

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: P478665

Luminaire Tested: **IFLD-S-SA3C-827-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478665  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-827-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

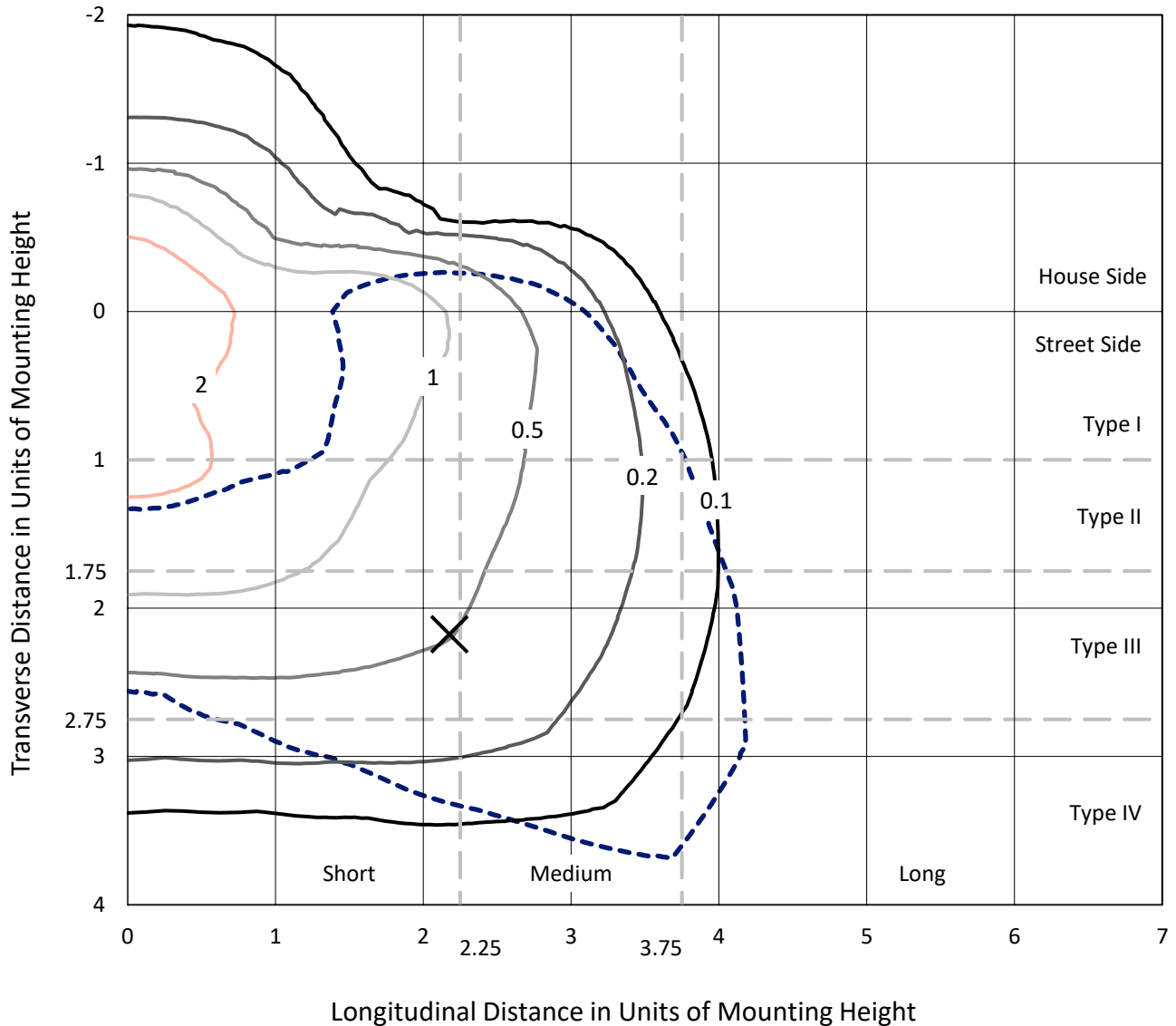
Lumens per Lamp: N/A  
Luminaire Lumens: 15738.7 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.8  
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

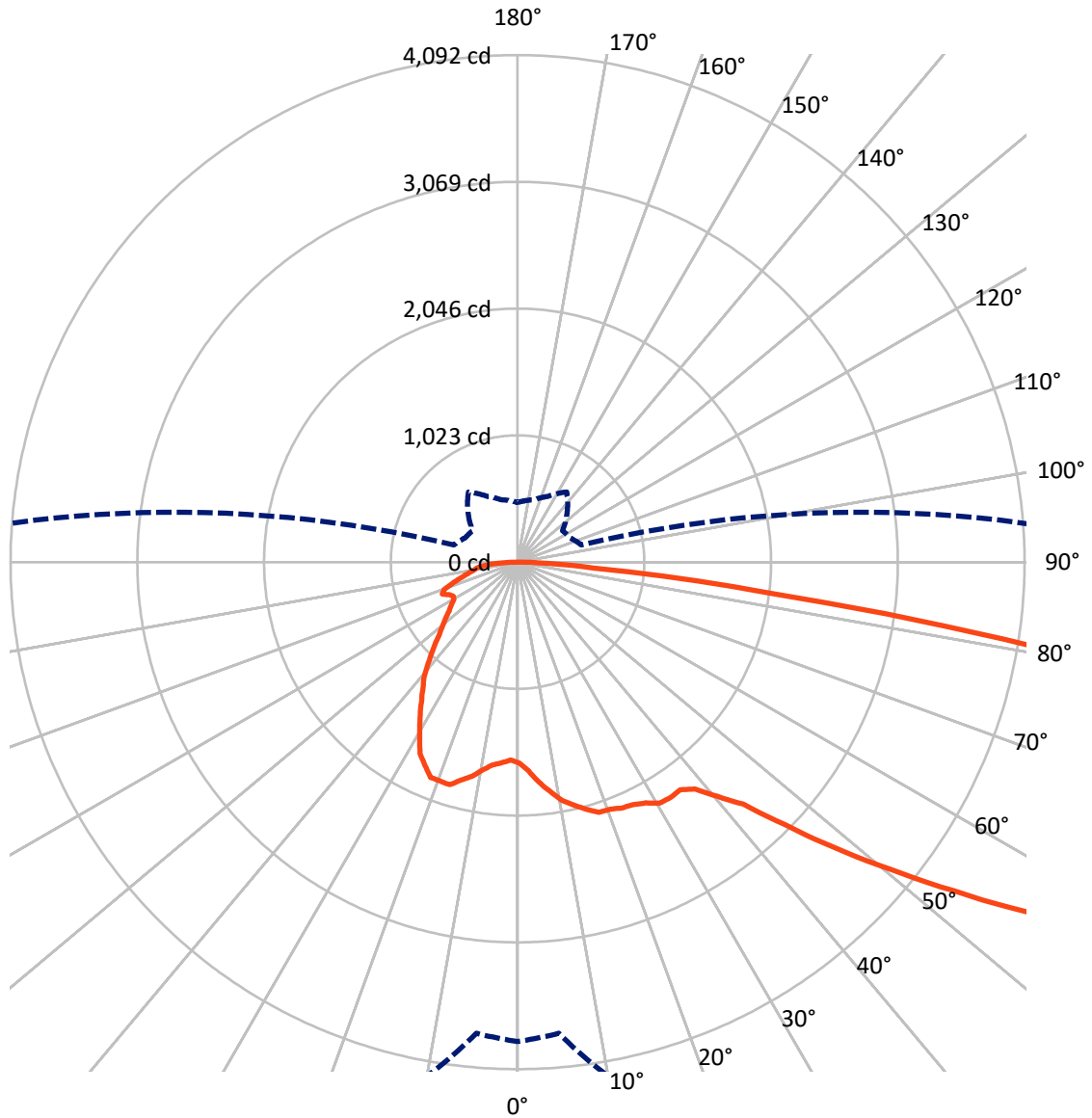
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical

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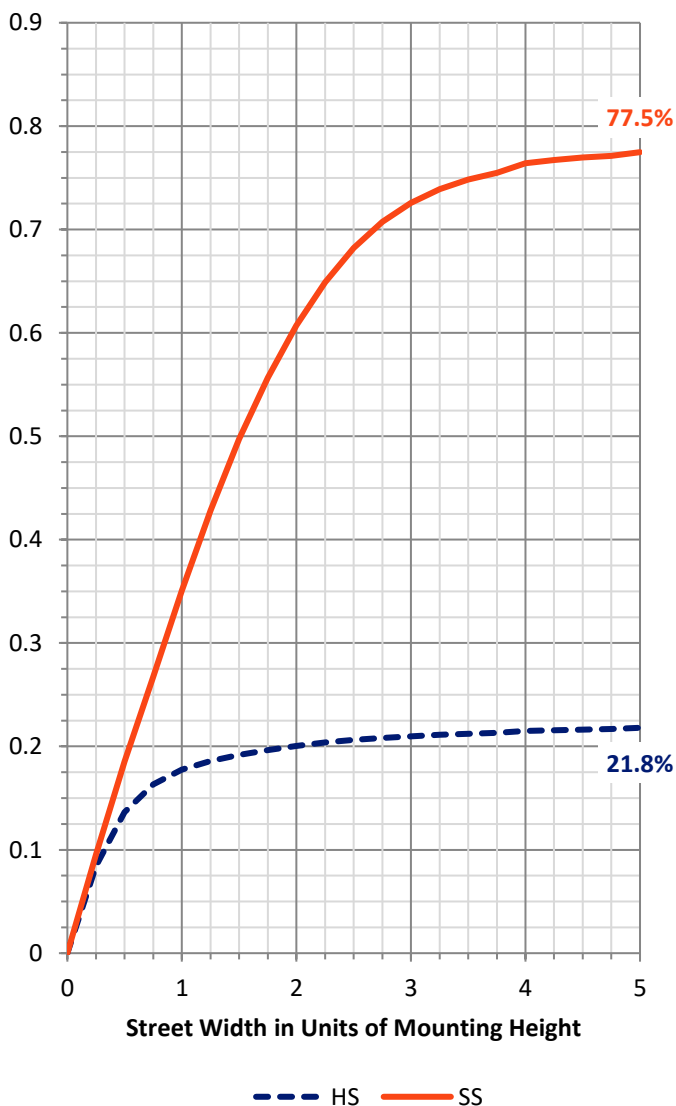
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3503.5	0.0	3503.5
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	12235.2	0.0	12235.2
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	15738.7	0.0	15738.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.9	1.1
10°-20°	551.8	3.5
20°-30°	931.8	5.9
30°-40°	1289.5	8.2
40°-50°	1844.5	11.7
50°-60°	2975.0	18.9
60°-70°	4387.7	27.9
70°-80°	3186.3	20.2
80°-90°	406.2	2.6
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°	15738.7	100.0
0°-180°	15738.7	100.0

**Coefficient of Utilization**



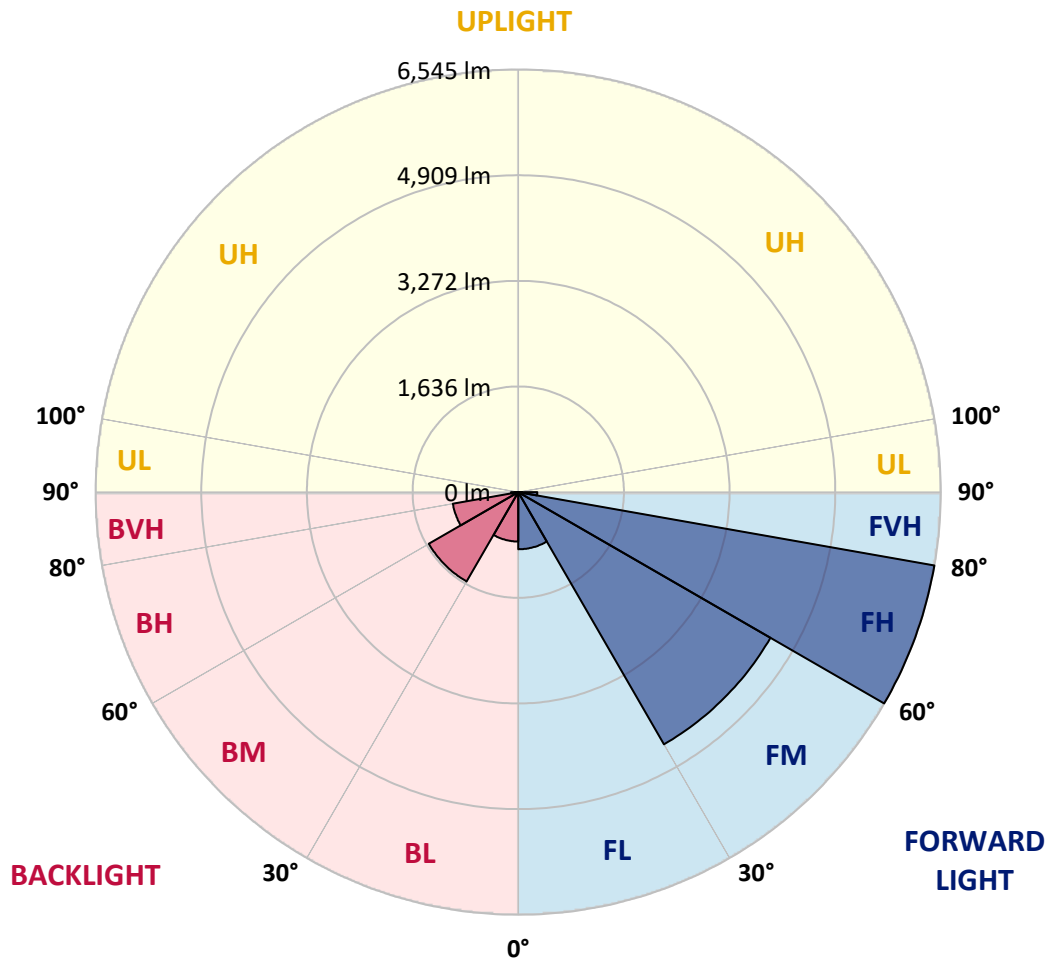
