

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: P479090

Luminaire Tested: **IFLD-S-SA2D-830-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479090  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-830-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

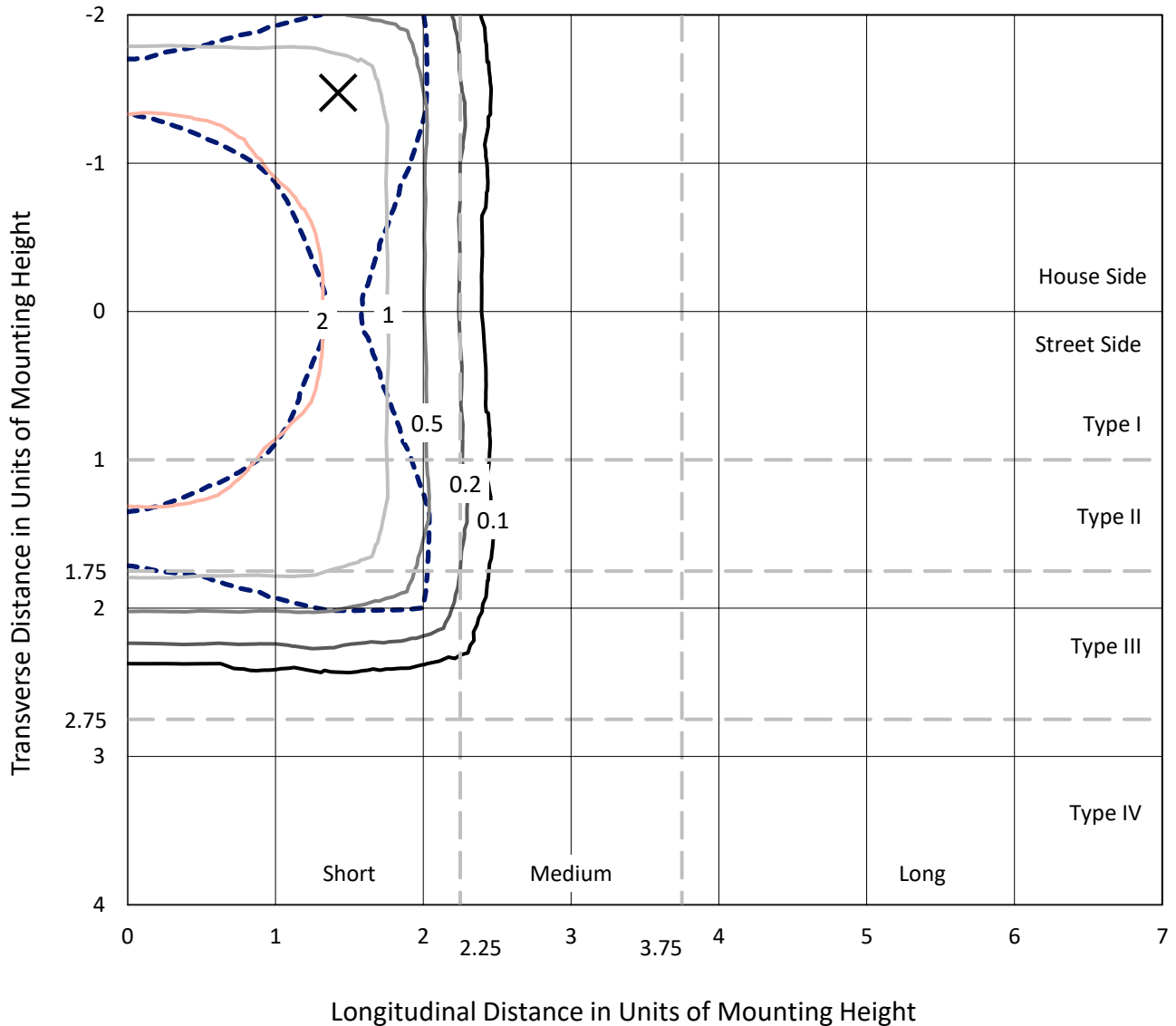
Lumens per Lamp: N/A  
Luminaire Lumens: 12394.5 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

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

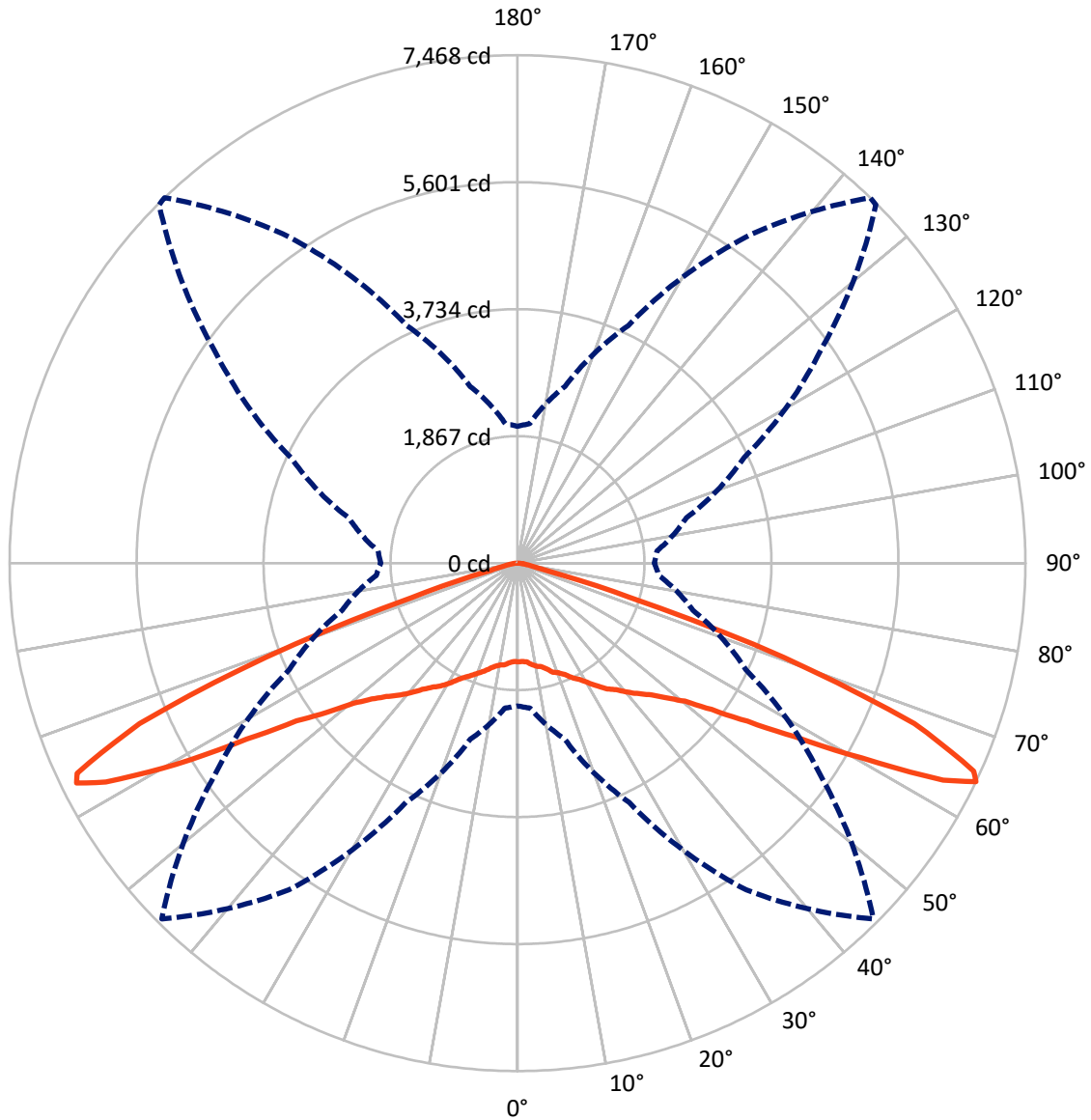
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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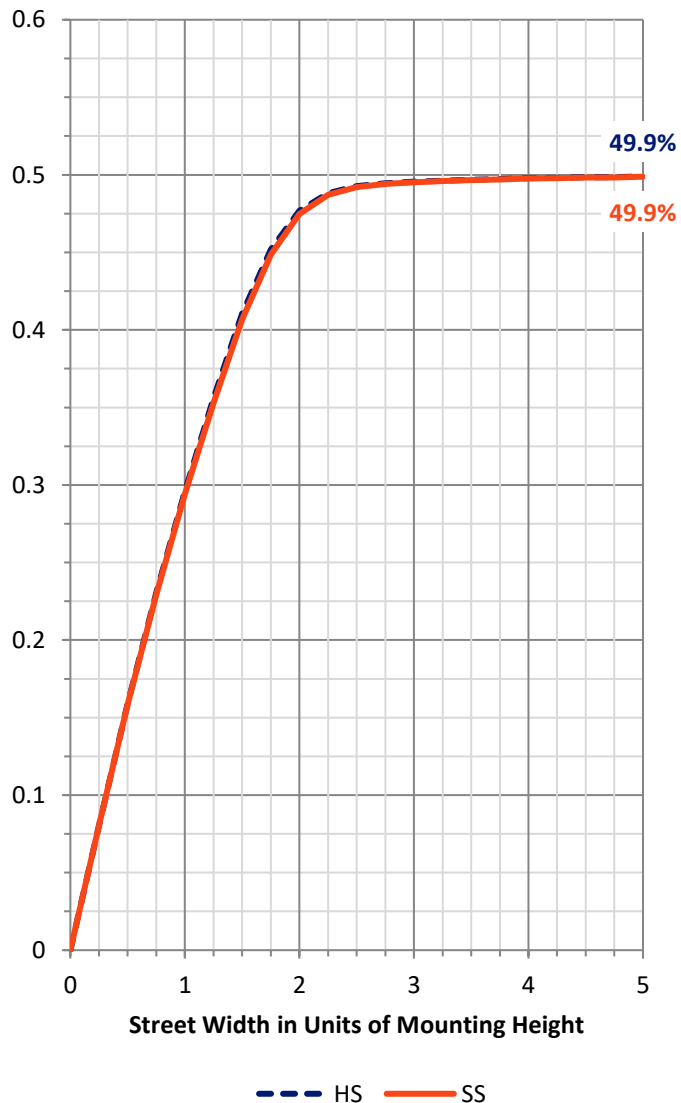
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6203.2	0.0	6203.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6191.4	0.0	6191.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12394.5	0.0	12394.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.6	1.2
10°-20°	459.6	3.7
20°-30°	863.7	7.0
30°-40°	1424.4	11.5
40°-50°	2227.6	18.0
50°-60°	3599.3	29.0
60°-70°	3240.9	26.1
70°-80°	383.9	3.1
80°-90°	52.6	0.4
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°	12394.5	100.0
0°-180°	12394.5	100.0

**Coefficient of Utilization**



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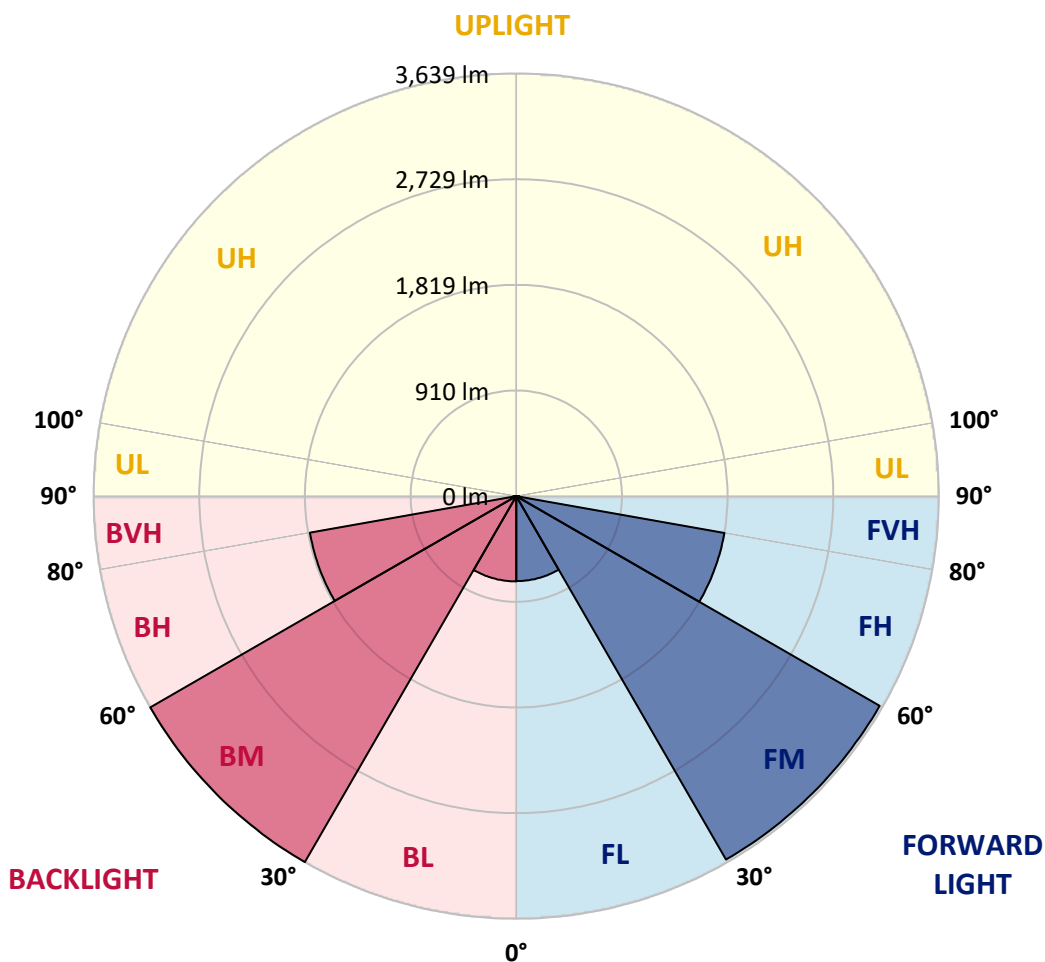
