

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: P478271

Luminaire Tested: **IFLD-S-SA2D-827-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478271  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-827-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

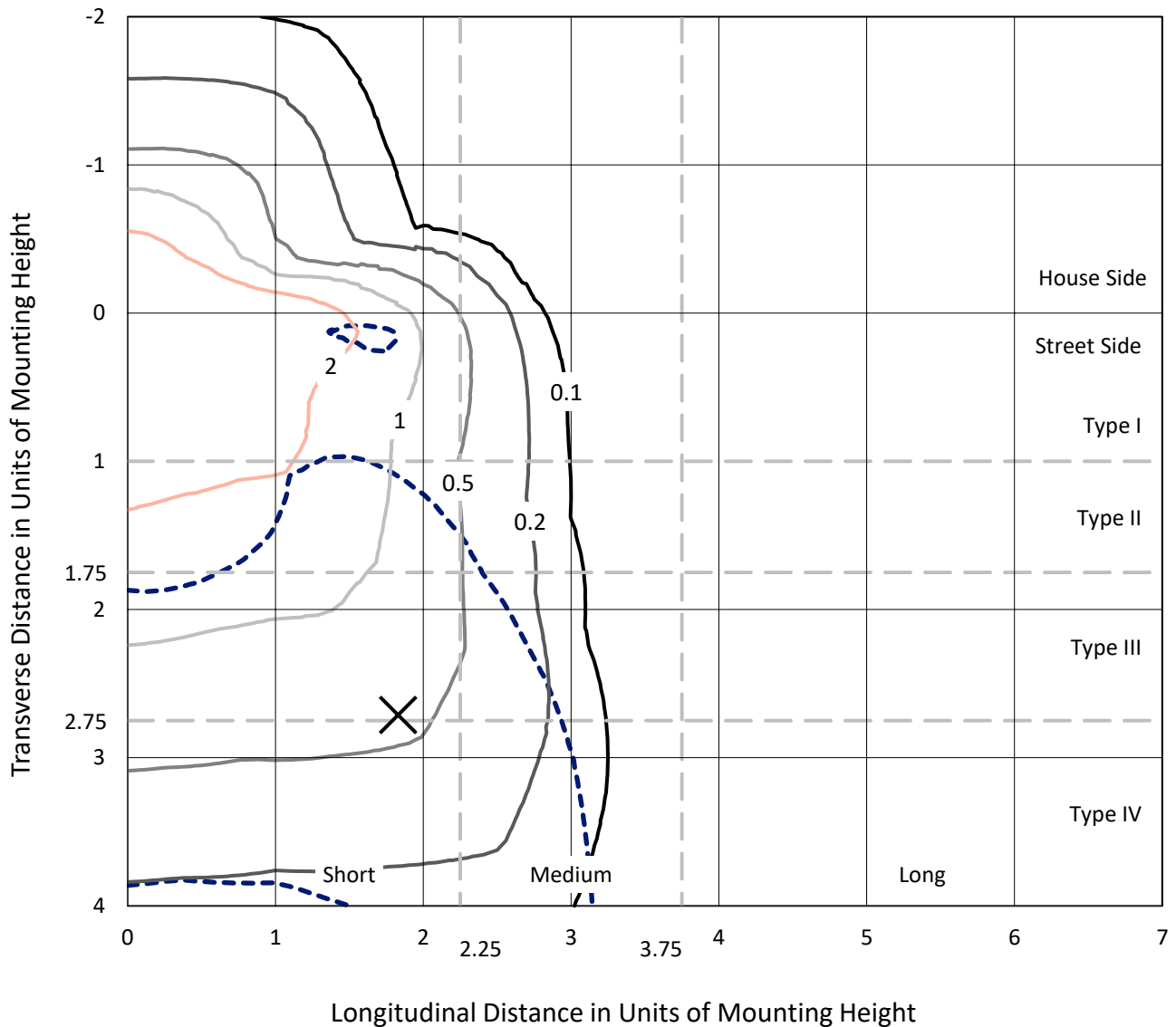
Lumens per Lamp: N/A  
Luminaire Lumens: 11778.2 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

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

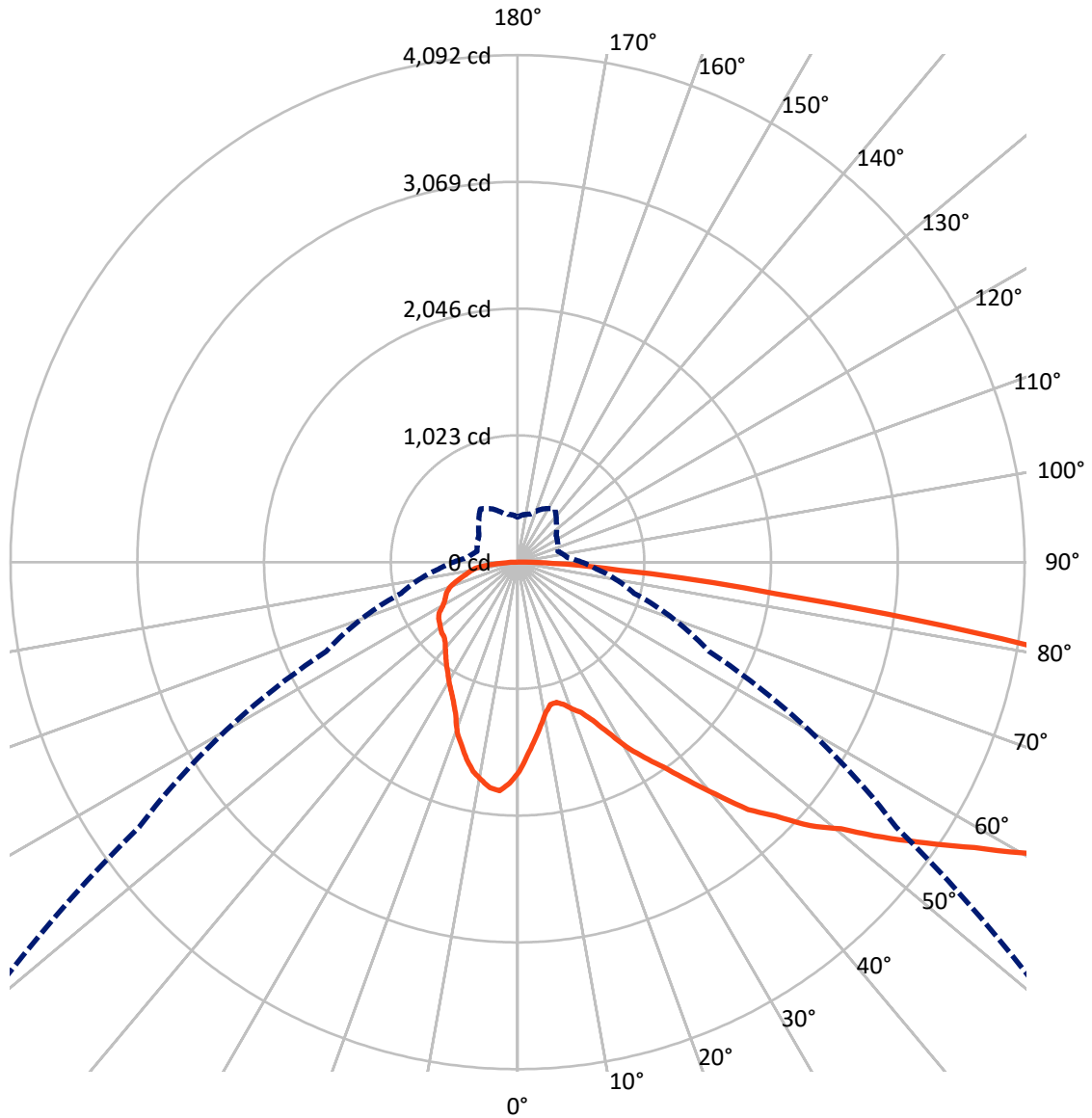
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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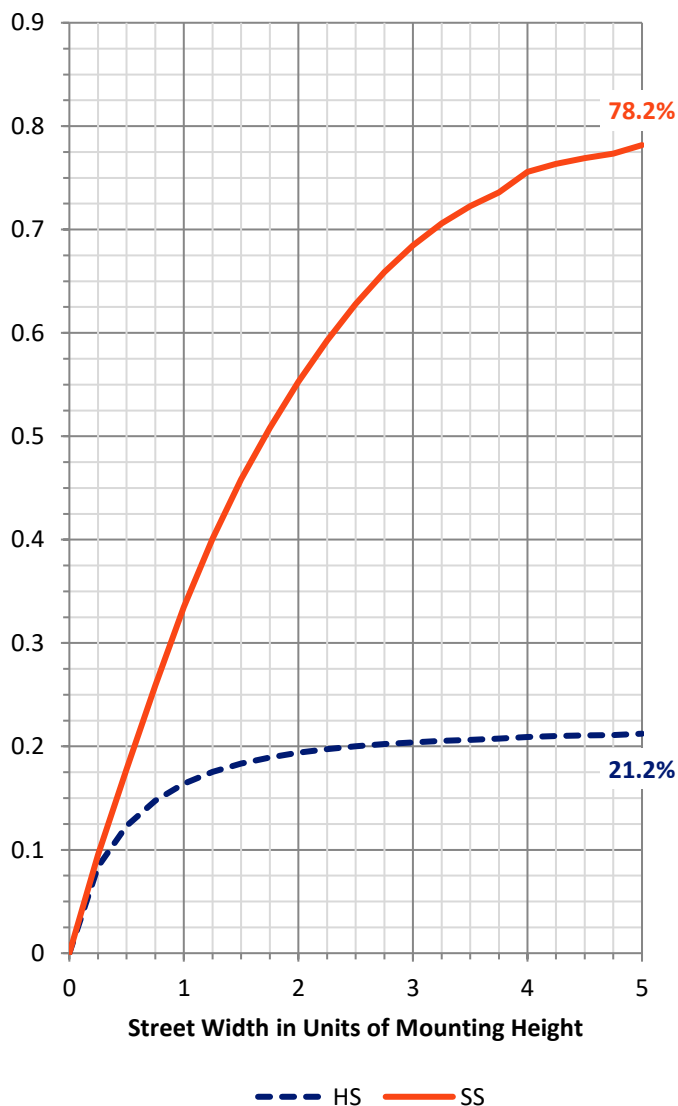
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2544.2	0.0	2544.2
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	9234.0	0.0	9234.0
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	11778.2	0.0	11778.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.8	1.3
10°-20°	436.2	3.7
20°-30°	717.8	6.1
30°-40°	1073.5	9.1
40°-50°	1591.5	13.5
50°-60°	2293.5	19.5
60°-70°	2926.8	24.8
70°-80°	2277.5	19.3
80°-90°	305.5	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°	11778.2	100.0
0°-180°	11778.2	100.0

**Coefficient of Utilization**



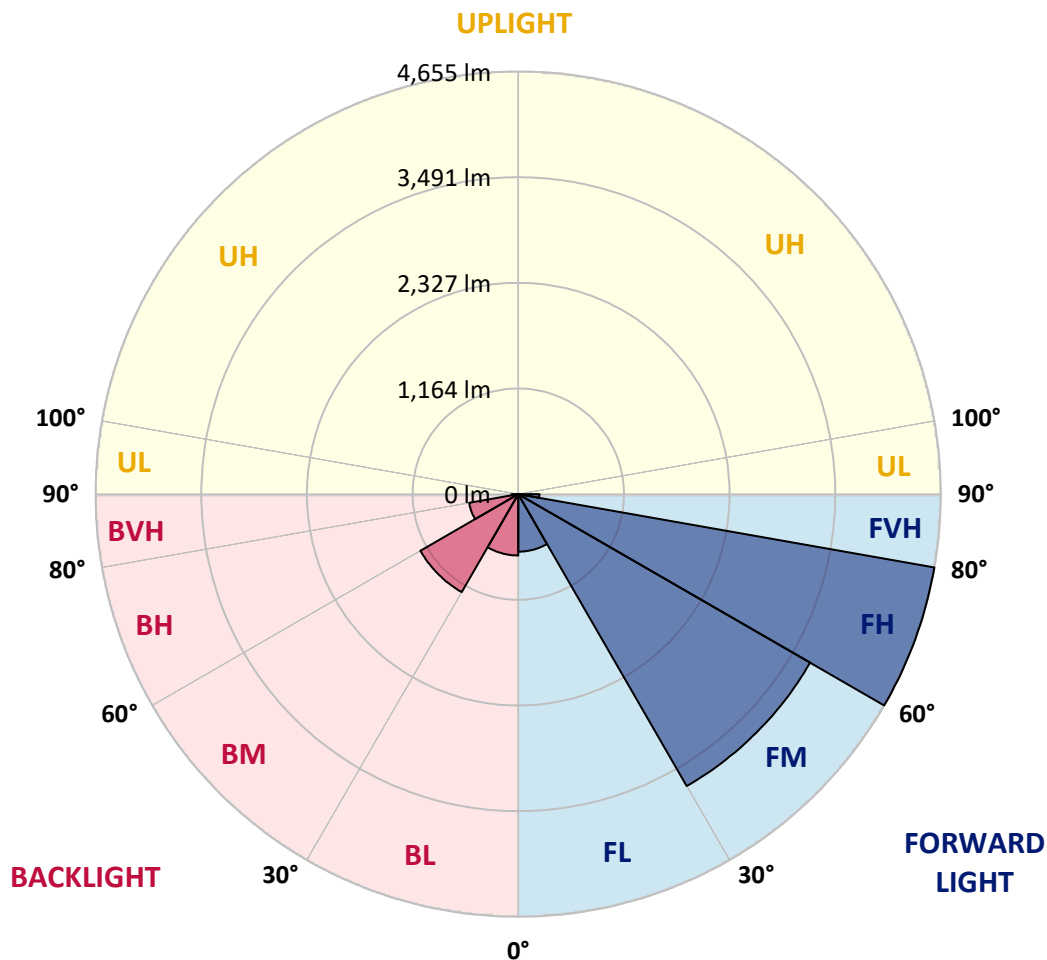
