

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: P480730

Luminaire Tested: **IFLD-S-SA3A-722-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480730  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-722-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

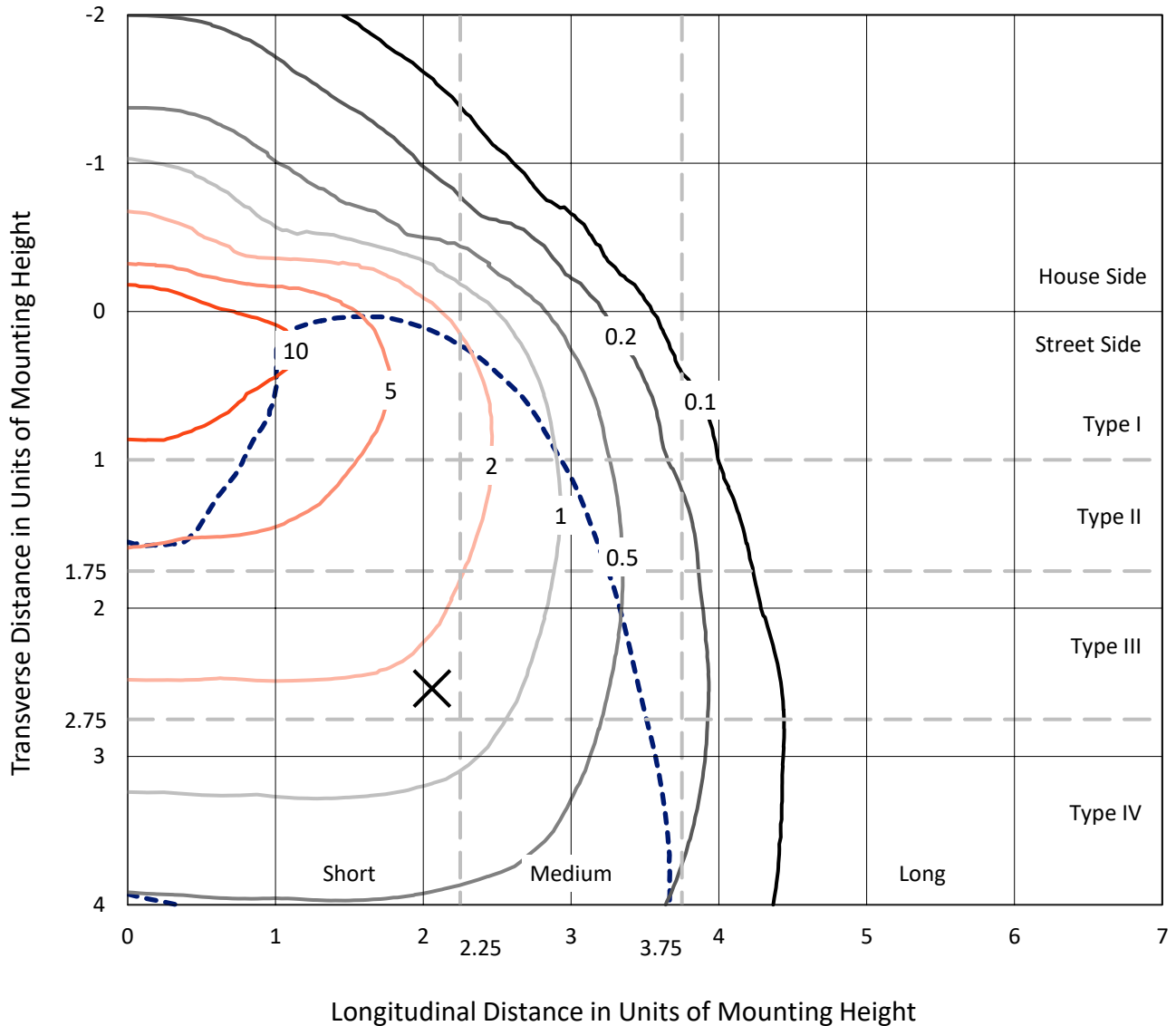
Lumens per Lamp: N/A  
Luminaire Lumens: 9802.9 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

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

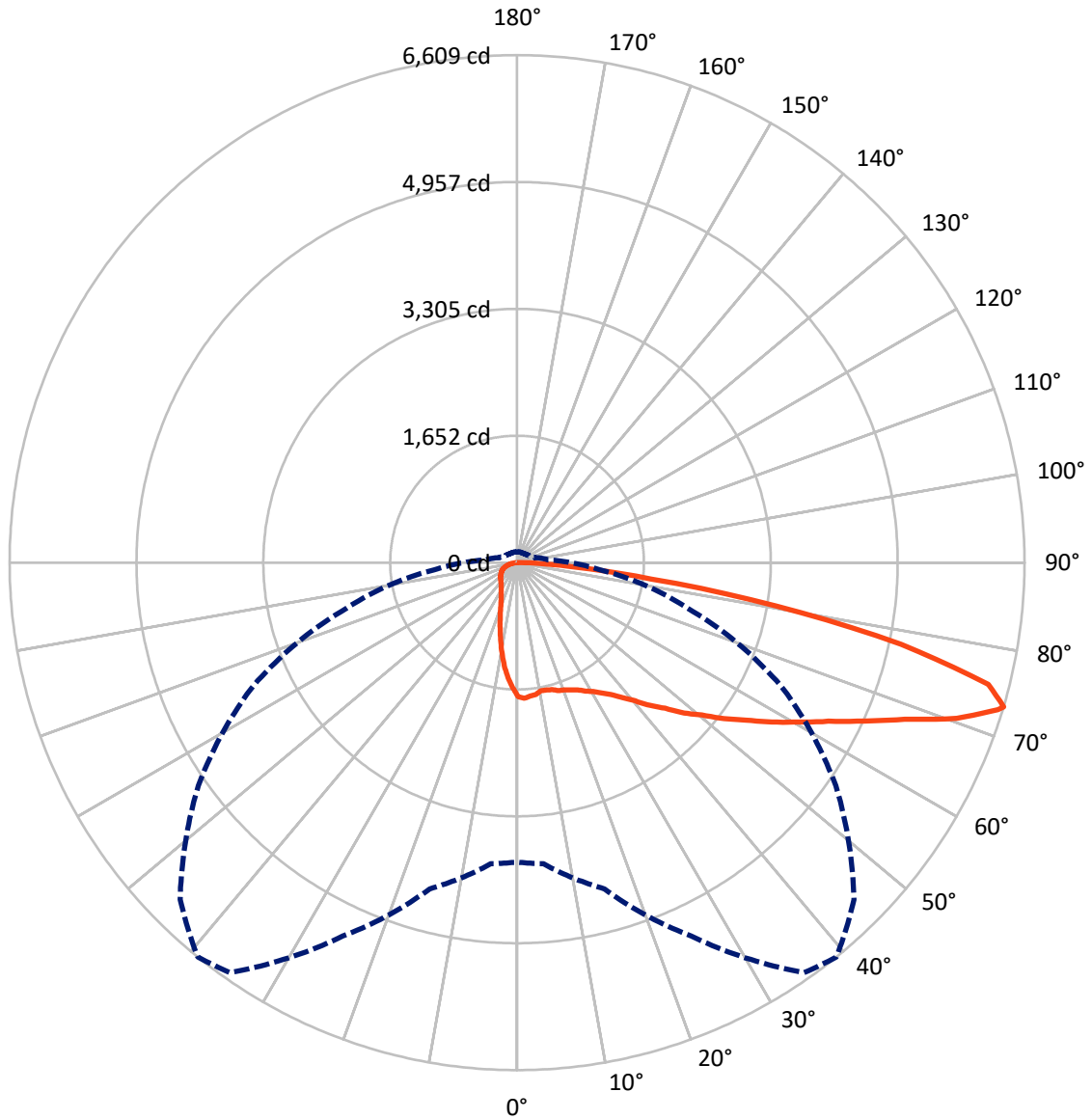
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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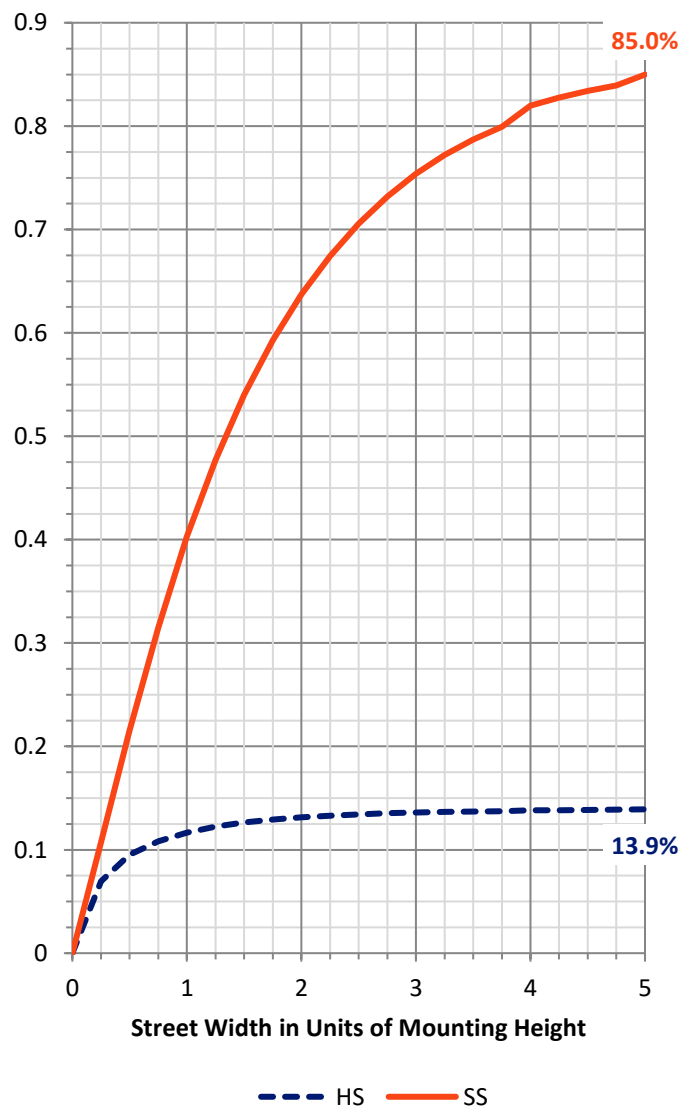
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1378.0	0.0	1378.0
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	8424.9	0.0	8424.9
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	9802.9	0.0	9802.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.5	1.5
10°-20°	385.1	3.9
20°-30°	588.4	6.0
30°-40°	858.0	8.8
40°-50°	1296.5	13.2
50°-60°	1877.4	19.2
60°-70°	2385.3	24.3
70°-80°	1933.7	19.7
80°-90°	327.2	3.3
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°	9802.9	100.0
0°-180°	9802.9	100.0

