

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: P319096

Luminaire Tested: **GAN-SA2D-750-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-750-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15765 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

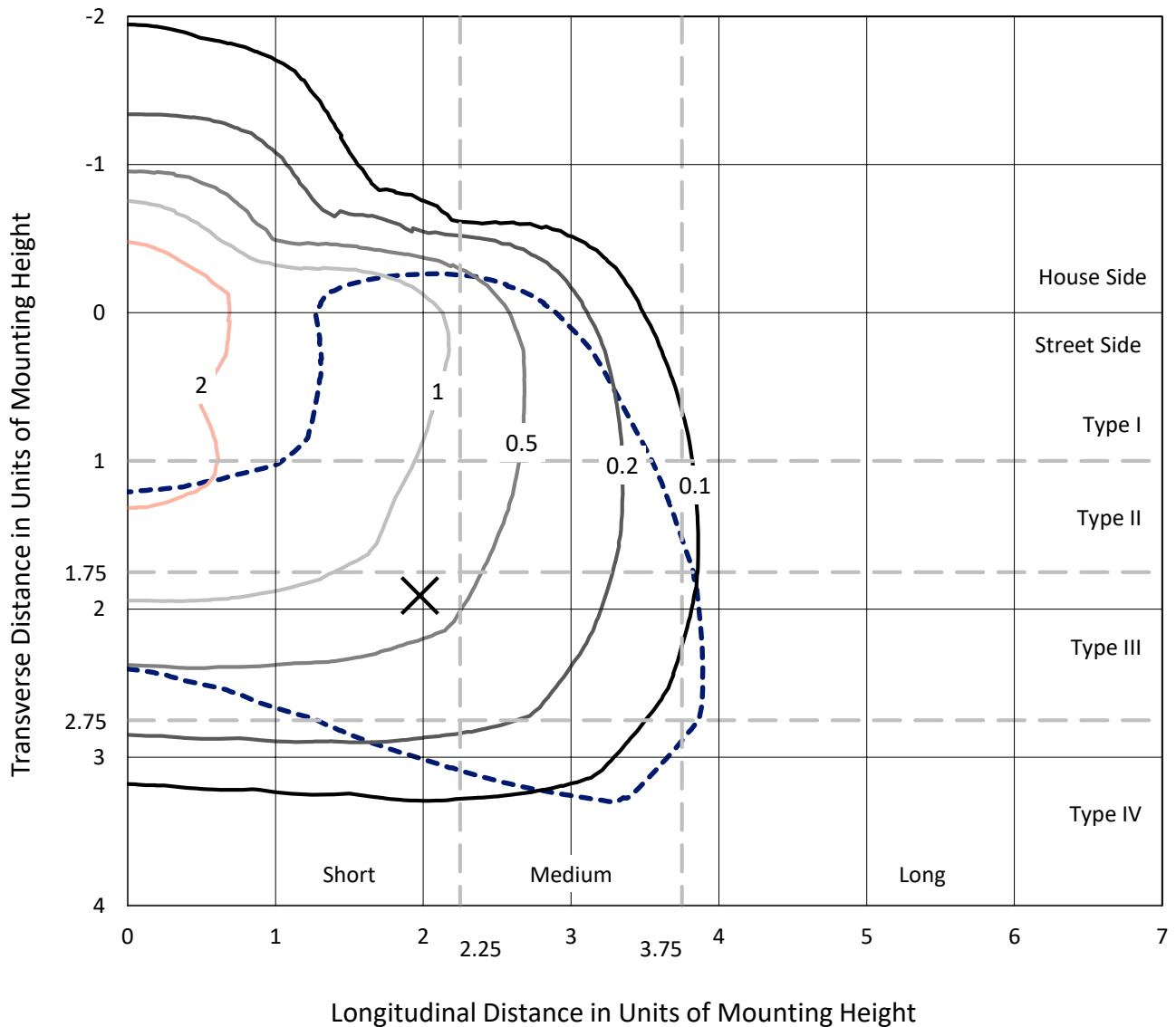
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

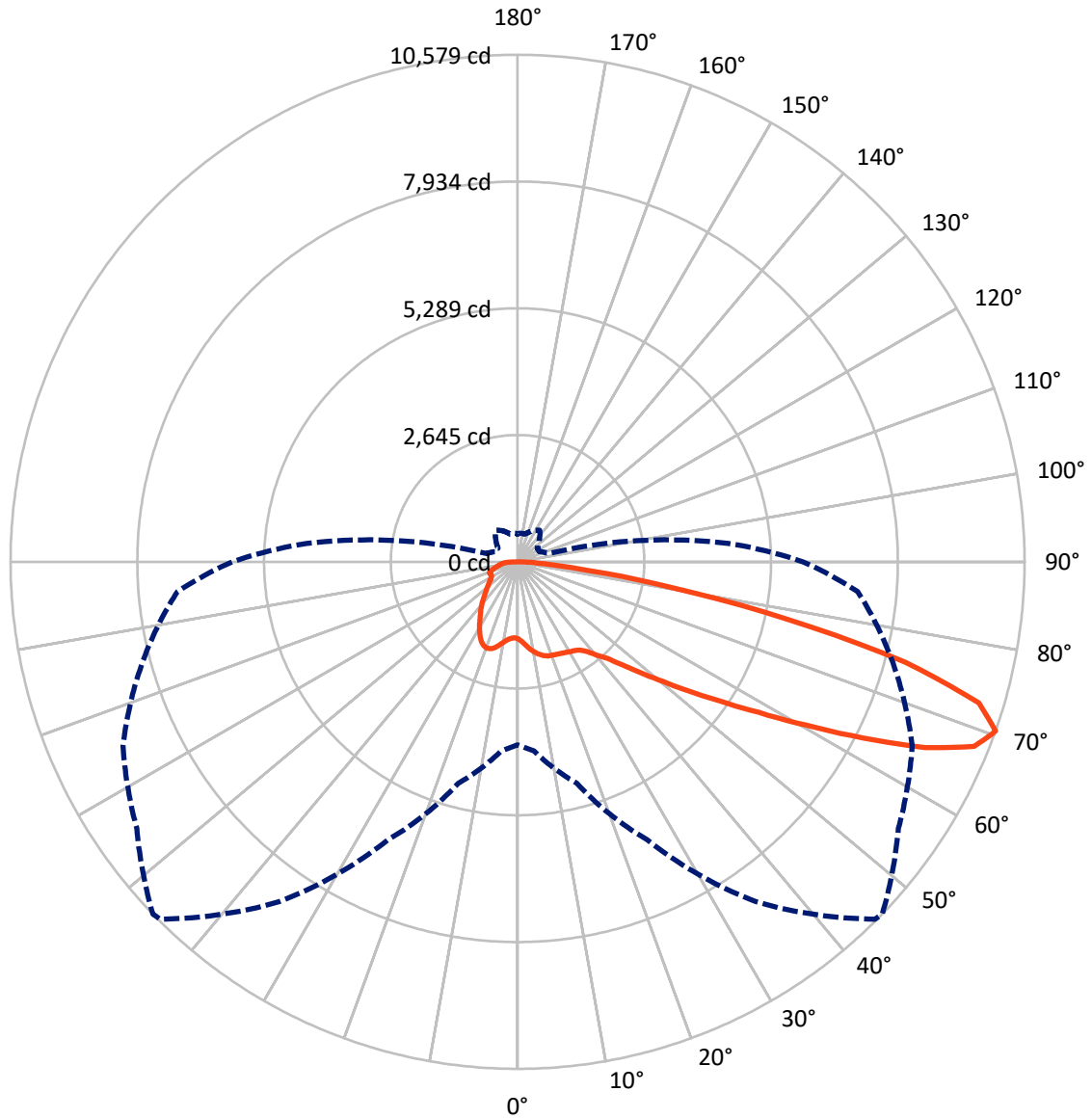
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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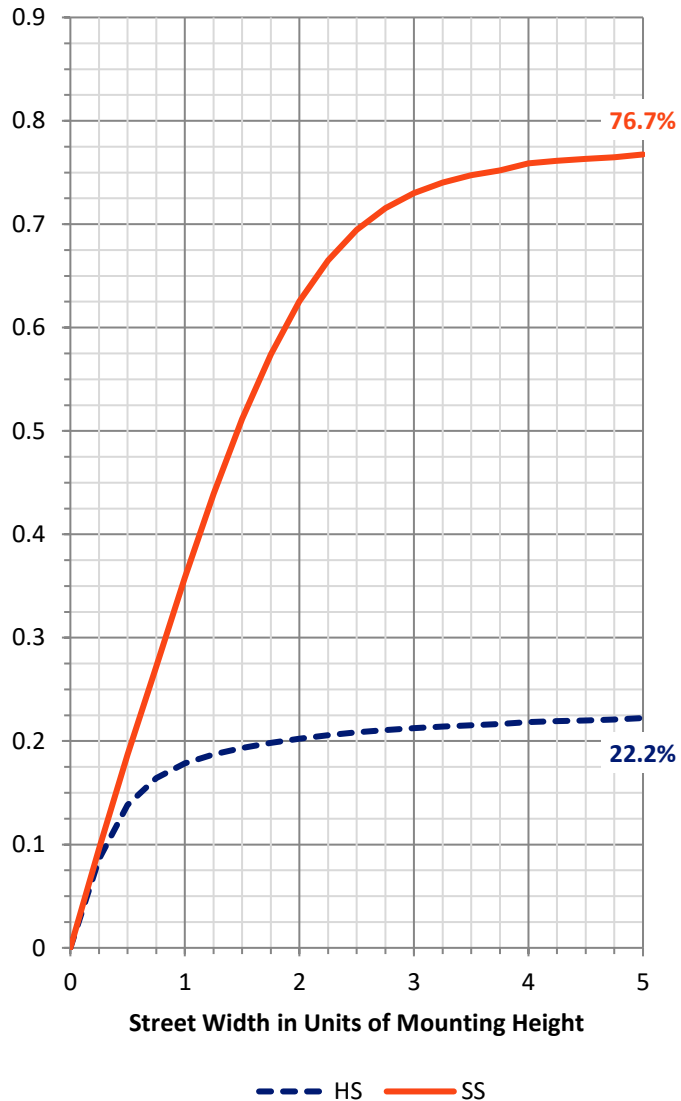
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3613.3	0.0	3613.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	12151.7	0.0	12151.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	15765.0	0.0	15765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	1.0
10°-20°	545.5	3.5
20°-30°	909.6	5.8
30°-40°	1290.8	8.2
40°-50°	1898.6	12.0
50°-60°	3215.3	20.4
60°-70°	4564.1	29.0
70°-80°	2772.7	17.6
80°-90°	404.6	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°	15765.0	100.0
0°-180°	15765.0	100.0

Coefficient of Utilization



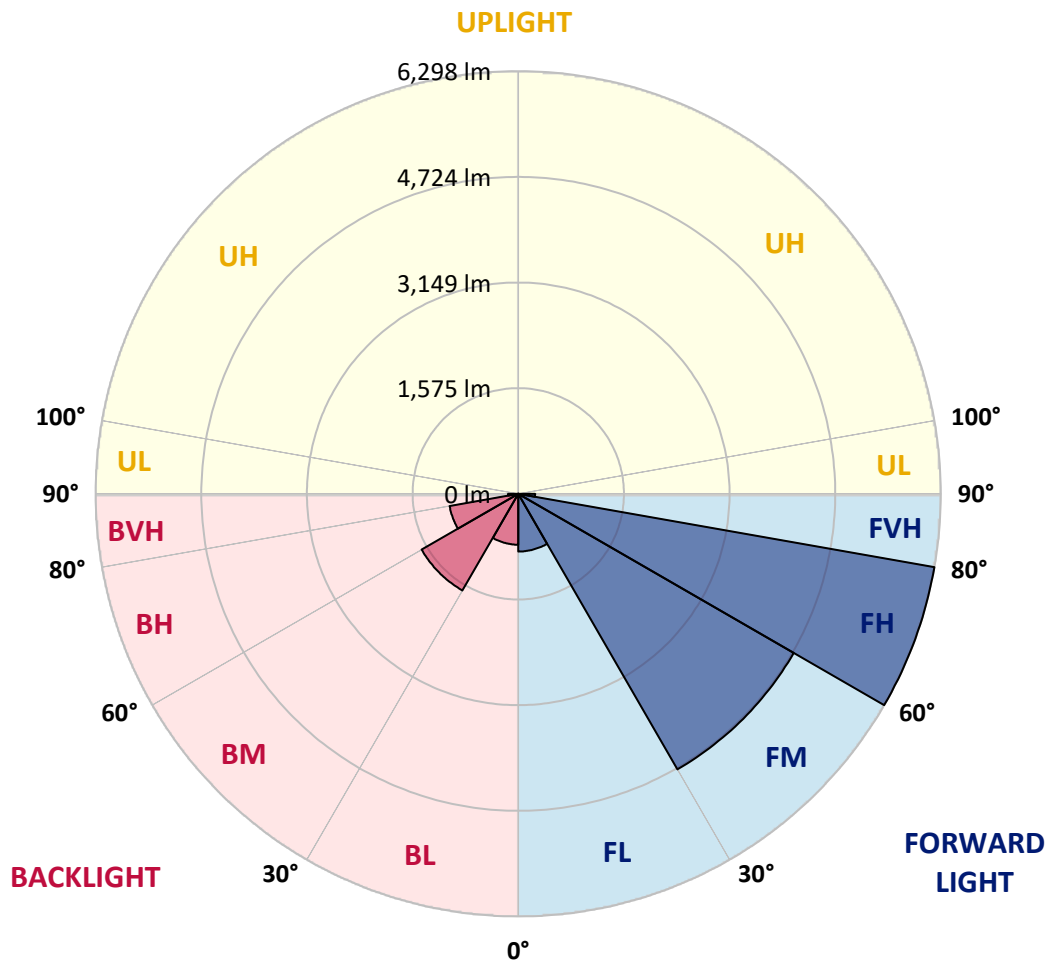
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	860.2	5.5			