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	731.5	5.9			
FM (30°-60°)	3612.6	29.1			
FH (60°-80°)	1820.3	14.7			G2/5000
FVH (80°-90°)	27.0	0.2			G1/100
BL (0°-30°)	734.3	5.9	B2/1000		
BM (30°-60°)	3638.7	29.4	B3/5000		
BH (60°-80°)	1804.6	14.6	B3/2500		G2/5000
BVH (80°-90°)	25.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1
2.5°	1434.1	1436.9	1462.5	1452.6	1461.1	1445.5	1456.8	1481.0	1452.6	1473.9	1481.0
5°	1449.7	1454.0	1454.0	1463.9	1469.6	1466.8	1473.9	1463.9	1490.9	1479.6	1496.6
7.5°	1506.6	1499.5	1488.1	1496.6	1498.0	1505.2	1512.3	1525.1	1520.8	1510.8	1527.9
10°	1516.5	1510.8	1527.9	1529.3	1522.2	1516.5	1523.6	1523.6	1536.4	1539.3	1539.3
12.5°	1533.6	1539.3	1537.8	1549.2	1550.6	1546.4	1557.7	1579.1	1573.4	1577.6	1567.7
15°	1599.0	1591.9	1590.4	1601.8	1620.3	1593.3	1613.2	1611.8	1606.1	1614.6	1591.9
17.5°	1655.8	1633.1	1643.0	1661.5	1654.4	1660.1	1685.7	1662.9	1668.6	1658.7	1651.5
20°	1705.6	1687.1	1688.5	1695.6	1695.6	1712.7	1722.6	1714.1	1708.4	1707.0	1709.8
22.5°	1761.0	1739.7	1741.1	1770.9	1780.9	1775.2	1768.1	1782.3	1785.1	1773.8	1786.6
25°	1802.2	1824.9	1832.1	1846.3	1824.9	1840.6	1834.9	1861.9	1879.0	1856.2	1871.8
