

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: P479246

Luminaire Tested: **IFLD-S-SA2D-730-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479246  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-730-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

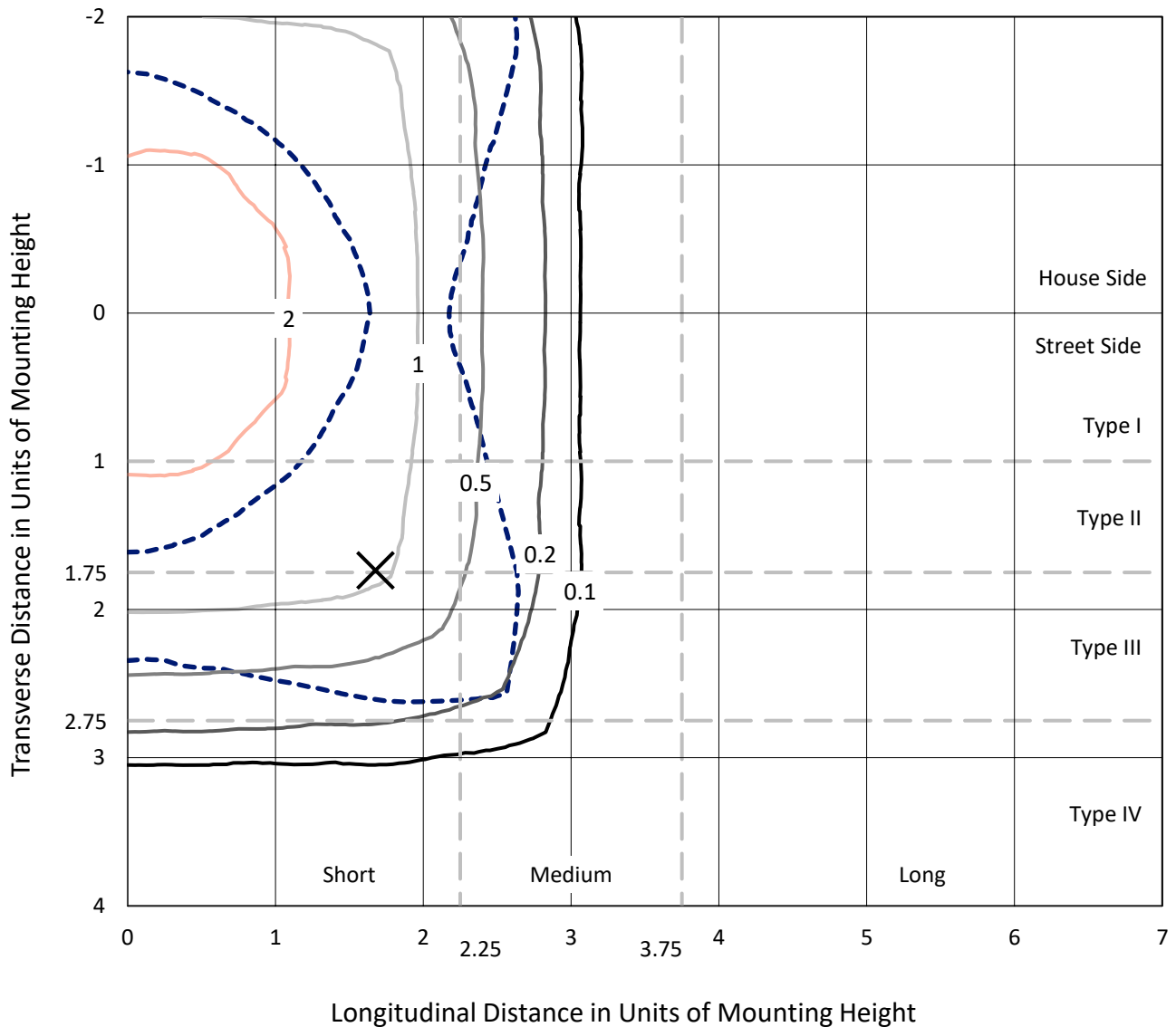
Lumens per Lamp: N/A  
Luminaire Lumens: 14375.3 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

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

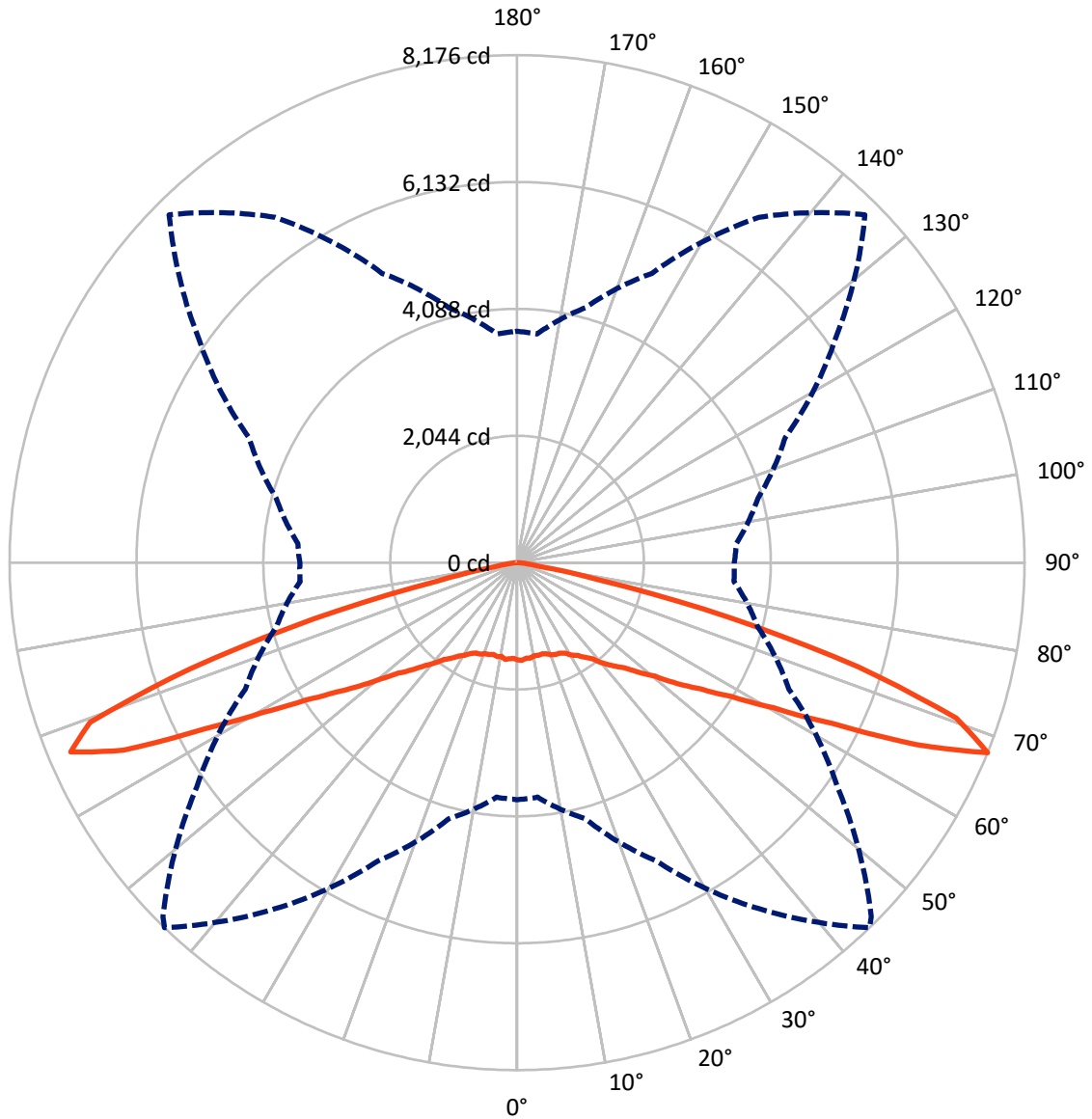
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 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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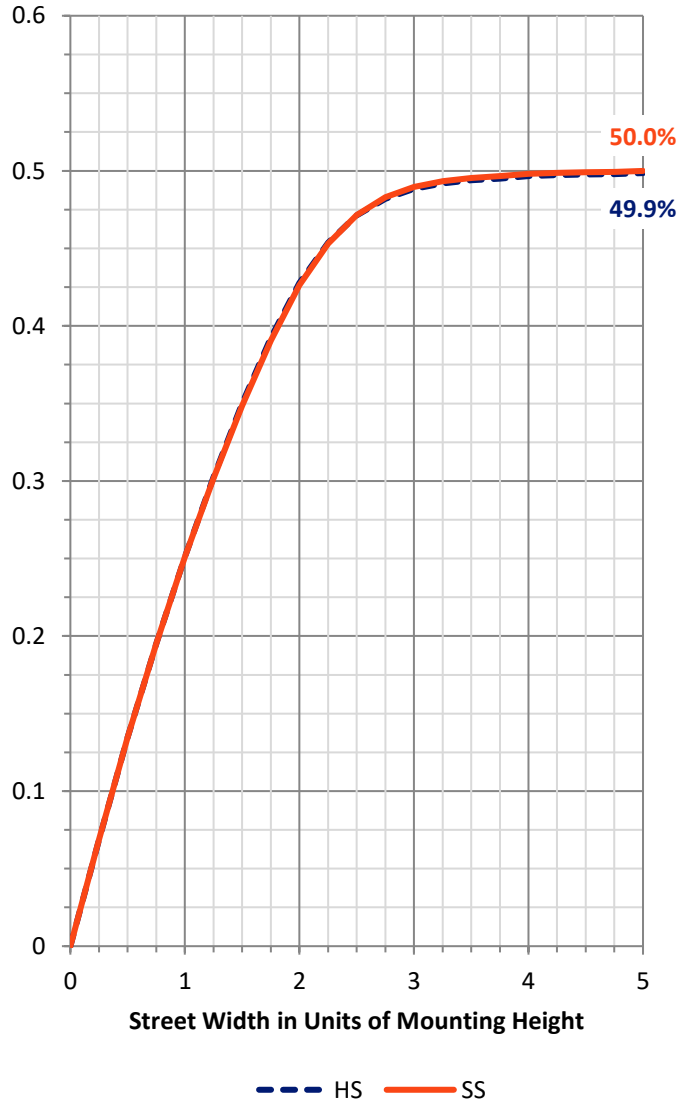
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7169.3	0.0	7169.3
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	7206.1	0.0	7206.1
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	14375.3	0.0	14375.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.6	1.0
10°-20°	434.1	3.0
20°-30°	738.2	5.1
30°-40°	1170.5	8.1
40°-50°	1908.6	13.3
50°-60°	3259.6	22.7
60°-70°	4957.8	34.5
70°-80°	1671.1	11.6
80°-90°	86.8	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°	14375.3	100.0
0°-180°	14375.3	100.0