**Coefficient of Utilization**



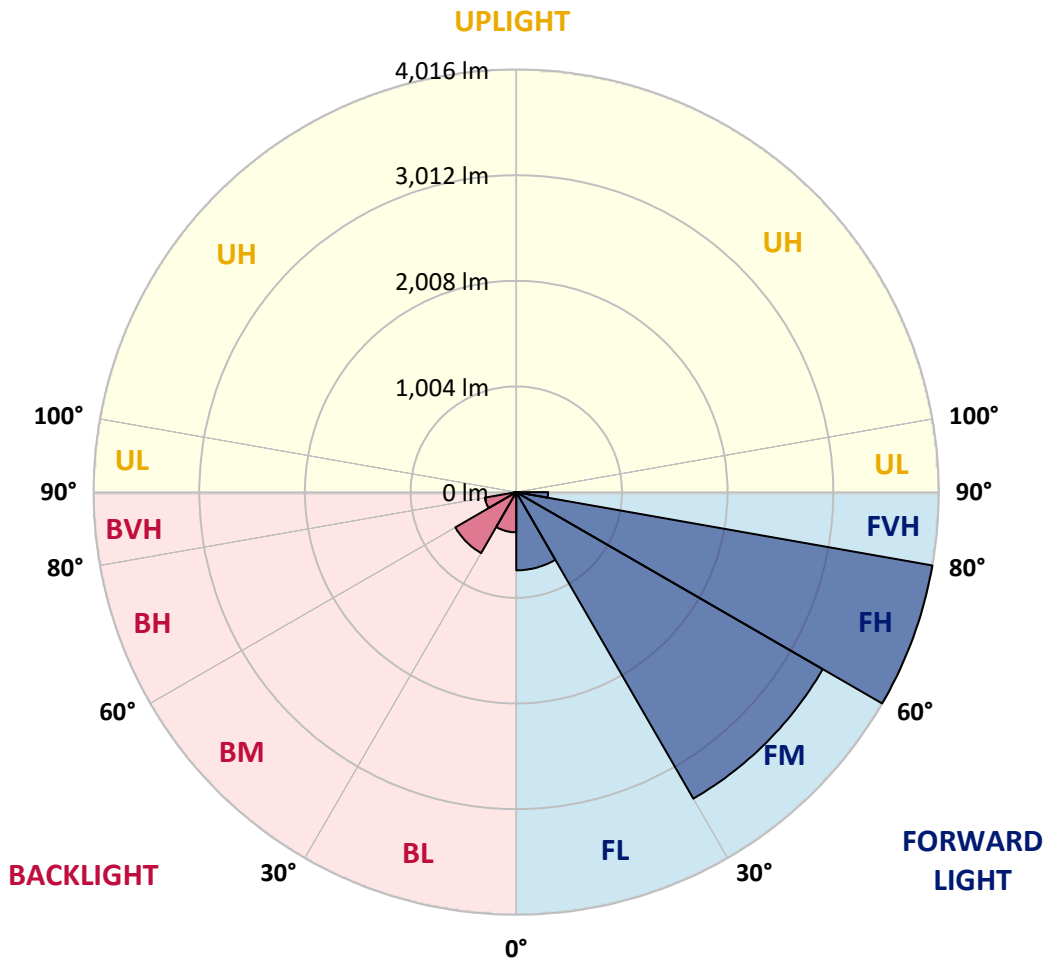
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	742.8	7.6			
FM (30°-60°)	3363.0	34.3			
FH (60°-80°)	4015.9	41.0			G2/5000
FVH (80°-90°)	303.2	3.1			G3/500
BL (0°-30°)	382.2	3.9	B1/500		
BM (30°-60°)	668.8	6.8	B1/1000		
BH (60°-80°)	303.1	3.1	B1/500		G1/500
BVH (80°-90°)	24.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0
2.5°	1786.7	1768.0	1771.3	1764.7	1771.3	1769.1	1765.8	1749.4	1765.8	1749.4	1745.0
5°	1762.5	1762.5	1773.5	1757.0	1759.2	1748.3	1759.2	1747.2	1736.2	1708.8	1701.1
7.5°	1754.9	1753.8	1754.9	1731.8	1742.8	1736.2	1725.2	1712.1	1690.1	1672.6	1647.4
10°	1702.2	1713.2	1701.1	1707.7	1716.5	1696.7	1695.6	1692.3	1682.5	1659.4	1644.1
12.5°	1673.7	1692.3	1698.9	1693.4	1701.1	1703.3	1696.7	1692.3	1680.3	1664.9	1621.0
15°	1685.8	1663.8	1682.5	1718.7	1711.0	1716.5	1717.6	1713.2	1707.7	1679.2	1650.7
17.5°	1689.0	1675.9	1715.4	1723.0	1732.9	1752.7	1739.5	1738.4	1717.6	1697.8	1656.1
20°	1696.7	1691.2	1723.0	1763.6	1764.7	1768.0	1774.6	1758.1	1747.2	1713.2	1649.6
22.5°	1725.2	1743.9	1773.5	1791.0	1800.9	1803.1	1803.1	1770.2	1758.1	1730.7	1680.3
25°	1810.8	1791.0	1832.7	1853.6	1839.3	1836.0	1828.3	1798.7	1785.6	1761.4	1694.5