FM (30°-60°)	4741.4	30.1			
FH (60°-80°)	6298.0	39.9			G3/7500
FVH (80°-90°)	252.1	1.6			G3/500
BL (0°-30°)	758.6	4.8	B2/1000		
BM (30°-60°)	1663.3	10.6	B2/2500		
BH (60°-80°)	1038.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	152.6	1.0			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°	45°	46°	55°	65°	75°	85°
0°	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1
2.5°	1686.5	1687.6	1689.8	1684.4	1669.3	1665.0	1663.3	1647.7	1637.4	1622.3	1609.4
5°	1821.4	1822.5	1819.3	1804.1	1770.7	1745.9	1743.7	1708.1	1675.7	1641.2	1615.3
7.5°	1962.2	1963.8	1953.6	1925.0	1878.1	1834.9	1832.2	1783.6	1734.6	1682.2	1643.4
10°	2086.9	2080.4	2063.7	2023.7	1968.2	1915.3	1913.1	1862.4	1805.8	1742.6	1690.8
12.5°	2169.9	2164.5	2143.0	2094.4	2033.4	1984.9	1980.6	1933.6	1878.6	1809.5	1747.5
15°	2215.8	2219.6	2190.4	2135.4	2076.1	2035.1	2031.3	1997.8	1948.7	1879.1	1807.9
17.5°	2221.7	2225.0	2196.9	2142.4	2093.9	2065.8	2064.2	2042.1	2006.5	1939.6	1865.1
20°	2187.2	2189.4	2166.2	2121.4	2089.6	2080.9	2080.4	2070.7	2044.2	1984.9	1912.6
22.5°	2137.0	2138.6	2121.9	2089.6	2078.8	2092.3	2096.0	2092.3	2073.4	2017.8	1949.8
25°	2124.6	2123.5	2106.3	2073.4	2082.5	2111.1	2116.0	2117.6	2104.7	2056.1	1997.3