**Coefficient of Utilization**



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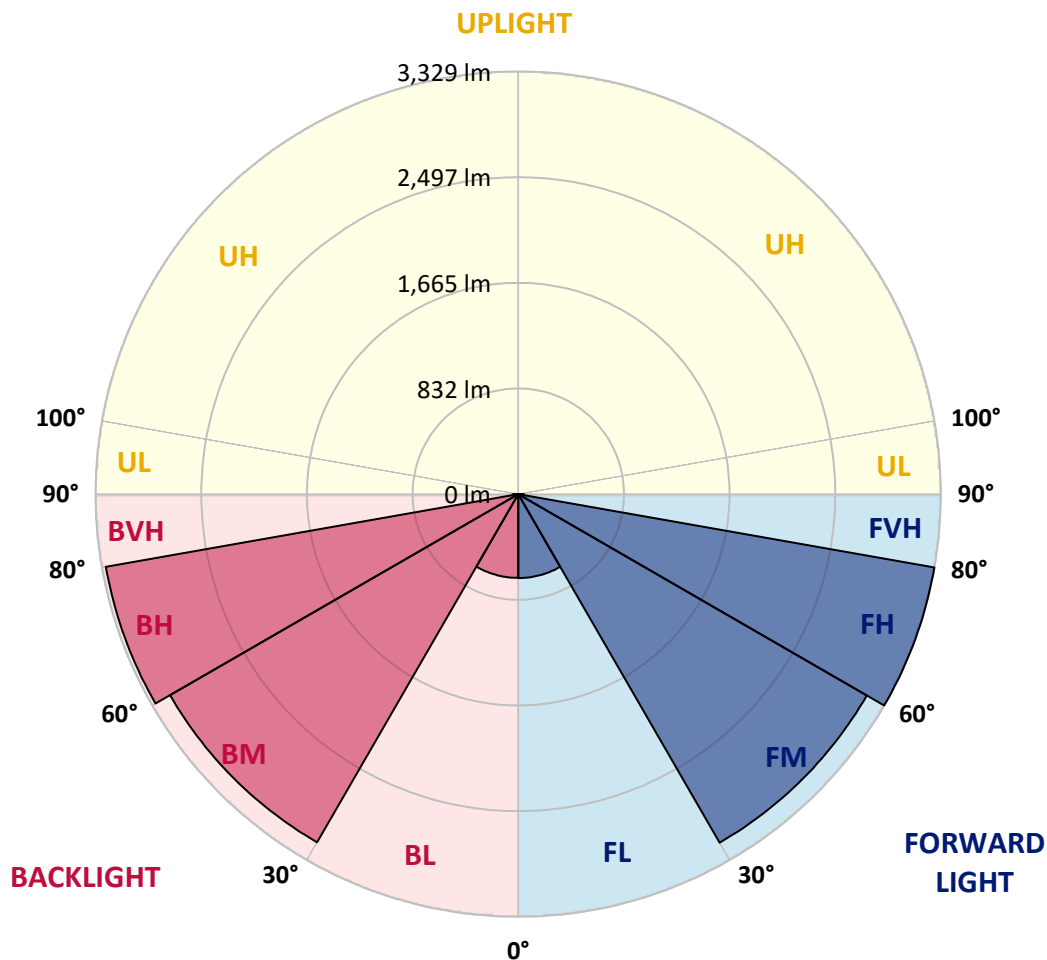
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	661.1	4.6			
FM (30°-60°)	3171.1	22.1			
FH (60°-80°)	3329.5	23.2			G2/5000
FVH (80°-90°)	44.4	0.3			G1/100
BL (0°-30°)	659.8	4.6	B2/1000		
BM (30°-60°)	3167.6	22.0	B3/5000		
BH (60°-80°)	3299.5	23.0	B4/5000		G2/5000
BVH (80°-90°)	42.4	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°	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3
2.5°	1534.2	1552.2	1565.3	1563.7	1568.6	1573.5	1567.0	1576.8	1570.3	1581.7	1588.3
5°	1563.7	1558.8	1560.4	1550.6	1573.5	1547.3	1547.3	1560.4	1576.8	1557.1	1568.6
7.5°	1545.6	1542.4	1534.2	1548.9	1553.9	1553.9	1567.0	1542.4	1570.3	1576.8	1578.5
10°	1526.0	1507.9	1532.5	1547.3	1550.6	1524.3	1535.8	1542.4	1534.2	1542.4	1547.3
12.5°	1509.5	1519.4	1519.4	1519.4	1514.5	1532.5	1544.0	1542.4	1526.0	1540.7	1514.5
15°	1507.9	1503.0	1517.8	1530.9	1522.7	1526.0	1530.9	1545.6	1514.5	1521.0	1521.0
17.5°	1506.3	1512.8	1517.8	1516.1	1544.0	1544.0	1539.1	1529.2	1553.9	1540.7	1522.7
20°	1512.8	1507.9	1521.0	1526.0	1545.6	1585.0	1570.3	1562.1	1548.9	1532.5	1532.5
22.5°	1521.0	1517.8	1535.8	1557.1	1594.9	1604.7	1603.1	1593.2	1570.3	1550.6	1547.3