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	633.9	5.4			
FM (30°-60°)	3712.6	31.5			
FH (60°-80°)	4655.0	39.5			G2/5000
FVH (80°-90°)	232.6	2.0			G3/500
BL (0°-30°)	676.0	5.7	B2/1000		
BM (30°-60°)	1245.9	10.6	B2/2500		
BH (60°-80°)	549.4	4.7	B2/1000		G2/1000
BVH (80°-90°)	73.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6
2.5°	1513.0	1518.0	1534.2	1537.9	1555.3	1545.4	1566.6	1603.9	1625.1	1656.2	1693.6
5°	1393.5	1372.3	1382.3	1420.9	1440.8	1445.8	1468.2	1531.7	1571.5	1617.6	1687.3
7.5°	1252.7	1249.0	1268.9	1293.8	1333.7	1337.4	1387.2	1443.3	1525.5	1627.6	1709.8
10°	1156.9	1173.0	1184.3	1210.4	1237.8	1237.8	1301.3	1398.4	1491.8	1590.2	1714.7
12.5°	1151.9	1141.9	1144.4	1158.1	1178.0	1202.9	1262.7	1349.9	1468.2	1582.7	1735.9
15°	1168.1	1171.8	1149.4	1166.8	1174.3	1183.0	1249.0	1347.4	1453.2	1608.9	1772.0
17.5°	1254.0	1232.8	1198.0	1181.8	1207.9	1207.9	1252.7	1329.9	1455.7	1622.6	1824.3
20°	1321.2	1321.2	1263.9	1246.5	1265.2	1261.5	1292.6	1349.9	1468.2	1650.0	1882.8
22.5°	1434.6	1450.7	1356.1	1320.0	1318.7	1328.7	1356.1	1404.7	1503.0	1688.6	1938.9
25°	1597.7	1601.4	1491.8	1454.5	1414.6	1430.8	1435.8	1484.4	1534.2	1733.4	2002.4
27.5°	1779.5	1777.0	1676.1	1582.7	1556.6	1560.3	1532.9	1565.3	1580.2	1747.1	2093.3
