

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: McGRAW-EDISON

Report Number: P319167

Luminaire Tested: **GLEON-SA3C-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319167
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: McGRAW-EDISON
Catalog Number: GLEON-SA3C-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15762 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

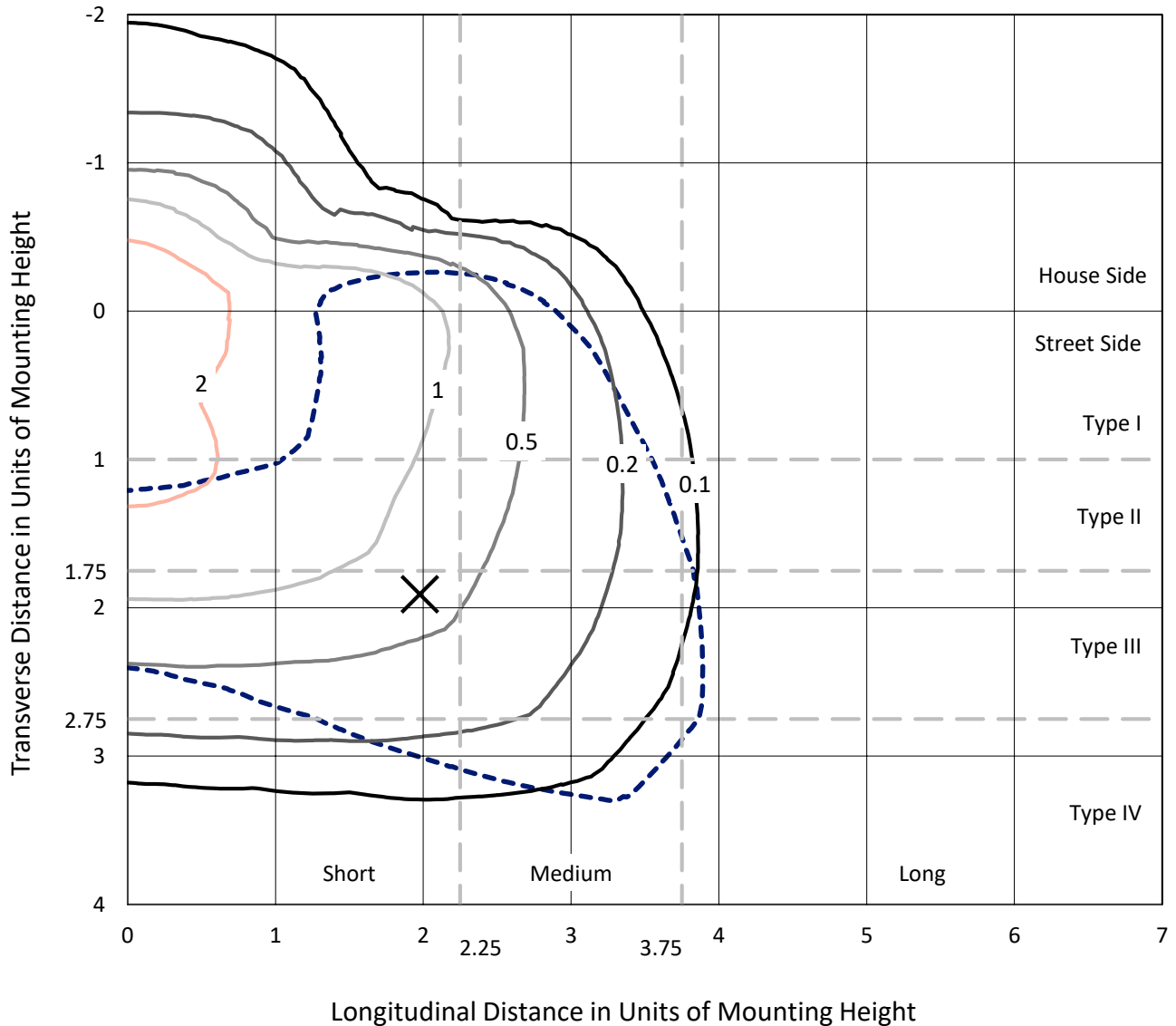
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