27.5°	1873.3	1872.2	1896.3	1924.9	1886.5	1894.1	1866.7	1857.9	1828.3	1815.2	1719.8
30°	1958.9	1983.0	1981.9	1990.7	1940.2	1949.0	1913.9	1897.4	1881.0	1888.7	1794.3
32.5°	2068.5	2059.8	2074.0	2067.4	2017.0	2024.7	1983.0	1957.8	1963.2	1986.3	1896.3
35°	2138.7	2130.0	2135.4	2135.4	2120.1	2111.3	2093.8	2060.9	2087.2	2130.0	2010.4
37.5°	2214.4	2225.4	2257.2	2250.6	2230.9	2230.9	2228.7	2205.6	2239.6	2344.9	2192.5
40°	2281.3	2310.9	2330.7	2343.8	2366.9	2366.9	2385.5	2372.3	2433.8	2602.7	2415.1
42.5°	2351.5	2352.6	2460.1	2470.0	2521.5	2543.4	2557.7	2568.7	2683.8	2872.5	2653.1
45°	2441.4	2446.9	2541.2	2616.9	2697.0	2704.7	2758.4	2794.6	2936.1	3167.5	2912.0
47.5°	2559.9	2553.3	2654.2	2774.9	2874.7	2927.3	2992.0	3031.5	3205.9	3487.8	3194.9
50°	2715.6	2695.9	2754.0	2943.8	3061.1	3119.2	3234.4	3300.2	3504.2	3793.8	3389.1
52.5°	2905.4	2872.5	2918.5	3125.8	3257.4	3374.8	3484.5	3558.0	3770.7	4030.7	3532.7
55°	3106.1	3038.1	3051.2	3318.9	3508.6	3619.4	3769.6	3846.4	4063.6	4243.5	3676.4
57.5°	3304.6	3261.8	3235.5	3504.2	3808.0	3914.4	4052.6	4152.4	4336.7	4432.1	3798.2
60°	3471.3	3460.3	3417.6	3791.6	4125.0	4216.0	4360.8	4422.2	4561.5	4606.5	3800.4
62.5°	3608.4	3571.1	3639.1	4023.0	4447.5	4550.5	4709.6	4715.1	4813.8	4715.1	3688.5