27.5°	2184.5	2180.7	2147.8	2094.9	2100.9	2135.4	2141.9	2157.5	2149.4	2106.8	2051.2
30°	2357.7	2351.2	2283.8	2177.0	2147.8	2165.6	2173.7	2198.5	2200.2	2164.5	2123.0
32.5°	2650.1	2642.0	2521.2	2330.2	2227.1	2196.4	2203.9	2241.2	2261.1	2233.6	2188.8
35°	3019.7	3010.5	2851.9	2590.8	2359.9	2255.2	2260.6	2290.3	2330.2	2291.3	2232.0
37.5°	3404.9	3382.8	3230.1	2897.2	2570.8	2380.9	2380.9	2384.7	2403.6	2322.6	2282.7
40°	3788.0	3765.8	3627.7	3257.6	2843.8	2578.9	2566.5	2482.9	2467.8	2398.2	2384.7
42.5°	4144.0	4137.6	4056.1	3664.9	3164.3	2773.7	2756.4	2614.5	2617.7	2574.6	2575.1
45°	4522.8	4522.8	4456.4	4076.1	3537.6	3086.6	3069.3	2860.5	2892.9	2872.9	2921.0
47.5°	4831.9	4841.6	4832.5	4504.4	3971.9	3484.2	3452.9	3201.5	3292.1	3360.7	3500.4
50°	5147.5	5162.6	5164.3	4974.4	4496.9	3956.8	3921.2	3654.2	3856.5	4052.9	4327.5
52.5°	5605.6	5639.6	5504.2	5443.2	5140.0	4517.9	4482.9	4236.3	4574.0	4849.7	5322.9
55°	6030.2	6000.5	5903.9	5941.7	5828.4	5156.7	5130.3	4913.9	5373.6	5731.8	6346.3
57.5°	6260.0	6257.9	6355.0	6516.8	6570.8	5944.4	5922.3	5711.9	6275.1	6544.4	7307.2
60°	6529.8	6533.6	6774.2	7141.6	7363.9	6925.3	6915.5	6755.8	7150.8	7302.9	8060.9
62.5°	6567.6	6635.5	7049.9	7682.2	8106.3	8071.2	8092.8	7696.2	7934.2	7908.3	8623.7