30°	1981.2	1958.8	1882.8	1750.9	1729.7	1706.0	1646.2	1645.0	1676.1	1824.3	2219.1
32.5°	2113.2	2084.6	2032.3	1937.6	1879.1	1881.6	1787.0	1785.7	1758.3	1909.0	2328.7
35°	2242.7	2199.1	2185.5	2088.3	2029.8	2036.0	1960.1	1950.1	1900.3	2037.3	2509.2
37.5°	2398.4	2359.8	2381.0	2307.5	2235.3	2205.4	2170.5	2158.1	2093.3	2217.8	2755.8
40°	2570.2	2557.8	2544.1	2508.0	2464.4	2466.9	2429.5	2417.1	2321.2	2435.7	2992.4
42.5°	2801.9	2754.5	2683.6	2707.2	2729.6	2753.3	2740.8	2708.5	2608.8	2657.4	3256.4
45°	3017.3	2955.0	2824.3	2831.7	2923.9	2942.6	3093.3	3089.5	2889.0	2938.8	3556.5
47.5°	3163.0	3134.3	3055.9	3047.2	3179.2	3177.9	3449.4	3449.4	3184.2	3219.0	3879.0
50°	3379.7	3304.9	3271.3	3314.9	3382.2	3428.2	3813.0	3836.7	3474.3	3511.7	4301.2
52.5°	3633.7	3540.3	3455.6	3567.7	3687.2	3717.1	4172.9	4162.9	3697.2	3851.6	4795.5
55°	3844.2	3796.8	3738.3	3803.1	3998.6	4035.9	4534.0	4441.9	3920.1	4133.1	5033.4
57.5°	4089.5	4118.1	4130.6	4114.4	4347.2	4405.8	4946.2	4682.2	4111.9	4322.3	5172.9
60°	4459.3	4476.7	4492.9	4531.5	4778.1	4860.3	5272.5	4983.6	4232.7	4431.9	5184.1
62.5°	5022.2	4954.9	4991.0	5124.3	5322.3	5415.7	5753.2	5195.3	4324.8	4497.9	4818.0
65°	5666.0	5575.1	5537.7	5709.6	6222.6	6147.9	6353.4	5353.4	4191.6	4251.4	4085.7