65°	3715.9	3718.1	3826.7	4302.7	4820.4	4972.8	5101.1	5086.9	5023.3	4650.4	3424.2
67.5°	3813.5	3855.2	4014.2	4609.8	5299.7	5443.3	5585.9	5397.3	5080.3	4347.6	2907.6
70°	3890.3	3932.0	4267.6	4983.8	5864.5	6075.1	6106.9	5520.1	4818.2	3683.0	2193.6
72.5°	3881.5	3957.2	4411.3	5282.1	6365.7	6547.8	6291.1	5174.6	4014.2	2567.6	1279.9
73°	3900.2	3937.4	4399.2	5365.5	6518.2	6609.2	6205.6	5066.0	3786.1	2303.2	1082.5
75°	3540.4	3666.5	4180.9	5229.5	6354.8	6338.3	5714.2	4221.5	2691.5	1209.8	524.3
77.5°	2619.1	2699.2	3294.7	4300.5	5216.3	5111.0	4310.4	2698.1	1277.8	448.6	283.0
80°	1279.9	1342.5	1746.1	2483.1	3411.0	3419.8	2675.1	1403.9	547.3	253.4	193.0
82.5°	639.4	676.7	839.0	1091.3	1678.1	1758.1	1356.7	798.5	338.9	143.7	109.7
85°	417.9	444.2	516.6	534.1	711.8	751.3	631.7	623.0	220.5	77.9	88.8
87.5°	277.5	281.9	317.0	269.8	285.2	274.2	304.9	392.6	64.7	32.9	24.1
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°	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0
2.5°	1739.5	1724.1	1707.7	1684.7	1668.2	1643.0	1619.9	1610.1	1607.9	1609.0	1598.0
5°	1694.5	1672.6	1639.7	1592.5	1565.1	1523.4	1488.3	1469.7	1449.9	1453.2	1444.5
7.5°	1632.0	1607.9	1557.4	1502.6	1434.6	1375.4	1342.5	1296.4	1270.1	1250.3	1261.3
