

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: P522678

Luminaire Tested: **GALN-SA2D-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522678
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-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 14178 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

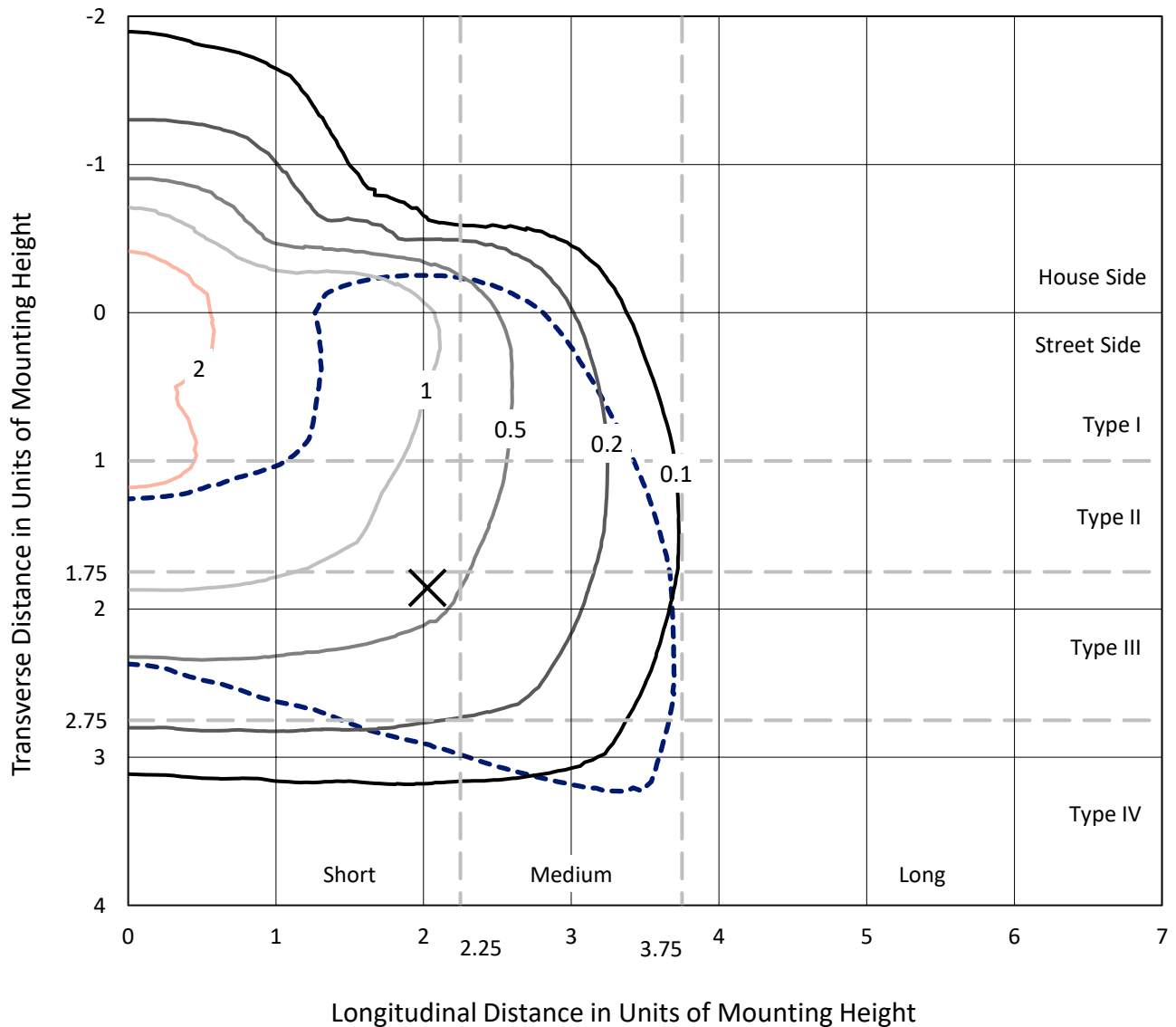
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

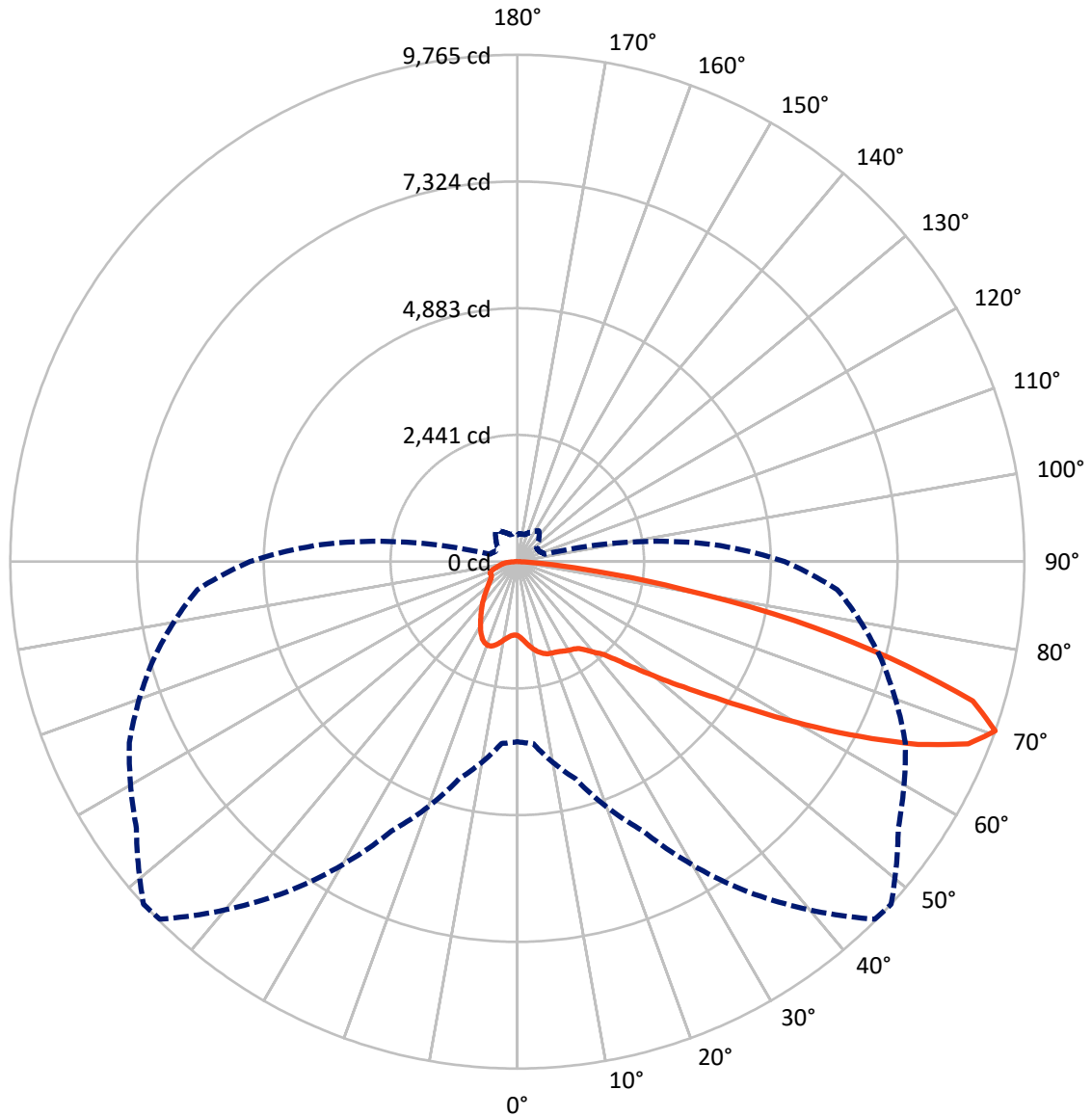
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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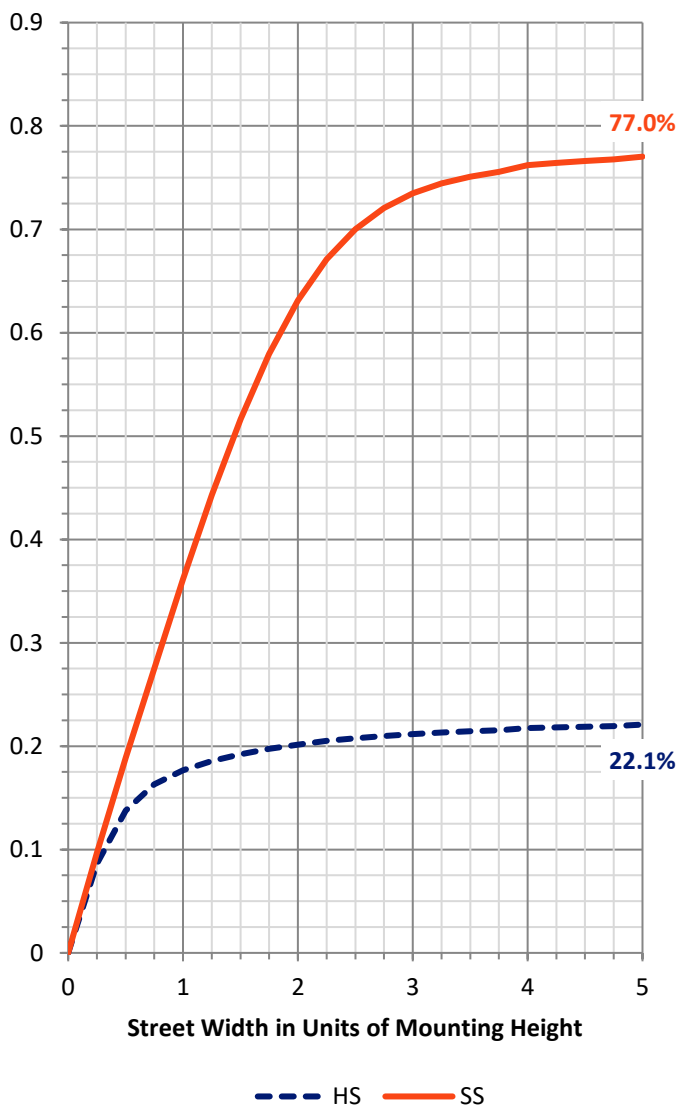
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3210.2	0.0	3210.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	10967.8	0.0	10967.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	14178.0	0.0	14178.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	1.0
10°-20°	490.5	3.5
20°-30°	815.6	5.8