25°	1550.6	1521.0	1540.7	1581.7	1594.9	1614.6	1627.7	1614.6	1583.4	1588.3	1558.8
27.5°	1594.9	1589.9	1616.2	1644.1	1632.6	1650.7	1639.2	1649.0	1650.7	1626.0	1596.5
30°	1647.4	1632.6	1649.0	1703.2	1708.1	1727.8	1708.1	1681.8	1690.0	1668.7	1653.9
32.5°	1722.9	1717.9	1749.1	1785.2	1791.8	1781.9	1772.1	1786.8	1752.4	1736.0	1709.7
35°	1772.1	1793.4	1831.1	1859.0	1880.4	1870.5	1875.4	1860.7	1868.9	1834.4	1822.9
37.5°	1918.1	1909.9	1918.1	1965.7	1970.6	1965.7	1970.6	1987.0	1975.5	1946.0	1916.5
40°	2055.9	2042.8	2062.5	2116.6	2113.4	2129.8	2097.0	2115.0	2115.0	2059.2	2047.7
42.5°	2159.3	2203.6	2226.6	2270.9	2287.3	2272.5	2266.0	2269.2	2305.3	2239.7	2215.1
45°	2372.6	2371.0	2439.9	2464.5	2418.6	2415.3	2402.2	2441.5	2466.1	2428.4	2418.6
47.5°	2604.0	2615.5	2654.8	2664.7	2692.6	2641.7	2641.7	2646.6	2733.6	2645.0	2599.0
50°	2812.4	2827.1	2905.9	2983.0	2930.5	2876.3	2897.7	2923.9	2971.5	2887.8	2848.5
52.5°	3065.0	3145.4	3197.9	3239.0	3276.7	3239.0	3189.7	3219.3	3312.8	3201.2	3152.0
55°	3429.3	3493.3	3542.5	3618.0	3649.2	3598.3	3593.4	3590.1	3642.6	3524.5	3457.2
57.5°	3836.2	3810.0	3888.7	4005.2	4118.4	4069.2	4054.4	4057.7	4070.9	3903.5	3852.6
60°	4341.6	4371.1	4464.7	4566.4	4686.2	4755.1	4658.3	4602.5	4614.0	4385.9	4307.1