27.5°	1910.2	1900.3	1918.8	1917.3	1934.4	1918.8	1928.7	1937.2	1944.3	1945.8	1938.6
30°	2006.9	2011.1	1992.7	2042.4	2002.6	2028.2	2045.2	2049.5	2058.0	2058.0	2036.7
32.5°	2109.2	2100.7	2130.5	2119.2	2112.0	2131.9	2113.5	2171.7	2137.6	2157.5	2133.4
35°	2224.3	2224.3	2235.7	2267.0	2224.3	2211.5	2245.6	2269.8	2269.8	2234.3	2242.8
37.5°	2353.7	2342.3	2356.5	2396.3	2363.6	2321.0	2383.5	2393.5	2386.4	2376.4	2359.4
40°	2444.6	2441.8	2470.2	2522.8	2475.9	2467.4	2478.7	2505.7	2514.3	2524.2	2501.5
42.5°	2598.1	2610.9	2693.4	2680.6	2642.2	2612.3	2609.5	2710.4	2686.3	2660.7	2647.9
45°	2825.5	2814.2	2856.8	2858.2	2808.5	2743.1	2757.3	2849.7	2890.9	2834.1	2855.4
47.5°	3006.0	3011.7	3041.6	3102.7	2987.6	2919.3	2971.9	3121.2	3108.4	3087.1	3107.0
50°	3247.7	3273.2	3367.1	3345.7	3243.4	3159.5	3274.7	3415.4	3431.0	3352.8	3338.6
52.5°	3581.7	3621.5	3672.6	3689.7	3591.6	3561.8	3568.9	3743.7	3705.3	3630.0	3581.7
55°	3874.5	3892.9	3986.7	4127.4	4120.3	3976.8	4059.2	4124.6	3968.3	3813.3	3826.1
57.5°	3999.5	4008.1	4269.6	4551.0	4718.7	4751.4	4657.6	4437.3	4064.9	3766.4	3748.0
60°	3688.3	3769.3	4084.8	4720.1	5486.2	5864.3	5240.3	4472.8	3838.9	3476.5	3449.5
62.5°	2947.8	2952.0	3421.1	4384.7	5963.8	6954.4	5463.5	4138.8	3236.3	2825.5	2717.5
64°	2099.3	2139.1	2677.7	3881.6	5864.3	7397.8	5436.5	3702.5	2667.8	2085.0	2009.7