30°-40°	1156.1	8.2
40°-50°	1706.6	12.0
50°-60°	2955.9	20.8
60°-70°	4175.3	29.4
70°-80°	2400.2	16.9
80°-90°	331.2	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°	14178.0	100.0
0°-180°	14178.0	100.0

Coefficient of Utilization



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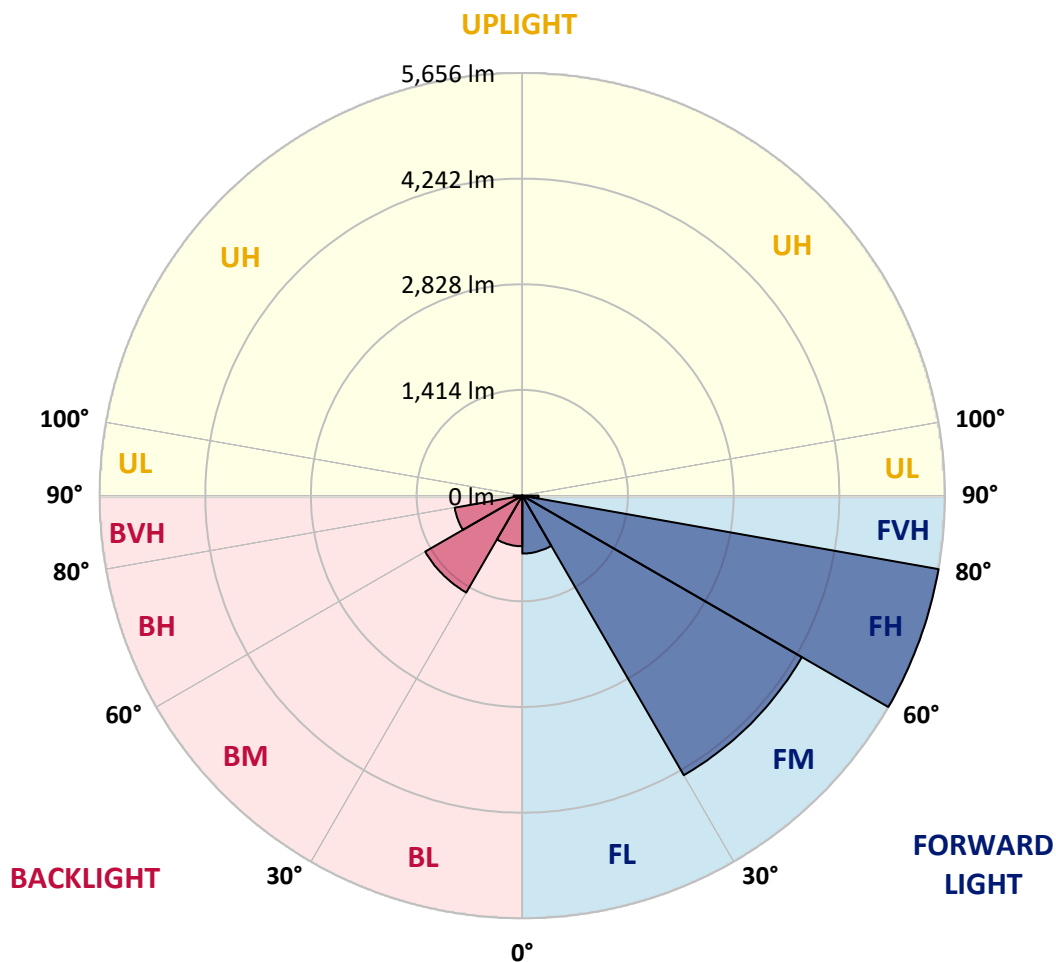
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.3	5.5			
FM (30°-60°)	4319.8	30.5			
FH (60°-80°)	5656.4	39.9			G3/7500
FVH (80°-90°)	216.3	1.5			G2/225
BL (0°-30°)	677.5	4.8	B2/1000		
BM (30°-60°)	1498.8	10.6	B2/2500		
BH (60°-80°)	919.0	6.5	B2/1000		G2/1000
BVH (80°-90°)	114.8	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°	1423.3	1423.3	1423.3	1423.3	1423.3	1423.3	1423.3	1423.3	1423.3	1423.3	1423.3
2.5°	1515.1	1509.8	1509.0	1497.7	1491.6	1480.2	1475.7	1465.0	1452.1	1439.2	1427.1
5°	1634.2	1634.2	1628.9	1613.0	1587.9	1562.1	1550.8	1530.3	1493.9	1464.3	1439.2
