

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: P522679

Luminaire Tested: **GALN-SA2D-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 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: 14502 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

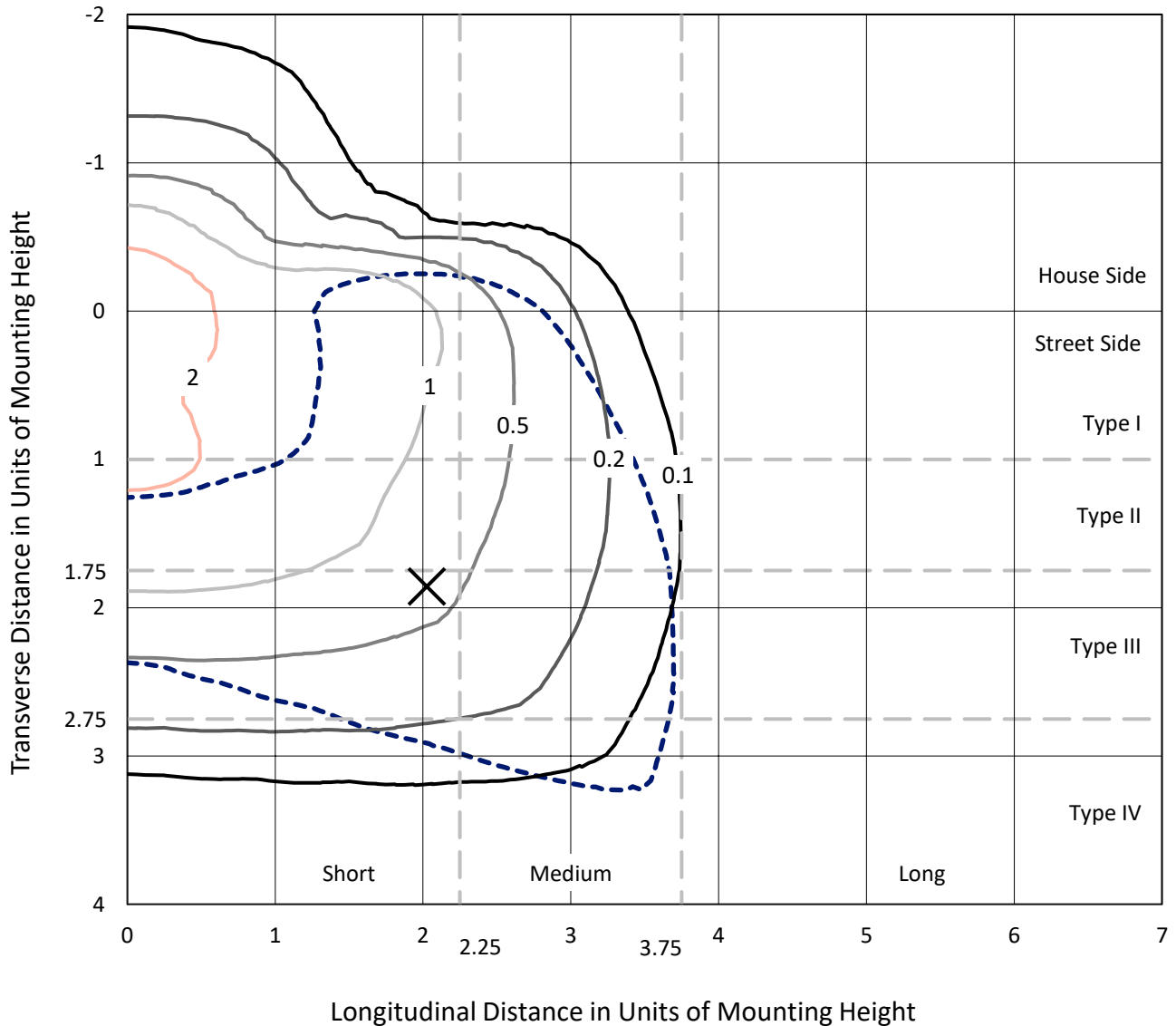
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

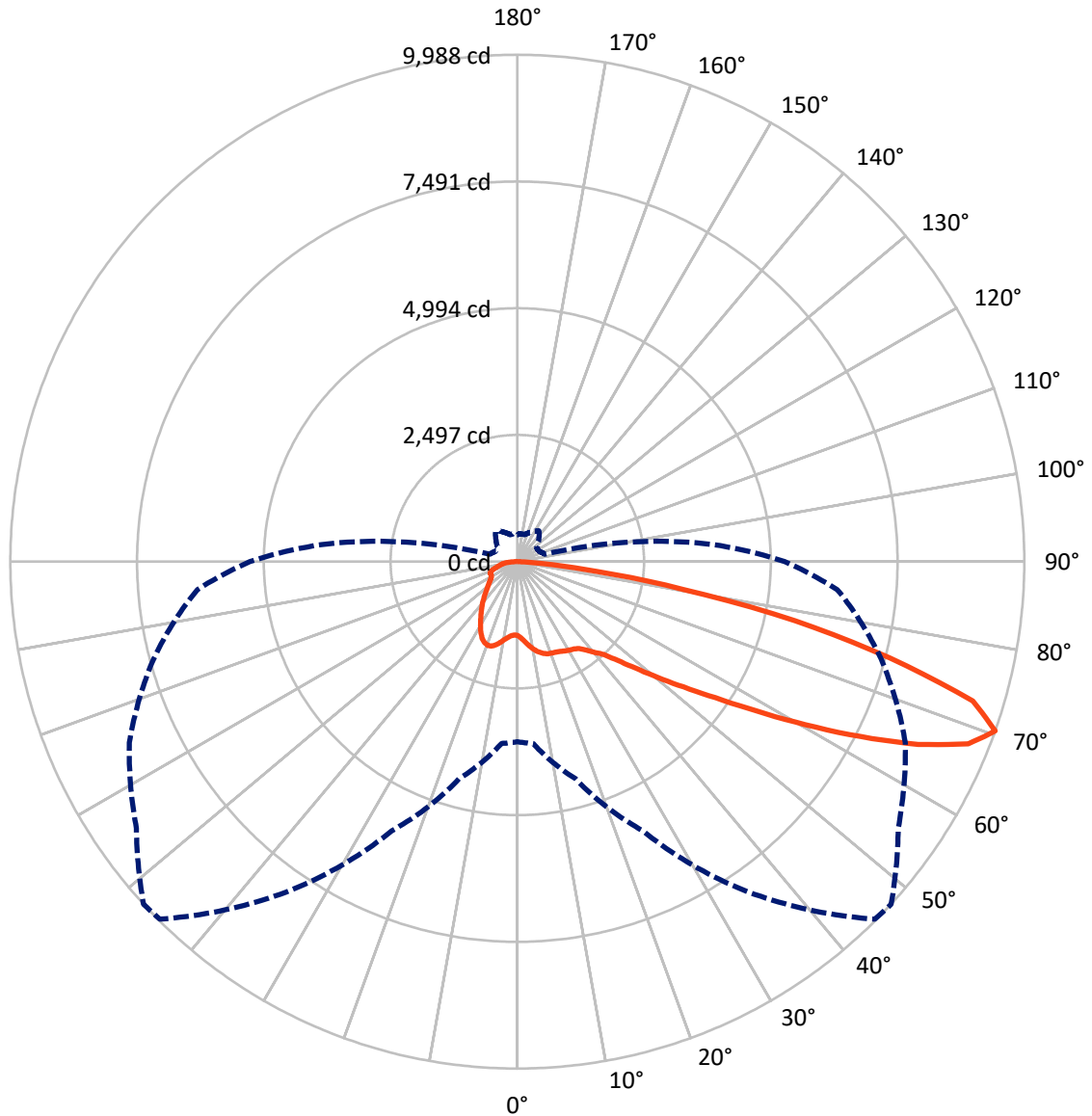
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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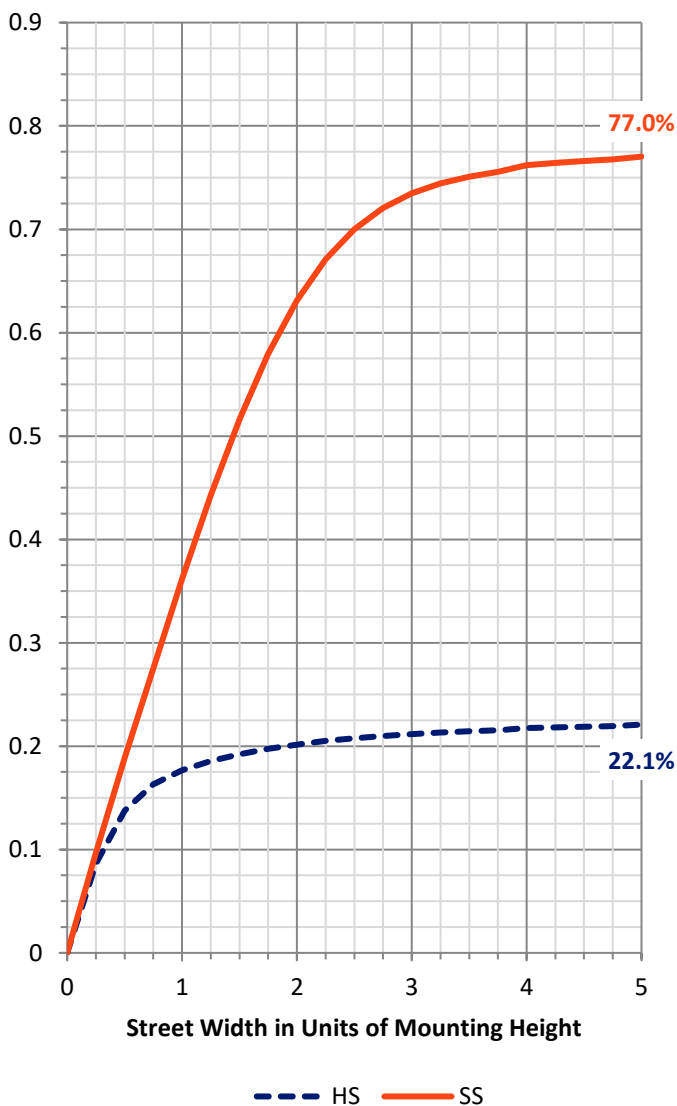
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3283.5	0.0	3283.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	11218.5	0.0	11218.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	14502.0	0.0	14502.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	1.0
10°-20°	501.7	3.5
20°-30°	834.3	5.8
30°-40°	1182.5	8.2
40°-50°	1745.6	12.0
50°-60°	3023.4	20.8
60°-70°	4270.7	29.4
70°-80°	2455.0	16.9
80°-90°	338.7	2.3
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°	14502.0	100.0
0°-180°	14502.0	100.0



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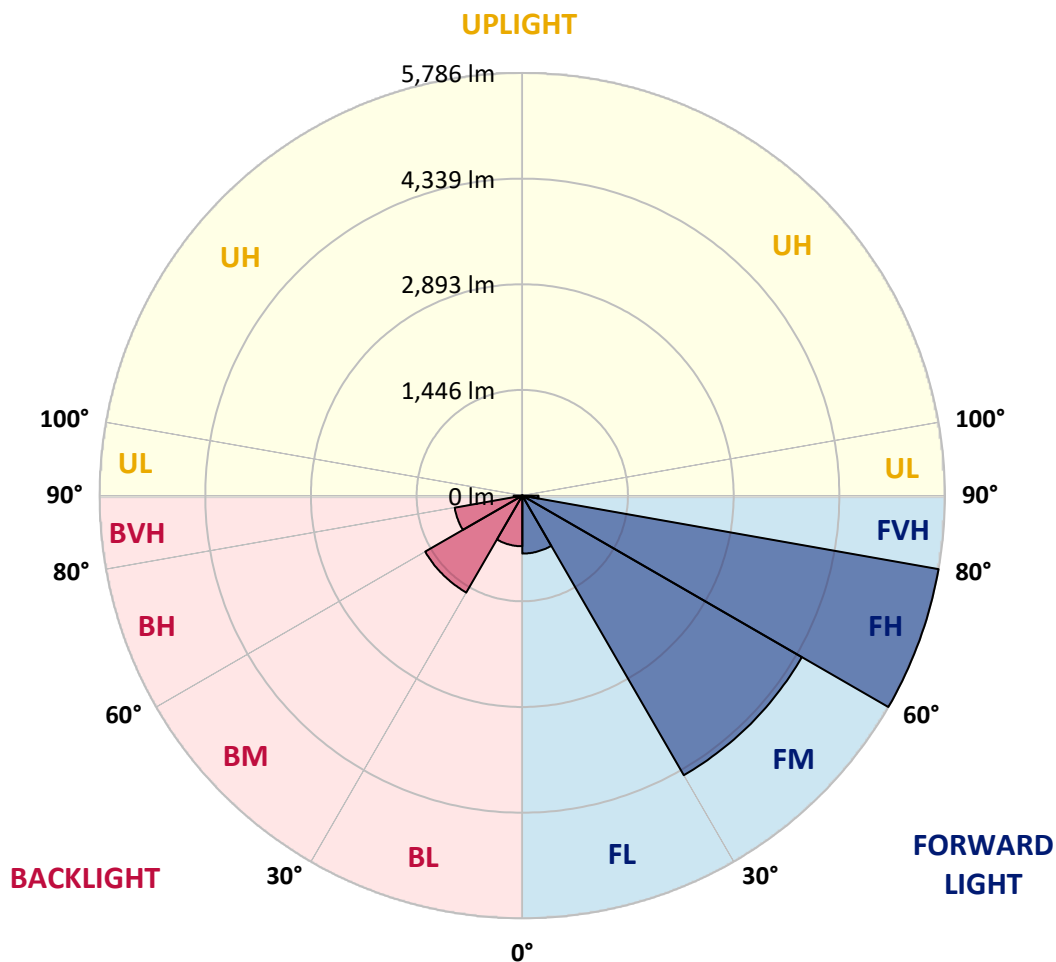
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	793.0	5.5			