65°	1506.6	1562.0	2082.2	3369.9	5631.2	7345.3	5355.4	3327.3	2157.5	1591.9	1515.1
67.5°	554.3	577.0	817.2	1685.7	4043.6	6259.4	4244.0	1829.2	948.0	675.1	606.9
70°	257.3	258.7	302.7	557.1	1768.1	4185.7	2025.3	686.5	356.7	282.8	262.9
72.5°	189.0	193.3	211.8	257.3	520.2	1772.4	665.2	281.4	208.9	184.8	180.5
75°	153.5	156.3	162.0	186.2	240.2	474.7	270.0	194.7	166.3	149.2	143.6
77.5°	118.0	118.0	130.8	142.1	159.2	221.7	179.1	154.9	135.0	118.0	113.7
80°	85.3	86.7	102.3	110.9	108.0	146.4	129.3	127.9	110.9	92.4	85.3
82.5°	49.7	54.0	73.9	79.6	76.8	86.7	93.8	99.5	86.7	64.0	58.3
85°	28.4	29.8	42.6	44.1	44.1	41.2	54.0	59.7	58.3	39.8	35.5
87.5°	8.5	8.5	11.4	11.4	12.8	14.2	21.3	25.6	28.4	19.9	18.5
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°	136°	145°	155°	165°	175°	180°
0°	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1	1451.1
2.5°	1473.9	1452.6	1454.0	1459.7	1441.2	1448.3	1469.6	1454.0	1449.7	1441.2	1436.9
5°	1466.8	1489.5	1481.0	1483.8	1479.6	1459.7	1456.8	1469.6	1476.7	1463.9	1489.5
7.5°	1516.5	1506.6	1495.2	1499.5	1489.5	1506.6	1517.9	1492.4	1505.2	1498.0	1483.8
10°	1544.9	1526.5	1535.0	1532.2	1525.1	1542.1	1530.7	1527.9	1516.5	1500.9	1523.6
12.5°	1554.9	1576.2	1590.4	1566.3	1570.5	1562.0	1554.9	1554.9	1542.1	1537.8	1542.1
