7	4663.4	4672.3
62.5°	4723.8	4697.2	4992.2	5482.7	5900.4	6186.5	6060.3	5681.8	5319.2	4960.2	4986.9
65°	4398.6	4464.4	4866.0	5633.8	6540.2	7672.2	7000.5	5953.7	5221.5	4757.6	4706.1
67.5°	3790.8	3840.6	4350.6	5161.0	6769.4	8585.7	7355.9	5569.8	4604.8	4004.1	4036.1
70°	2640.9	2665.8	3165.2	4228.0	6138.5	8102.3	6636.1	4277.8	3179.4	2534.3	2569.9
72.5°	1062.8	1123.2	1452.0	2546.8	4531.9	6156.3	4467.9	2244.6	1318.7	981.0	890.4
75°	392.8	394.5	463.9	876.2	2152.2	3869.0	2015.4	721.6	421.2	344.8	328.8
77.5°	227.5	225.7	241.7	316.3	623.8	1510.6	572.3	282.6	229.3	206.2	197.3
80°	142.2	140.4	165.3	209.7	273.7	414.1	241.7	175.9	154.6	133.3	133.3
82.5°	90.6	92.4	129.7	154.6	167.1	183.1	140.4	124.4	115.5	76.4	74.6
85°	58.6	53.3	90.6	103.1	92.4	81.8	78.2	65.8	60.4	37.3	40.9
87.5°	26.7	28.4	46.2	51.5	33.8	19.5	19.5	14.2	14.2	8.9	8.9
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)