FM	(30°-60°)	4418.5	30.5			
FH	(60°-80°)	5785.7	39.9			G3/7500
FVH	(80°-90°)	221.3	1.5			G2/225
BL	(0°-30°)	693.0	4.8	B2/1000		
BM	(30°-60°)	1533.0	10.6	B2/2500		
BH	(60°-80°)	940.0	6.5	B2/1000		G2/1000
BVH	(80°-90°)	117.5	0.8			G2/225
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°	35°	45°	47.5°	55°	65°	75°	85°
0°	1455.8	1455.8	1455.8	1455.8	1455.8	1455.8	1455.8	1455.8	1455.8	1455.8	1455.8
2.5°	1549.7	1544.3	1543.5	1531.9	1525.7	1514.0	1509.4	1498.5	1485.3	1472.1	1459.7
5°	1671.6	1671.6	1666.1	1649.8	1624.2	1597.8	1586.2	1565.2	1528.0	1497.7	1472.1
7.5°	1796.5	1798.1	1787.2	1763.1	1726.7	1684.0	1673.1	1642.1	1589.3	1545.1	1507.0
10°	1904.4	1904.4	1889.6	1857.0	1811.2	1764.7	1753.8	1718.9	1659.9	1604.8	1555.2
12.5°	1986.6	1986.6	1967.2	1924.5	1874.9	1833.0	1820.6	1787.2	1732.1	1670.8	1607.9
15°	2040.2	2036.3	2014.6	1966.5	1918.3	1881.9	1873.3	1845.4	1795.0	1732.9	1662.2
17.5°	2042.5	2041.0	2020.0	1979.6	1937.7	1912.9	1907.5	1888.8	1849.3	1790.3	1715.8
20°	1997.5	2000.6	1986.6	1957.9	1937.7	1926.9	1924.5	1918.3	1890.4	1835.3	1760.8
22.5°	1949.4	1954.8	1941.6	1926.1	1924.5	1935.4	1937.0	1938.5	1920.7	1867.1	1798.8
25°	1937.7	1941.6	1928.4	1914.5	1923.0	1951.7	1957.9	1964.1	1950.2	1905.1	1843.8