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	884.5	5.6			
FM (30°-60°)	4510.2	28.7			
FH (60°-80°)	6544.9	41.6			G3/7500
FVH (80°-90°)	295.6	1.9			G3/500
BL (0°-30°)	765.0	4.9	B2/1000		
BM (30°-60°)	1598.9	10.2	B2/2500		
BH (60°-80°)	1029.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	110.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8
2.5°	1707.4	1717.5	1707.4	1705.7	1688.7	1676.8	1687.0	1671.7	1654.7	1648.0	1632.7
5°	1863.5	1865.2	1846.5	1848.2	1812.6	1775.2	1782.0	1736.2	1687.0	1668.3	1637.8
7.5°	2023.0	2004.4	1977.2	1968.7	1912.7	1872.0	1866.9	1826.2	1749.8	1707.4	1664.9
10°	2126.6	2133.4	2089.2	2051.9	2004.4	1955.1	1953.5	1877.1	1833.0	1770.2	1715.8
12.5°	2218.2	2219.9	2182.6	2123.2	2063.8	2002.7	2011.2	1977.2	1902.5	1843.1	1788.8
15°	2289.5	2279.3	2238.6	2184.3	2121.5	2073.9	2068.9	2040.0	1977.2	1928.0	1838.0
17.5°	2309.9	2304.8	2264.0	2206.3	2145.2	2109.6	2123.2	2075.6	2050.2	2006.1	1919.5
20°	2270.8	2258.9	2252.2	2187.7	2143.5	2140.1	2128.3	2138.4	2096.0	2055.3	1992.5
22.5°	2199.5	2194.4	2191.1	2140.1	2119.8	2135.0	2155.4	2170.7	2163.9	2124.9	2053.6
25°	2126.6	2150.3	2128.3	2104.5	2133.4	2172.4	2167.3	2216.5	2216.5	2204.6	2145.2
27.5°	2177.5	2162.2	2145.2	2133.4	2143.5	2204.6	2201.2	2260.6	2282.7	2260.6	2192.8