62.5°	4630.4	4696.0	4907.7	5257.2	5498.4	5713.3	5728.1	5365.5	5122.6	4679.6	4344.9
65°	4490.9	4481.1	4879.8	5526.3	6440.2	7065.3	6971.8	6092.3	5244.0	4540.1	4090.5
67.5°	3819.8	3793.6	4276.0	5301.5	6811.0	8176.2	8069.5	6297.4	4833.8	4016.7	3508.1
70°	2461.2	2454.7	2978.1	4041.3	6080.9	7506.7	7546.1	5719.9	3934.7	2942.0	2438.2
72.5°	894.2	948.4	1251.9	2172.4	4129.9	5742.8	5767.5	4234.9	2262.7	1360.2	1002.5
75°	329.8	339.6	395.4	705.5	1882.0	3526.1	3618.0	2054.3	804.0	443.0	361.0
77.5°	190.3	192.0	211.7	262.5	557.9	1376.6	1432.4	623.5	311.8	236.3	218.2
80°	129.6	128.0	149.3	170.6	223.2	390.5	415.1	260.9	196.9	164.1	137.8
82.5°	75.5	80.4	109.9	121.4	136.2	172.3	175.6	162.4	147.7	121.4	90.2
85°	45.9	37.7	60.7	67.3	78.8	77.1	77.1	88.6	95.2	85.3	50.9
87.5°	11.5	11.5	14.8	16.4	21.3	16.4	18.0	34.5	45.9	42.7	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3	1570.3
2.5°	1573.5	1568.6	1571.9	1589.9	1578.5	1544.0	1552.2	1570.3	1555.5	1547.3	1545.6
5°	1567.0	1576.8	1565.3	1568.6	1580.1	1552.2	1557.1	1580.1	1570.3	1573.5	1555.5
7.5°	1568.6	1573.5	1563.7	1548.9	1548.9	1571.9	1558.8	1562.1	1547.3	1571.9	1539.1
10°	1558.8	1545.6	1534.2	1542.4	1539.1	1532.5	1527.6	1537.4	1522.7	1544.0	1521.0