27.5°	1996.7	1993.6	1968.0	1937.7	1943.2	1982.0	1990.5	1997.5	1990.5	1951.7	1899.7
30°	2163.6	2153.5	2102.3	2013.8	1985.9	2013.0	2021.5	2041.0	2041.0	2012.2	1960.2
32.5°	2442.9	2423.5	2329.6	2155.8	2058.8	2042.5	2051.0	2082.9	2099.2	2076.6	2020.0
35°	2782.1	2761.9	2627.6	2394.0	2192.3	2101.5	2099.2	2134.8	2178.3	2127.9	2054.1
37.5°	3122.7	3101.8	2940.4	2678.1	2387.1	2225.6	2211.7	2224.1	2242.7	2150.4	2101.5
40°	3463.4	3438.6	3297.3	2995.5	2625.3	2390.2	2353.7	2297.8	2290.1	2224.1	2193.1
42.5°	3801.0	3778.5	3707.1	3351.7	2910.9	2550.8	2494.9	2398.7	2428.2	2388.6	2361.4
45°	4141.7	4143.2	4067.2	3751.3	3255.4	2847.2	2772.0	2621.4	2691.3	2676.5	2692.0
47.5°	4443.5	4439.6	4412.5	4139.3	3683.0	3229.0	3132.0	2957.4	3076.9	3131.3	3250.0
50°	4736.1	4733.8	4735.3	4579.3	4179.7	3683.0	3575.9	3392.8	3662.1	3850.6	4063.3
52.5°	5155.1	5168.3	5074.4	5033.3	4783.4	4219.3	4101.3	3912.0	4353.5	4650.7	5065.9
55°	5575.8	5564.9	5491.2	5533.8	5415.1	4854.0	4730.7	4580.1	5123.3	5448.5	6072.4
57.5°	5823.3	5827.2	5902.5	6111.2	6195.0	5645.6	5533.8	5417.4	5988.6	6219.1	6967.9
60°	6046.0	6063.9	6280.4	6674.6	6902.0	6618.0	6518.6	6405.3	6782.5	6874.0	7745.5
62.5°	6115.9	6171.0	6548.9	7138.7	7591.1	7715.3	7591.9	7342.0	7538.3	7502.6	8272.4