67.5°	6318.5	6328.5	6232.6	6577.5	7206.4	7206.4	6911.3	5429.4	3830.5	3445.7	2865.4
70°	6836.5	6867.7	6920.0	7588.7	8584.9	8735.6	7602.4	5118.1	3094.5	2293.8	1566.6
72.5°	6829.1	6735.7	7003.4	8235.0	9837.6	9711.9	7746.8	4047.1	1931.4	1123.2	718.5
73°	6675.9	6597.4	6890.1	8228.8	9888.7	9770.4	7641.0	3730.8	1703.5	973.8	638.8
75°	5451.8	5309.8	5807.9	7452.9	9149.0	9239.9	6491.6	2433.3	934.0	600.2	449.5
77.5°	2485.6	2547.8	3196.6	4999.8	7050.7	7157.8	4267.5	1052.3	511.8	420.9	331.2
80°	798.2	838.1	1244.0	2485.6	4419.5	4612.5	1972.5	478.2	364.9	322.5	247.8
82.5°	305.1	303.8	521.8	1033.6	2094.5	2217.8	721.0	291.4	271.5	237.8	175.6
85°	107.1	112.1	196.8	408.4	824.4	863.0	250.3	161.9	188.0	159.4	100.9
87.5°	37.4	38.6	69.7	148.2	283.9	300.1	69.7	64.8	93.4	92.2	51.1
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°	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6	1688.6
2.5°	1706.0	1717.2	1721.0	1765.8	1765.8	1765.8	1783.2	1783.2	1778.2	1765.8	1795.7
5°	1713.5	1733.4	1772.0	1810.6	1820.6	1829.3	1853.0	1833.0	1840.5	1828.1	1839.3
7.5°	1734.7	1762.1	1834.3	1857.9	1841.8	1860.4	1835.5	1821.8	1808.1	1813.1	1795.7
10°	1770.8	1805.6	1839.3	1882.8	1851.7	1833.0	1782.0	1769.5	1725.9	1711.0	1724.7