12.5°	1529.2	1532.5	1529.2	1526.0	1532.5	1548.9	1522.7	1526.0	1503.0	1506.3	1517.8
15°	1517.8	1527.6	1524.3	1542.4	1550.6	1526.0	1545.6	1526.0	1507.9	1498.1	1516.1
17.5°	1522.7	1537.4	1532.5	1545.6	1530.9	1548.9	1552.2	1544.0	1522.7	1514.5	1522.7
20°	1527.6	1522.7	1529.2	1552.2	1573.5	1555.5	1555.5	1550.6	1530.9	1519.4	1519.4
22.5°	1539.1	1530.9	1540.7	1558.8	1565.3	1593.2	1568.6	1557.1	1524.3	1494.8	1522.7
25°	1562.1	1567.0	1573.5	1567.0	1603.1	1599.8	1596.5	1588.3	1537.4	1539.1	1534.2
27.5°	1606.4	1578.5	1586.7	1626.0	1631.0	1644.1	1627.7	1642.5	1588.3	1589.9	1557.1
30°	1660.5	1631.0	1657.2	1691.7	1690.0	1714.6	1706.4	1709.7	1672.0	1650.7	1606.4
32.5°	1719.6	1716.3	1732.7	1754.0	1762.2	1775.4	1773.7	1773.7	1750.7	1695.0	1703.2
35°	1785.2	1808.2	1827.9	1850.8	1854.1	1870.5	1847.6	1850.8	1827.9	1786.8	1800.0
37.5°	1914.8	1913.2	1934.5	1962.4	1965.7	1952.6	1970.6	1962.4	1931.2	1903.3	1882.0
40°	2065.8	2033.0	2052.7	2118.3	2123.2	2100.2	2098.6	2097.0	2074.0	2013.3	2000.2
42.5°	2197.0	2239.7	2236.4	2257.8	2243.0	2231.5	2272.5	2249.6	2231.5	2167.5	2156.0
45°	2366.1	2379.2	2421.8	2490.8	2420.2	2420.2	2448.1	2430.0	2420.2	2372.6	2328.3
47.5°	2576.1	2587.6	2672.9	2677.8	2631.9	2600.7	2687.7	2690.9	2649.9	2613.8	2559.7