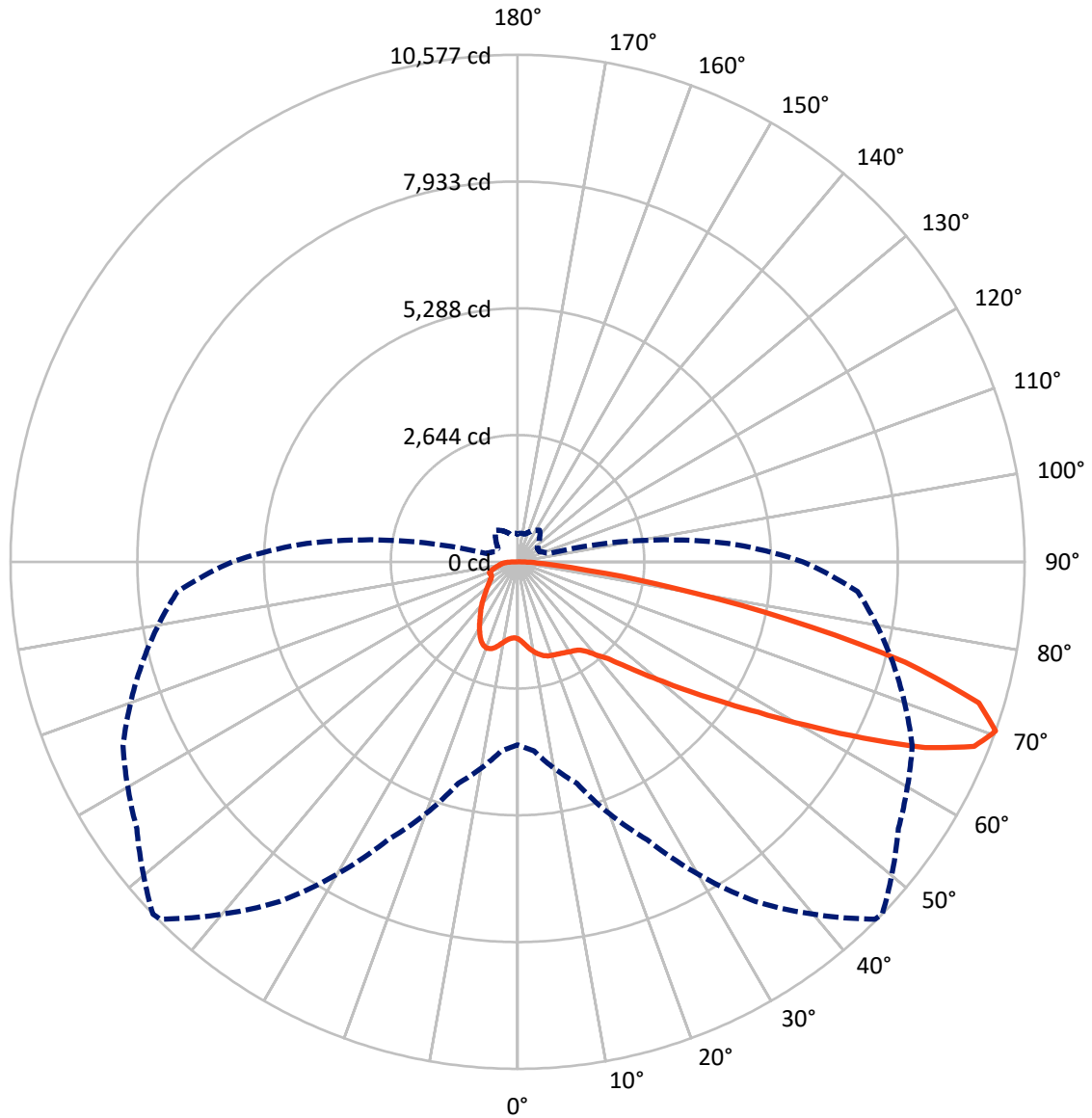
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P319167
CATALOG NUMBER: GLEON-SA3C-827-U-T4W