30°	2304.8	2289.5	2240.3	2187.7	2174.1	2240.3	2257.2	2309.9	2320.0	2265.7	2208.0
32.5°	2544.1	2535.6	2457.5	2303.1	2219.9	2257.2	2265.7	2325.1	2316.6	2282.7	2258.9
35°	2898.8	2869.9	2761.3	2499.9	2316.6	2279.3	2257.2	2304.8	2337.0	2320.0	2298.0
37.5°	3287.4	3255.2	3121.1	2790.2	2491.5	2338.7	2321.7	2360.8	2398.1	2389.6	2343.8
40°	3659.1	3659.1	3538.6	3153.4	2751.1	2483.0	2486.4	2442.2	2476.2	2460.9	2469.4
42.5°	4025.7	4012.1	3962.9	3579.3	3029.5	2724.0	2669.7	2559.3	2620.4	2615.3	2627.2
45°	4397.4	4387.2	4373.6	3976.5	3428.3	3049.8	3021.0	2822.4	2878.4	2854.7	2905.6
47.5°	4694.4	4706.3	4706.3	4419.4	3854.3	3484.3	3441.9	3127.9	3234.8	3246.7	3258.6
50°	4947.3	4952.4	4947.3	4842.0	4329.5	3981.6	3895.0	3576.0	3682.9	3776.2	3884.8
52.5°	5296.9	5303.7	5279.9	5239.2	4974.4	4504.3	4407.6	4052.9	4271.8	4370.2	4565.4
55°	5728.0	5677.1	5632.9	5663.5	5593.9	5079.6	4979.5	4545.0	4874.3	5005.0	5395.3
57.5°	5807.7	5851.9	5963.9	6206.6	6306.7	5639.7	5582.0	5149.2	5554.9	5668.6	6320.3
60°	6089.5	6016.5	6291.4	6817.6	6929.6	6369.5	6310.1	5811.1	6232.0	6350.8	7174.0
62.5°	6274.5	6271.1	6678.4	7303.0	7557.5	7126.4	7005.9	6671.6	6963.5	7078.9	8104.0
65°	6220.2	6269.4	6992.4	7588.1	8082.0	7986.9	7917.3	7411.6	7796.8	7786.6	8709.9