65°	6133.2	6222.8	6972.7	7845.7	8844.3	9324.5	9344.5	8642.0	8551.9	8425.7	8824.9
67.5°	5243.0	5375.8	6190.4	7490.1	9087.6	10250.8	10278.9	9375.2	9064.4	8601.0	8340.4
70°	3815.5	3962.8	4782.8	6397.1	8653.9	10547.0	10578.9	9699.5	9083.9	8101.9	7120.0
72.5°	2304.8	2420.3	3096.3	4709.5	7304.0	10007.5	10064.2	9288.3	8293.5	6862.7	5257.6
75°	1012.1	1087.7	1497.2	2713.8	5229.0	8280.0	8350.7	7950.3	6738.6	4987.3	3107.6
77.5°	431.1	452.7	614.0	1178.8	2956.0	5657.9	5755.0	5809.0	4571.9	2713.8	1313.2
80°	268.7	277.3	347.4	533.6	1383.3	3177.8	3282.4	3417.8	2270.3	997.6	458.6
82.5°	163.5	173.2	230.9	322.6	720.3	1440.5	1490.7	1586.2	881.0	431.1	237.4
85°	98.2	105.2	141.4	203.9	410.0	566.5	566.0	625.8	414.9	277.3	125.2
87.5°	46.9	52.3	75.5	105.7	206.6	212.6	199.1	225.5	252.0	181.8	63.1
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°	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1	1606.1
2.5°	1605.1	1602.9	1595.9	1590.5	1589.4	1586.2	1583.5	1585.1	1587.3	1587.8	1587.8
5°	1604.5	1598.6	1589.4	1585.6	1590.5	1597.0	1605.1	1615.9	1622.3	1627.2	1630.4
7.5°	1630.4	1619.1	1608.8	1606.7	1616.4	1633.7	1652.0	1674.7	1690.3	1701.1	1703.3
10°	1673.6	1659.6	1649.3	1651.5	1668.7	1693.5	1719.4	1748.6	1772.3	1786.9	1788.0