Luminous Intensity Polar Plot



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

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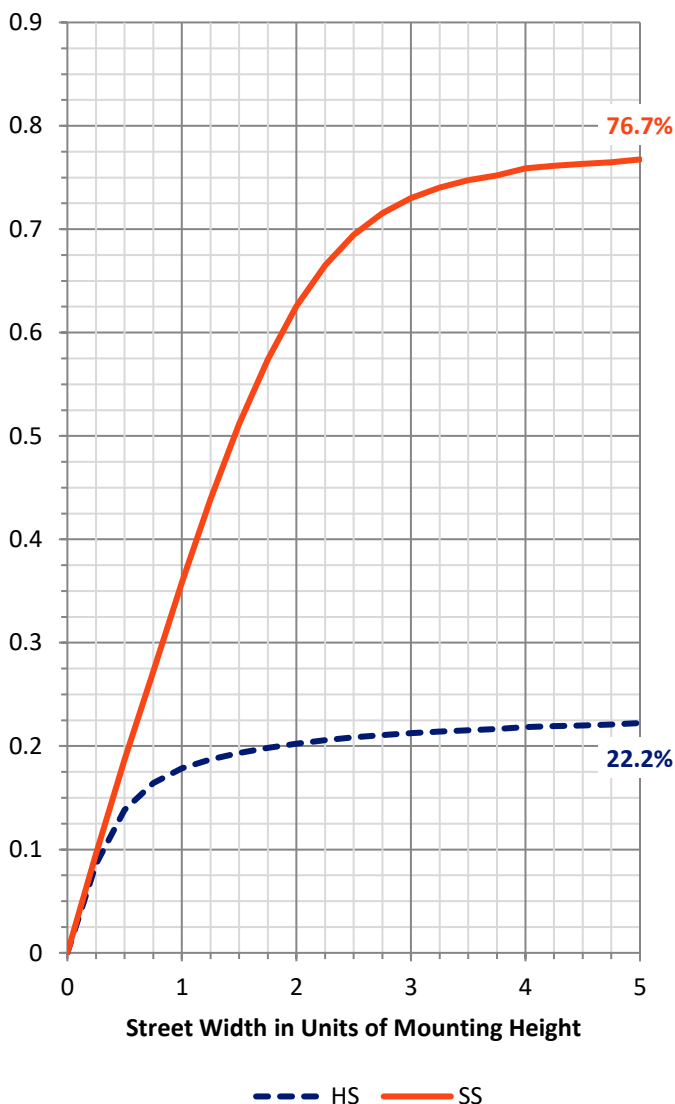
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3612.6	0.0	3612.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	12149.4	0.0	12149.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	15762.0	0.0	15762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	1.0
10°-20°	545.4	3.5
20°-30°	909.4	5.8
30°-40°	1290.5	8.2
40°-50°	1898.3	12.0
50°-60°	3214.7	20.4
60°-70°	4563.2	29.0
70°-80°	2772.2	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°	15762.0	100.0
0°-180°	15762.0	100.0