12.5°	1815.6	1857.9	1915.2	1899.0	1839.3	1785.7	1730.9	1678.6	1652.5	1615.1	1625.1
15°	1860.4	1909.0	1917.7	1890.3	1815.6	1748.4	1648.7	1575.3	1549.1	1515.5	1532.9
17.5°	1909.0	1955.1	1940.1	1869.2	1768.3	1666.2	1552.9	1480.6	1425.8	1404.7	1404.7
20°	1981.2	2003.6	1980.0	1834.3	1711.0	1576.5	1466.9	1384.7	1329.9	1321.2	1307.5
22.5°	2037.3	2073.4	1967.5	1783.2	1627.6	1459.5	1333.7	1302.6	1286.4	1272.7	1255.2
25°	2109.5	2108.2	1945.1	1735.9	1484.4	1320.0	1244.0	1241.5	1234.1	1229.1	1252.7
27.5°	2178.0	2149.3	1919.0	1618.9	1336.2	1214.1	1173.0	1200.4	1211.6	1204.2	1214.1
30°	2286.3	2239.0	1881.6	1494.3	1205.4	1107.0	1114.5	1151.9	1170.6	1181.8	1166.8
32.5°	2400.9	2328.7	1804.4	1364.8	1089.6	1039.8	1057.2	1095.8	1118.3	1130.7	1144.4
35°	2566.5	2398.4	1725.9	1195.5	1006.2	998.7	1008.7	1029.8	1062.2	1070.9	1074.7
37.5°	2770.7	2504.2	1620.1	1059.7	941.4	950.1	960.1	967.6	968.8	985.0	978.8
40°	2975.0	2593.9	1465.7	930.2	874.2	921.5	916.5	902.8	891.6	876.7	872.9
42.5°	3154.3	2672.4	1293.8	820.6	814.4	891.6	875.4	840.6	814.4	803.2	784.5
45°	3356.0	2783.2	1120.7	752.1	768.3	855.5	850.5	797.0	763.4	723.5	718.5
47.5°	3617.5	2899.0	955.1	681.2	724.7	841.8	844.3	775.8	727.2	673.7	666.2