12.5°	1723.2	1709.7	1700.0	1709.2	1737.8	1768.0	1795.0	1820.3	1841.9	1856.5	1856.5
15°	1780.4	1770.7	1759.4	1780.4	1819.3	1846.2	1857.6	1870.0	1881.8	1892.6	1890.5
17.5°	1835.4	1826.3	1820.3	1845.2	1885.6	1898.0	1890.5	1881.3	1881.3	1887.2	1888.3
20°	1882.9	1874.8	1878.6	1902.9	1923.9	1911.0	1882.9	1853.8	1841.9	1845.2	1848.4
22.5°	1924.5	1920.7	1932.0	1943.3	1928.2	1882.9	1831.1	1791.7	1777.2	1776.1	1777.2
25°	1973.0	1972.5	1986.5	1966.0	1899.1	1815.5	1745.9	1707.6	1699.5	1706.0	1716.7
27.5°	2033.4	2039.4	2046.4	1971.4	1839.8	1713.5	1642.8	1616.4	1624.5	1640.1	1650.4
30°	2110.6	2126.8	2111.7	1957.9	1754.5	1597.0	1529.5	1522.0	1544.1	1566.2	1577.0
32.5°	2185.6	2210.9	2174.3	1922.8	1644.5	1473.4	1421.1	1418.9	1445.9	1467.5	1482.6
35°	2246.0	2296.2	2221.2	1853.2	1517.1	1359.6	1321.3	1306.7	1316.4	1341.8	1359.0
37.5°	2324.8	2408.4	2253.6	1747.0	1379.0	1265.7	1220.9	1187.5	1178.8	1189.1	1197.7
40°	2468.8	2579.4	2268.7	1598.6	1244.1	1171.8	1126.5	1077.4	1043.4	1018.6	1019.1
42.5°	2704.1	2802.3	2259.0	1418.4	1119.5	1080.1	1028.9	972.2	917.2	861.1	856.8
45°	3086.0	3133.5	2229.8	1227.4	1010.0	984.1	936.1	879.4	806.0	742.4	736.4
47.5°	3697.3	3592.1	2184.5	1060.7	913.4	902.6	858.4	793.1	715.4	664.1	659.8