Coefficient of Utilization

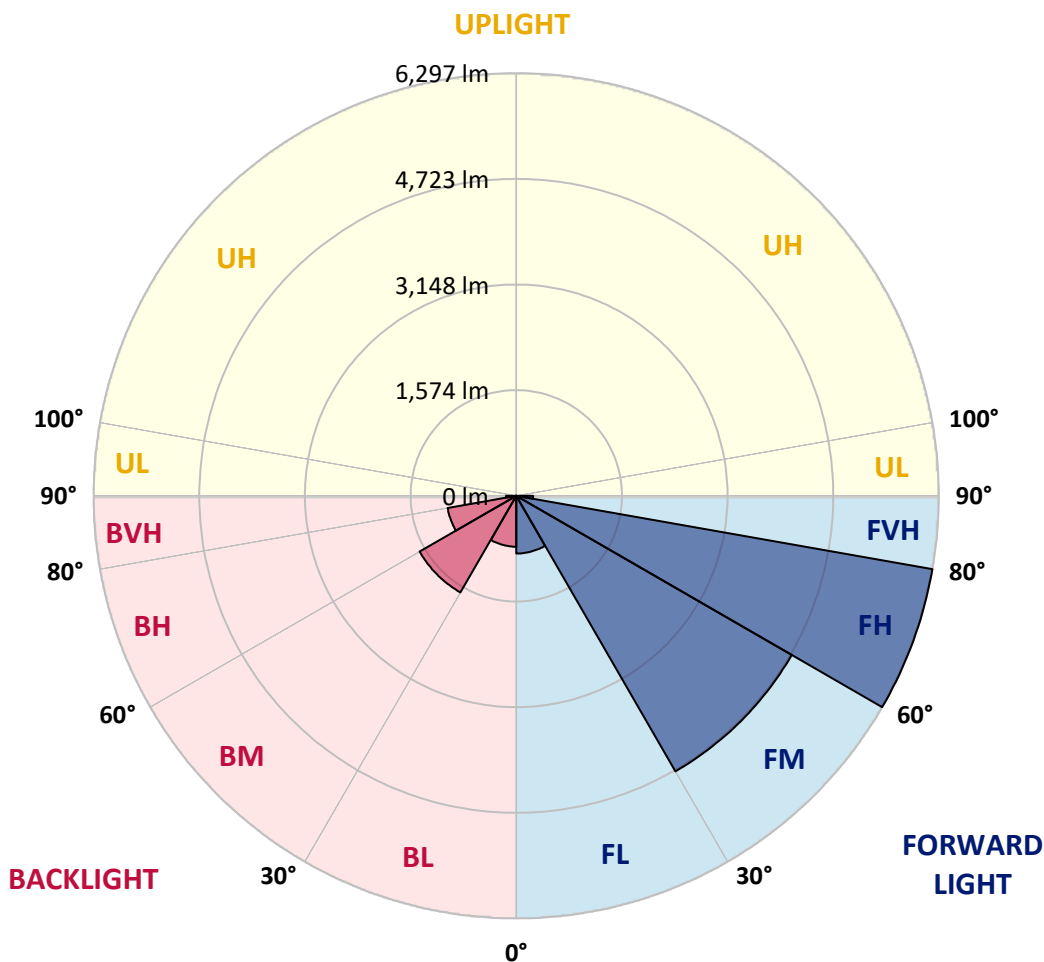


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	860.0	5.5			
FM (30°-60°)	4740.5	30.1			
FH (60°-80°)	6296.8	39.9			G3/7500
FVH (80°-90°)	252.0	1.6			G3/500
BL (0°-30°)	758.5	4.8	B2/1000		
BM (30°-60°)	1663.0	10.6	B2/2500		
BH (60°-80°)	1038.6	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°	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8
2.5°	1686.2	1687.3	1689.4	1684.1	1669.0	1664.6	1663.0	1647.4	1637.1	1622.0	1609.1
5°	1821.1	1822.1	1818.9	1803.8	1770.4	1745.5	1743.4	1707.8	1675.4	1640.9	1615.0
7.5°	1961.9	1963.5	1953.2	1924.6	1877.7	1834.6	1831.9	1783.3	1734.2	1681.9	1643.1
10°	2086.5	2080.0	2063.3	2023.3	1967.8	1914.9	1912.8	1862.1	1805.4	1742.3	1690.5
12.5°	2169.5	2164.1	2142.6	2094.0	2033.1	1984.5	1980.2	1933.3	1878.2	1809.2	1747.2
15°	2215.4	2219.2	2190.0	2135.0	2075.7	2034.7	2030.9	1997.5	1948.4	1878.8	1807.6
17.5°	2221.3	2224.5	2196.5	2142.0	2093.5	2065.4	2063.8	2041.7	2006.1	1939.2	1864.8
20°	2186.8	2188.9	2165.8	2121.0	2089.2	2080.5	2080.0	2070.3	2043.8	1984.5	1912.2
22.5°	2136.6	2138.2	2121.5	2089.2	2078.4	2091.9	2095.6	2091.9	2073.0	2017.4	1949.4
25°	2124.2	2123.1	2105.9	2073.0	2082.1	2110.7	2115.6	2117.2	2104.3	2055.7	1996.9
27.5°	2184.1	2180.3	2147.4	2094.5	2100.5	2135.0	2141.5	2157.1	2149.0	2106.4	2050.9
30°	2357.2	2350.8	2283.3	2176.5	2147.4	2165.2	2173.3	2198.1	2199.7	2164.1	2122.6
32.5°	2649.6	2641.5	2520.7	2329.7	2226.7	2196.0	2203.5	2240.7	2260.7	2233.2	2188.4
35°	3019.1	3009.9	2851.3	2590.3	2359.4	2254.8	2260.2	2289.8	2329.7	2290.9	2231.6
37.5°	3404.2	3382.1	3229.5	2896.7	2570.3	2380.4	2380.4	2384.2	2403.1	2322.2	2282.3
40°	3787.2	3765.1	3627.0	3257.0	2843.3	2578.4	2566.0	2482.4	2467.3	2397.7	2384.2
42.5°	4143.2	4136.8	4055.3	3664.2	3163.7	2773.1	2755.9	2614.0	2617.2	2574.1	2574.6
45°	4521.9	4521.9	4455.6	4075.3	3536.9	3086.0	3068.7	2860.0	2892.3	2872.4	2920.4
47.5°	4831.0	4840.7	4831.5	4503.6	3971.2	3483.5	3452.3	3200.9	3291.5	3360.0	3499.7
50°	5146.6	5161.7	5163.3	4973.4	4496.0	3956.1	3920.5	3653.5	3855.7	4052.1	4326.6