67.5°	5724.6	5863.7	6793.8	7793.4	8862.7	9035.8	9013.7	8451.9	8474.0	8258.5	8979.8
70°	5037.2	4989.7	5953.7	7579.6	9253.0	10279.8	10274.7	9225.9	9083.3	8362.0	8205.8
72°	3869.6	3816.9	4609.5	6508.7	9047.6	10777.1	10929.8	9762.2	9076.5	7932.6	6778.5
72.5°	3513.2	3467.3	4256.5	6126.8	8820.2	10906.1	10834.8	9782.5	9005.2	7730.6	6332.2
75°	1617.4	1564.8	2126.6	3750.8	6880.4	9663.7	9906.4	9154.6	7864.7	6154.0	3793.2
77.5°	482.0	466.7	684.0	1513.9	3998.5	7119.7	7213.0	6907.5	5490.4	3370.6	1407.0
80°	268.2	269.9	353.0	566.9	1758.3	4115.7	4451.7	4266.7	2693.4	1113.3	468.4
82.5°	149.4	157.8	220.6	336.0	807.9	1889.0	2033.2	1960.2	974.2	522.7	256.3
85°	78.1	81.5	115.4	179.9	458.2	597.4	614.4	658.5	505.8	356.4	137.5
87.5°	30.5	30.5	42.4	74.7	169.7	185.0	166.3	202.0	290.2	230.8	67.9
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°	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8
2.5°	1646.3	1632.7	1631.0	1608.9	1615.7	1597.0	1598.7	1595.3	1597.0	1593.6	1585.2
5°	1637.8	1627.6	1598.7	1617.4	1600.4	1624.2	1642.9	1636.1	1641.2	1639.5	1641.2
7.5°	1649.7	1636.1	1632.7	1622.5	1637.8	1648.0	1663.2	1705.7	1702.3	1707.4	1717.5
10°	1685.3	1670.0	1659.8	1675.1	1666.6	1698.9	1715.8	1737.9	1776.9	1778.6	1758.3