10°	1612.3	1570.6	1494.9	1419.2	1313.9	1236.1	1160.4	1107.8	1071.6	1036.5	1051.8
12.5°	1602.4	1560.7	1455.4	1343.6	1207.6	1089.1	982.7	918.0	866.5	835.7	847.8
15°	1593.6	1542.1	1418.1	1260.2	1107.8	952.0	832.5	746.9	697.6	667.9	671.2
17.5°	1605.7	1532.2	1363.3	1179.0	998.1	831.4	698.7	609.8	559.4	540.7	536.3
20°	1593.6	1521.2	1309.6	1097.9	888.4	716.2	589.0	515.5	480.4	465.0	461.7
22.5°	1598.0	1494.9	1253.6	1007.9	786.4	619.7	515.5	459.6	432.1	424.5	426.6
25°	1618.9	1479.6	1197.7	909.2	685.5	548.4	468.3	425.6	405.8	398.1	400.3
27.5°	1634.2	1492.7	1147.2	816.0	599.9	484.8	428.8	400.3	387.2	381.7	380.6
30°	1672.6	1500.4	1097.9	732.7	529.7	443.1	401.4	378.4	369.6	366.3	365.2
32.5°	1729.6	1514.7	1040.8	655.9	478.2	403.6	379.5	359.7	357.6	354.3	355.4
35°	1822.9	1564.0	977.2	590.1	428.8	377.3	356.5	343.3	343.3	343.3	346.6
37.5°	1956.7	1633.1	920.2	527.6	397.0	354.3	336.7	332.3	330.1	333.4	335.6
40°	2128.9	1716.5	874.1	478.2	369.6	338.9	323.6	321.4	320.3	319.2	321.4
42.5°	2317.5	1822.9	834.7	439.8	349.9	322.5	311.5	309.3	304.9	307.1	310.4
45°	2505.1	1954.5	799.6	409.1	336.7	313.7	298.3	297.2	295.0	293.9	299.4
47.5°	2713.4	2083.9	788.6	390.5	326.8	300.5	289.6	288.5	281.9	280.8	285.2