50°	4530.9	4254.1	2162.4	928.0	828.2	831.4	795.2	726.2	652.8	615.1	610.7
52.5°	5527.9	5025.1	2205.0	825.5	759.6	771.0	744.0	679.3	617.7	588.1	583.8
55°	6562.2	5823.6	2250.9	751.0	694.9	717.0	707.8	654.4	598.9	571.3	567.6
57.5°	7447.5	6419.7	2159.2	690.6	637.2	671.7	679.8	638.8	589.2	564.3	560.0
60°	8004.8	6659.8	1918.5	633.9	591.3	635.6	663.6	634.5	592.9	590.8	587.5
62.5°	8269.2	6638.8	1557.6	589.2	562.7	619.9	675.5	658.8	636.1	655.5	657.1
65°	8150.5	6321.5	1160.0	559.5	542.2	625.8	711.1	704.6	648.5	667.9	670.6
67.5°	7369.3	5564.6	858.9	533.6	519.6	642.6	775.8	719.7	624.2	638.2	629.6
70°	5956.3	4411.6	662.5	504.4	496.4	640.4	805.0	710.5	597.8	601.0	577.8
72.5°	4107.4	3008.4	539.0	477.5	462.9	583.8	784.5	687.9	575.7	550.8	520.1
75°	2233.6	1614.8	458.1	449.4	404.1	512.5	746.7	671.7	555.7	522.8	505.5
77.5°	878.9	670.1	397.6	411.1	353.4	452.7	704.6	640.9	528.2	485.0	476.4
80°	358.8	342.1	329.6	355.5	303.7	396.0	653.9	604.8	495.3	450.0	432.7
82.5°	203.4	212.6	256.3	280.5	246.6	364.7	629.6	575.7	455.9	403.0	382.5
85°	104.1	124.6	178.6	201.2	181.3	310.2	580.0	503.9	365.8	308.6	310.2
87.5°	50.2	69.6	112.8	126.2	117.6	224.4	433.2	365.3	284.9	225.5	218.5
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)