7.5°	1756.4	1757.9	1747.3	1723.7	1688.1	1646.4	1635.7	1605.4	1553.8	1510.5	1473.4
10°	1861.8	1861.8	1847.4	1815.5	1770.8	1725.3	1714.6	1680.5	1622.8	1569.0	1520.4
12.5°	1942.2	1942.2	1923.3	1881.5	1833.0	1792.0	1779.9	1747.3	1693.4	1633.5	1572.0
15°	1994.6	1990.8	1969.6	1922.5	1875.5	1839.8	1831.5	1804.2	1754.8	1694.2	1625.1
17.5°	1996.9	1995.4	1974.9	1935.4	1894.4	1870.2	1864.9	1846.6	1808.0	1750.3	1677.5
20°	1952.9	1955.9	1942.2	1914.2	1894.4	1883.8	1881.5	1875.5	1848.2	1794.3	1721.5
22.5°	1905.8	1911.1	1898.2	1883.1	1881.5	1892.2	1893.7	1895.2	1877.8	1825.4	1758.6
25°	1894.4	1898.2	1885.3	1871.7	1880.0	1908.1	1914.2	1920.2	1906.6	1862.6	1802.6
27.5°	1952.1	1949.1	1924.0	1894.4	1899.8	1937.7	1946.0	1952.9	1946.0	1908.1	1857.3
30°	2115.2	2105.4	2055.3	1968.8	1941.5	1968.0	1976.4	1995.4	1995.4	1967.3	1916.4
32.5°	2388.4	2369.4	2277.6	2107.6	2012.8	1996.9	2005.2	2036.3	2052.3	2030.3	1974.9
35°	2719.9	2700.2	2568.9	2340.6	2143.3	2054.5	2052.3	2087.2	2129.6	2080.3	2008.2