15°	1599.0	1617.4	1611.8	1630.2	1606.1	1614.6	1623.1	1601.8	1613.2	1581.9	1606.1
17.5°	1680.0	1664.3	1684.2	1660.1	1668.6	1685.7	1658.7	1658.7	1667.2	1650.1	1628.8
20°	1731.1	1724.0	1716.9	1718.3	1704.1	1719.8	1711.2	1707.0	1694.2	1699.9	1711.2
22.5°	1779.5	1769.5	1772.4	1776.6	1786.6	1779.5	1775.2	1779.5	1748.2	1776.6	1736.8
25°	1839.2	1866.2	1857.6	1876.1	1847.7	1866.2	1864.7	1837.7	1854.8	1843.4	1834.9
27.5°	1938.6	1924.4	1937.2	1914.5	1934.4	1935.8	1918.8	1964.2	1944.3	1941.5	1935.8
30°	2066.6	2056.6	2048.1	2035.3	2050.9	2038.1	2052.4	2056.6	2038.1	2023.9	1996.9
32.5°	2139.1	2166.1	2176.0	2144.7	2146.2	2153.3	2140.5	2127.7	2139.1	2143.3	2139.1
35°	2241.4	2267.0	2272.7	2248.5	2235.7	2271.2	2245.6	2288.3	2251.3	2252.8	2214.4
37.5°	2360.8	2367.9	2416.2	2389.2	2377.8	2360.8	2407.7	2402.0	2410.5	2342.3	2376.4
40°	2495.8	2521.4	2548.4	2480.2	2478.7	2494.4	2491.5	2524.2	2508.6	2498.6	2474.5
42.5°	2643.6	2697.6	2701.9	2656.4	2628.0	2625.1	2639.3	2711.8	2713.3	2647.9	2619.4
45°	2839.8	2899.4	2883.8	2795.7	2764.4	2760.2	2829.8	2861.1	2888.1	2862.5	2838.3
47.5°	3084.2	3124.0	3112.6	3031.6	2930.7	2959.1	3027.4	3125.4	3097.0	3062.9	3034.5
50°	3345.7	3392.6	3368.5	3287.5	3190.8	3190.8	3274.7	3399.7	3391.2	3324.4	3298.8