50°	2875.8	2179.3	800.7	381.7	312.6	290.6	283.0	277.5	272.0	266.5	266.5
52.5°	2987.6	2245.1	809.4	375.1	304.9	277.5	267.6	265.4	259.9	254.5	252.3
55°	3088.5	2284.6	811.6	376.2	297.2	262.1	255.6	254.5	251.2	242.4	240.2
57.5°	3122.5	2268.1	767.7	366.3	292.8	252.3	243.5	245.7	241.3	233.6	232.5
60°	3119.2	2154.1	667.9	353.2	283.0	241.3	230.3	236.9	236.9	228.1	227.0
62.5°	2929.5	1890.9	546.2	327.9	272.0	230.3	218.3	228.1	231.4	225.9	224.8
65°	2535.8	1539.9	456.3	302.7	255.6	218.3	206.2	217.2	222.6	220.5	219.4
67.5°	2098.1	1177.9	379.5	269.8	234.7	201.8	191.9	199.6	202.9	204.0	205.1
70°	1482.8	784.2	317.0	233.6	206.2	184.3	173.3	174.4	173.3	176.6	176.6
72.5°	806.1	451.9	257.7	198.5	177.7	160.1	152.5	147.0	147.0	145.9	145.9
73°	689.9	405.8	245.7	193.0	170.0	155.7	147.0	142.6	142.6	141.5	140.4
75°	387.2	297.2	210.6	165.6	147.0	136.0	129.4	122.8	121.7	121.7	121.7
77.5°	254.5	231.4	167.8	132.7	118.5	108.6	106.4	99.8	99.8	99.8	98.7
80°	190.8	182.1	129.4	100.9	91.0	83.4	81.2	76.8	75.7	71.3	72.4
82.5°	127.2	143.7	94.3	71.3	61.4	57.0	57.0	55.9	52.6	47.2	47.2
85°	100.9	117.4	68.0	43.9	36.2	30.7	31.8	30.7	29.6	24.1	23.0
87.5°	18.6	47.2	19.7	12.1	8.8	5.5	5.5	3.3	2.2	0.0	0.0
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)