12.5°	1754.9	1744.7	1724.3	1727.7	1756.6	1766.8	1776.9	1790.5	1816.0	1810.9	1829.6
15°	1834.6	1812.6	1800.7	1797.3	1804.1	1816.0	1814.3	1827.9	1841.4	1853.3	1848.2
17.5°	1892.4	1863.5	1866.9	1883.9	1882.2	1878.8	1856.7	1849.9	1856.7	1863.5	1860.1
20°	1951.8	1955.1	1929.7	1914.4	1907.6	1873.7	1856.7	1836.3	1816.0	1826.2	1841.4
22.5°	2026.4	2011.2	1973.8	1928.0	1894.0	1873.7	1821.1	1785.4	1785.4	1795.6	1790.5
25°	2111.3	2079.0	2014.5	1931.4	1889.0	1802.4	1765.1	1760.0	1746.4	1761.7	1768.5
27.5°	2177.5	2148.6	2060.4	1919.5	1802.4	1732.8	1710.8	1704.0	1726.0	1727.7	1754.9
30°	2204.6	2196.1	2067.2	1889.0	1714.1	1602.1	1588.6	1619.1	1642.9	1678.5	1680.2
32.5°	2240.3	2243.7	2077.3	1817.7	1598.7	1486.7	1466.4	1503.7	1571.6	1600.4	1622.5
35°	2299.7	2316.6	2068.9	1729.4	1476.5	1369.6	1366.2	1376.4	1442.6	1493.5	1522.4
37.5°	2403.2	2399.8	2067.2	1624.2	1379.8	1267.8	1240.6	1244.0	1288.2	1330.6	1325.5
40°	2542.4	2528.8	2062.1	1486.7	1254.2	1181.2	1135.4	1118.4	1115.0	1103.2	1106.6
42.5°	2732.5	2705.3	2060.4	1347.6	1140.5	1062.4	1030.2	986.1	953.8	892.7	896.1
45°	2997.2	2949.7	2016.2	1216.9	1028.5	964.0	914.8	882.5	812.9	736.6	736.6
47.5°	3406.2	3251.8	2017.9	1072.6	919.9	867.3	833.3	777.3	702.6	641.5	634.7
50°	4008.7	3655.7	1960.2	958.9	831.6	796.0	760.3	695.8	624.6	582.1	587.2