52.5°	5604.5	5638.5	5503.1	5442.2	5139.0	4517.1	4482.0	4235.5	4573.2	4848.8	5321.9
55°	6029.0	5999.4	5902.8	5940.6	5827.3	5155.7	5129.3	4913.0	5372.6	5730.7	6345.1
57.5°	6258.8	6256.7	6353.8	6515.6	6569.5	5943.3	5921.2	5710.8	6273.9	6543.1	7305.8
60°	6528.5	6532.3	6772.9	7140.2	7362.5	6923.9	6914.2	6754.6	7149.4	7301.5	8059.4
62.5°	6566.3	6634.3	7048.5	7680.7	8104.7	8069.7	8091.2	7694.8	7932.6	7906.7	8622.0
65°	6132.1	6221.6	6971.4	7844.2	8842.6	9322.7	9342.7	8640.4	8550.3	8424.0	8823.2
67.5°	5242.0	5374.7	6189.3	7488.7	9085.9	10248.9	10276.9	9373.4	9062.7	8599.4	8338.8
70°	3814.7	3962.0	4781.9	6395.8	8652.2	10545.0	10576.9	9697.6	9082.1	8100.4	7118.7
72.5°	2304.4	2419.8	3095.7	4708.6	7302.6	10005.6	10062.3	9286.6	8291.9	6861.4	5256.6
75°	1011.9	1087.5	1496.9	2713.3	5228.0	8278.4	8349.1	7948.8	6737.3	4986.4	3107.0
77.5°	431.0	452.6	613.9	1178.6	2955.5	5656.8	5753.9	5807.9	4571.0	2713.3	1312.9
80°	268.6	277.3	347.4	533.5	1383.1	3177.2	3281.8	3417.2	2269.9	997.4	458.5
82.5°	163.4	173.2	230.9	322.6	720.1	1440.2	1490.4	1585.9	880.9	431.0	237.3
85°	98.2	105.2	141.3	203.9	410.0	566.4	565.8	625.7	414.8	277.3	125.1
87.5°	46.9	52.3	75.5	105.7	206.6	212.5	199.0	225.5	251.9	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°	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8
2.5°	1604.8	1602.6	1595.6	1590.2	1589.1	1585.9	1583.2	1584.8	1587.0	1587.5	1587.5
5°	1604.2	1598.3	1589.1	1585.3	1590.2	1596.7	1604.8	1615.5	1622.0	1626.9	1630.1
7.5°	1630.1	1618.8	1608.5	1606.4	1616.1	1633.3	1651.7	1674.3	1690.0	1700.8	1702.9
10°	1673.3	1659.2	1649.0	1651.2	1668.4	1693.2	1719.1	1748.2	1772.0	1786.5	1787.6
12.5°	1722.9	1709.4	1699.7	1708.9	1737.5	1767.7	1794.6	1820.0	1841.6	1856.1	1856.1
15°	1780.1	1770.4	1759.0	1780.1	1818.9	1845.9	1857.2	1869.6	1881.5	1892.3	1890.1
17.5°	1835.1	1825.9	1820.0	1844.8	1885.3	1897.7	1890.1	1880.9	1880.9	1886.9	1888.0
20°	1882.6	1874.5	1878.2	1902.5	1923.6	1910.6	1882.6	1853.4	1841.6	1844.8	1848.0
22.5°	1924.1	1920.3	1931.6	1943.0	1927.9	1882.6	1830.8	1791.4	1776.8	1775.8	1776.8