65°	5767.4	5842.7	6520.2	7312.5	8206.5	8756.7	8678.3	8214.2	8182.4	7967.5	8358.6
67.5°	4850.2	4925.4	5795.4	6947.8	8461.0	9658.4	9580.1	8850.6	8573.5	8010.9	7706.7
70°	3548.8	3596.1	4428.0	5849.7	7949.6	9961.1	9988.2	9161.0	8433.9	7420.4	6327.7
72.5°	2044.8	2149.6	2732.4	4115.3	6494.6	9195.9	9384.5	8515.3	7550.7	6190.4	4424.1
75°	879.2	881.6	1263.4	2269.9	4398.5	7391.7	7574.0	7058.7	5929.6	4280.6	2362.2
77.5°	418.3	426.0	555.6	1013.5	2421.2	5107.0	5599.0	4986.7	3792.4	2056.5	892.4
80°	271.6	277.0	339.9	502.9	1187.3	2961.3	3304.3	2876.7	1673.1	734.9	384.9
82.5°	164.5	166.1	227.4	307.3	653.4	1341.0	1580.8	1248.6	713.9	440.0	226.6
85°	100.1	100.9	138.1	190.1	396.5	463.3	475.7	471.8	419.1	287.9	121.1
87.5°	48.1	49.7	71.4	90.0	156.0	143.6	135.8	157.5	197.9	155.2	52.0
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°	1455.8	1455.8	1455.8	1455.8	1455.8	1455.8	1455.8	1455.8	1455.8	1455.8	1455.8
2.5°	1454.3	1451.9	1446.5	1444.2	1442.6	1443.4	1442.6	1442.6	1443.4	1443.4	1443.4
5°	1461.3	1457.4	1448.8	1448.8	1453.5	1464.4	1474.5	1482.2	1490.7	1490.0	1490.0
7.5°	1491.5	1484.5	1474.5	1477.6	1489.2	1506.3	1524.1	1541.2	1558.3	1559.8	1559.0
10°	1535.8	1528.8	1517.9	1521.8	1540.4	1566.0	1588.5	1613.4	1632.0	1637.4	1635.9