52.5°	4786.0	4258.2	1958.5	857.1	762.0	736.6	697.5	639.8	587.2	560.1	549.9
55°	5712.7	5055.9	2019.6	773.9	690.8	677.2	660.2	612.7	561.8	538.0	536.3
57.5°	6661.4	5834.9	2118.1	714.5	629.7	639.8	628.0	590.6	549.9	522.7	519.3
60°	7504.9	6452.7	1919.5	643.2	575.3	597.4	614.4	582.1	560.1	558.4	546.5
62.5°	8141.4	6717.4	1459.6	588.9	546.5	587.2	633.0	653.4	643.2	656.8	658.5
65°	8373.9	6557.9	1004.7	560.1	524.4	611.0	712.8	706.0	646.6	621.2	634.7
67.5°	8048.0	5911.3	745.1	526.1	509.2	660.2	758.6	673.8	583.8	580.4	570.3
70°	6921.1	5010.1	607.6	490.5	483.7	633.0	738.3	624.6	549.9	527.8	517.6
72°	5514.1	3901.8	532.9	465.0	443.0	565.2	690.8	585.5	521.0	493.9	482.0
72.5°	5033.8	3616.7	522.7	453.1	434.5	549.9	667.0	573.6	514.2	490.5	471.8
75°	2761.3	1851.6	459.9	415.8	366.6	475.2	617.8	538.0	485.4	451.4	448.1
77.5°	1026.8	717.9	397.1	368.3	317.4	410.7	561.8	510.9	441.3	398.8	390.4
80°	393.7	378.5	324.2	310.6	266.5	359.8	517.6	458.2	375.1	332.6	319.1
82.5°	239.3	220.6	246.1	242.7	203.7	327.6	487.1	429.4	332.6	269.9	261.4
85°	130.7	130.7	171.4	164.6	142.6	261.4	368.3	285.1	210.4	173.1	176.5
87.5°	57.7	67.9	91.6	86.6	78.1	147.7	179.9	151.0	105.2	71.3	76.4
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)