25°	1972.6	1972.1	1986.1	1965.6	1898.7	1815.1	1745.5	1707.2	1699.2	1705.6	1716.4
27.5°	2033.1	2039.0	2046.0	1971.0	1839.4	1713.2	1642.5	1616.1	1624.2	1639.8	1650.1
30°	2110.2	2126.4	2111.3	1957.5	1754.2	1596.7	1529.2	1521.7	1543.8	1565.9	1576.7
32.5°	2185.2	2210.5	2173.8	1922.5	1644.1	1473.1	1420.8	1418.7	1445.6	1467.2	1482.3
35°	2245.6	2295.8	2220.8	1852.9	1516.8	1359.3	1321.0	1306.5	1316.2	1341.5	1358.8
37.5°	2324.3	2407.9	2253.1	1746.6	1378.7	1265.5	1220.7	1187.3	1178.6	1188.9	1197.5
40°	2468.4	2578.9	2268.2	1598.3	1243.9	1171.6	1126.3	1077.2	1043.2	1018.4	1019.0
42.5°	2703.5	2801.7	2258.5	1418.1	1119.3	1079.9	1028.7	972.0	917.0	860.9	856.6
45°	3085.5	3132.9	2229.4	1227.2	1009.8	983.9	935.9	879.2	805.9	742.2	736.3
47.5°	3696.6	3591.4	2184.1	1060.5	913.2	902.4	858.2	792.9	715.3	664.0	659.7
50°	4530.0	4253.3	2162.0	927.8	828.0	831.2	795.1	726.1	652.7	614.9	610.6
52.5°	5526.8	5024.1	2204.6	825.3	759.5	770.8	743.9	679.1	617.6	588.0	583.6
55°	6560.9	5822.4	2250.4	750.9	694.8	716.9	707.7	654.3	598.8	571.2	567.5
57.5°	7446.1	6418.5	2158.7	690.5	637.0	671.6	679.7	638.7	589.0	564.2	559.9
60°	8003.3	6658.5	1918.2	633.8	591.2	635.4	663.5	634.4	592.8	590.7	587.4
62.5°	8267.6	6637.5	1557.3	589.0	562.6	619.8	675.3	658.6	636.0	655.4	657.0
65°	8148.9	6320.3	1159.7	559.4	542.1	625.7	710.9	704.5	648.4	667.8	670.5
67.5°	7367.9	5563.5	858.7	533.5	519.5	642.4	775.7	719.6	624.1	638.1	629.5
70°	5955.1	4410.8	662.4	504.4	496.3	640.3	804.8	710.4	597.7	600.9	577.7
72.5°	4106.6	3007.8	538.9	477.4	462.8	583.6	784.3	687.8	575.6	550.7	520.0
75°	2233.2	1614.5	458.0	449.3	404.0	512.4	746.6	671.6	555.6	522.7	505.4
77.5°	878.7	670.0	397.5	411.0	353.3	452.6	704.5	640.8	528.1	484.9	476.3
80°	358.7	342.0	329.6	355.5	303.7	395.9	653.8	604.7	495.2	449.9	432.6
82.5°	203.4	212.5	256.2	280.5	246.5	364.6	629.5	575.6	455.8	402.9	382.4
85°	104.1	124.6	178.5	201.2	181.2	310.2	579.9	503.8	365.7	308.5	310.2
87.5°	50.2	69.6	112.7	126.2	117.6	224.4	433.2	365.2	284.8	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)