12.5°	1586.2	1572.2	1562.9	1573.8	1603.3	1637.4	1659.1	1677.8	1691.0	1698.7	1695.6
15°	1637.4	1624.2	1613.4	1635.9	1671.6	1703.4	1714.2	1717.3	1719.7	1727.4	1725.9
17.5°	1687.1	1669.2	1665.4	1694.8	1729.0	1743.0	1736.7	1723.6	1713.5	1719.7	1718.9
20°	1731.3	1717.3	1715.8	1745.3	1758.5	1745.3	1718.9	1695.6	1677.8	1679.3	1678.5
22.5°	1773.2	1762.4	1763.9	1776.3	1755.4	1710.4	1666.9	1635.1	1615.7	1619.6	1621.9
25°	1819.8	1808.9	1812.8	1792.6	1723.6	1645.2	1582.3	1555.2	1547.4	1555.2	1560.6
27.5°	1880.3	1873.3	1871.0	1793.4	1666.9	1548.9	1477.6	1467.5	1474.5	1491.5	1500.1
30°	1945.5	1945.5	1933.1	1780.2	1589.3	1433.3	1371.2	1372.8	1396.8	1420.9	1429.4
32.5°	2008.4	2021.5	1982.7	1744.5	1489.2	1320.8	1273.5	1275.0	1296.0	1325.5	1333.2
35°	2060.4	2098.4	2025.4	1679.3	1371.2	1226.1	1190.4	1169.5	1170.2	1192.8	1199.0
37.5°	2131.7	2202.4	2050.3	1582.3	1245.5	1145.4	1105.1	1068.6	1044.5	1035.2	1035.2
40°	2255.9	2359.9	2056.5	1438.8	1126.8	1068.6	1011.2	967.7	921.1	879.2	871.5
42.5°	2466.2	2597.4	2044.1	1273.5	1019.7	984.0	928.1	874.6	810.2	751.2	746.5
45°	2838.7	2906.2	2010.7	1102.0	924.2	902.5	848.2	790.0	721.7	668.9	665.1
47.5°	3435.5	3340.0	1966.5	949.9	837.3	831.1	789.2	721.7	653.4	616.9	613.1