52.5°	3635.7	3703.9	3759.3	3644.2	3563.2	3576.0	3708.2	3753.6	3732.3	3685.4	3664.1
55°	3851.7	3982.5	4096.2	4101.9	4106.1	4104.7	4138.8	4184.3	4032.2	3956.9	3880.1
57.5°	3799.1	4046.4	4435.9	4700.2	4778.4	4819.6	4808.2	4597.9	4238.3	3991.0	4016.6
60°	3423.9	3827.6	4455.8	5304.3	5872.8	5815.9	5608.4	4777.0	4124.6	3706.7	3654.2
62.5°	2731.7	3217.8	4121.8	5474.8	7041.1	7024.0	5938.2	4363.4	3436.7	2908.0	2875.3
64°	2058.0	2569.7	3676.9	5430.8	7450.4	7467.5	5854.3	3854.6	2689.1	2058.0	2008.3
65°	1574.8	2049.5	3240.6	5339.8	7362.3	7372.3	5621.2	3328.7	2043.8	1461.1	1407.1
67.5°	626.8	872.7	1758.1	4049.3	6321.9	6294.9	4010.9	1610.3	781.7	508.8	498.9
70°	267.2	332.6	616.8	1918.8	4232.6	4154.5	1726.9	523.0	289.9	243.0	241.6
72.5°	183.3	203.2	264.4	592.7	1759.6	1718.3	491.8	243.0	197.6	181.9	181.9
75°	147.8	162.0	191.9	248.7	466.2	449.1	231.7	179.1	157.8	146.4	145.0
77.5°	115.1	129.3	150.7	172.0	213.2	211.8	154.9	135.0	122.2	113.7	110.9
80°	91.0	105.2	119.4	122.2	139.3	136.4	105.2	106.6	99.5	82.4	81.0
82.5°	62.5	85.3	95.2	86.7	82.4	82.4	75.3	75.3	69.6	51.2	46.9
85°	38.4	56.9	59.7	51.2	38.4	38.4	41.2	39.8	37.0	27.0	25.6
87.5°	19.9	27.0	24.2	19.9	12.8	12.8	11.4	8.5	8.5	7.1	7.1
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)