50°	3952.5	3065.9	829.4	651.3	698.6	821.9	825.6	747.2	683.7	628.9	623.9
52.5°	4273.8	3236.5	724.7	605.2	681.2	798.2	806.9	721.0	647.5	579.1	582.8
55°	4435.7	3174.2	635.1	571.6	641.3	759.6	792.0	702.3	592.7	545.4	544.2
57.5°	4471.8	3021.0	564.1	536.7	607.7	718.5	767.1	646.3	567.8	528.0	523.0
60°	4353.5	2753.3	508.1	499.4	565.4	676.2	709.8	616.4	542.9	510.6	503.1
62.5°	4062.1	2475.6	469.5	481.9	529.2	630.1	673.7	595.2	519.3	496.9	480.7
65°	3331.1	2036.0	438.3	448.3	491.9	585.3	651.3	571.6	498.1	476.9	475.7
67.5°	2307.5	1403.4	413.4	432.1	462.0	552.9	628.9	545.4	470.7	463.2	453.3
70°	1181.8	748.4	381.1	396.0	429.6	511.8	589.0	518.0	442.1	440.8	428.4
72.5°	599.0	438.3	343.7	366.1	389.8	458.3	539.2	481.9	406.0	392.3	372.3
73°	518.0	406.0	337.5	357.4	379.8	443.3	524.3	473.2	401.0	381.1	362.4
75°	377.3	320.0	302.6	322.5	340.0	399.7	474.4	433.4	368.6	347.4	330.0
77.5°	282.7	246.6	251.5	274.0	288.9	344.9	422.1	392.3	333.7	305.1	297.6
80°	208.0	188.0	208.0	229.1	240.3	303.8	384.8	340.0	281.4	249.1	242.8
82.5°	148.2	137.0	160.6	174.3	179.3	251.5	346.2	271.5	212.9	170.6	156.9
85°	84.7	83.4	108.3	107.1	110.8	146.9	227.9	180.6	137.0	104.6	102.1
87.5°	37.4	41.1	54.8	43.6	46.1	69.7	97.1	67.2	56.0	31.1	23.7
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)