50°	4306.9	4022.9	1960.2	839.7	767.5	770.6	736.4	674.4	614.6	584.3	579.7
52.5°	5356.1	4847.8	2001.4	762.1	706.2	717.8	700.8	643.3	590.6	564.9	560.3
55°	6374.3	5589.7	2026.2	701.5	648.8	670.5	672.8	624.7	576.6	551.0	547.9
57.5°	7200.8	6148.5	1916.0	646.4	599.1	632.5	649.5	613.8	569.6	550.2	547.1
60°	7775.8	6412.3	1602.5	597.5	562.6	602.2	641.0	614.6	586.7	589.0	590.6
62.5°	7958.9	6295.1	1202.1	561.1	537.8	592.1	655.0	646.4	617.7	635.6	638.7
65°	7655.5	5810.9	871.5	532.4	516.1	599.1	696.9	669.7	606.9	620.0	620.0
67.5°	6639.7	5006.1	678.2	506.0	491.2	612.3	738.8	667.4	581.2	596.8	582.8
70°	5266.9	3872.4	564.9	476.5	464.8	592.9	742.7	643.3	551.0	554.1	527.7
72.5°	3495.2	2546.1	485.8	448.5	424.5	533.1	710.8	612.3	521.5	503.6	477.3
75°	1712.7	1269.6	423.7	413.6	371.7	464.1	667.4	582.8	489.7	461.7	447.0
77.5°	663.5	540.1	361.6	369.4	323.6	409.0	610.0	540.9	447.8	409.7	398.1
80°	322.1	306.5	296.4	308.1	266.2	348.4	557.2	504.4	409.0	367.1	350.0
82.5°	200.2	189.4	227.4	239.8	204.9	318.2	528.5	473.4	360.1	304.2	290.2
85°	101.7	108.6	152.1	163.7	146.7	253.0	435.4	355.4	260.0	215.7	217.3
87.5°	38.8	52.0	79.9	86.1	78.4	133.5	239.8	207.2	166.8	113.3	104.8
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)