50°	2822.2	2827.1	2904.2	2983.0	2932.1	2873.1	2961.7	2996.1	2904.2	2855.0	2787.7
52.5°	3092.9	3078.2	3142.2	3289.8	3240.6	3222.6	3317.7	3325.9	3201.2	3124.1	3142.2
55°	3404.7	3385.0	3558.9	3659.0	3627.8	3595.0	3637.7	3657.4	3557.3	3430.9	3475.2
57.5°	3808.3	3818.2	3905.1	4003.6	4054.4	4062.7	4082.3	4062.7	3960.9	3832.9	3791.9
60°	4212.0	4241.5	4410.5	4595.9	4612.3	4756.7	4730.5	4632.0	4487.6	4305.5	4313.7
62.5°	4361.3	4336.7	4609.0	5061.9	5447.5	5711.7	5595.2	5245.7	4911.0	4579.5	4604.1
65°	4061.0	4121.7	4492.5	5201.4	6038.2	7083.4	6463.2	5496.7	4820.7	4392.5	4344.9
67.5°	3499.9	3545.8	4016.7	4764.9	6249.9	7926.8	6791.3	5142.3	4251.3	3696.8	3726.3
70°	2438.2	2461.2	2922.3	3903.5	5667.4	7480.5	6126.8	3949.4	2935.4	2339.8	2372.6
72.5°	981.2	1037.0	1340.5	2351.3	4184.1	5683.8	4125.0	2072.3	1217.5	905.7	822.0
75°	362.6	364.3	428.3	808.9	1987.0	3572.1	1860.7	666.2	388.9	318.3	303.6
77.5°	210.0	208.4	223.2	292.1	575.9	1394.7	528.3	260.9	211.7	190.3	182.1
80°	131.3	129.6	152.6	193.6	252.7	382.3	223.2	162.4	142.8	123.1	123.1
82.5°	83.7	85.3	119.8	142.8	154.2	169.0	129.6	114.9	106.7	70.6	68.9
85°	54.1	49.2	83.7	95.2	85.3	75.5	72.2	60.7	55.8	34.5	37.7
87.5°	24.6	26.3	42.7	47.6	31.2	18.0	18.0	13.1	13.1	8.2	8.2
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)