37.5°	3053.0	3032.5	2874.7	2618.2	2333.7	2175.9	2162.3	2174.4	2192.6	2102.3	2054.5
40°	3386.0	3361.8	3223.7	2928.5	2566.6	2336.8	2301.1	2246.5	2238.9	2174.4	2144.1
42.5°	3716.1	3694.1	3624.3	3276.8	2845.8	2493.8	2439.2	2345.1	2373.9	2335.2	2308.7
45°	4049.1	4050.6	3976.3	3667.5	3182.7	2783.6	2710.0	2562.9	2631.1	2616.7	2631.9
47.5°	4344.3	4340.5	4313.9	4046.8	3600.7	3156.9	3062.1	2891.4	3008.2	3061.3	3177.4
50°	4630.3	4628.0	4629.5	4477.0	4086.3	3600.7	3496.0	3317.0	3580.3	3764.6	3972.5
52.5°	5040.0	5052.9	4961.1	4920.9	4676.6	4125.0	4009.7	3824.6	4256.2	4546.8	4952.7
55°	5451.2	5440.6	5368.5	5410.2	5294.1	4745.6	4625.0	4477.8	5008.9	5326.8	5936.7
57.5°	5693.2	5697.0	5770.6	5974.7	6056.6	5519.5	5410.2	5296.4	5854.8	6080.1	6812.3
60°	5910.9	5928.4	6140.1	6525.5	6747.8	6470.1	6373.0	6262.2	6630.9	6720.5	7572.5
62.5°	5979.2	6033.1	6402.6	6979.2	7421.5	7542.9	7422.3	7178.0	7369.9	7335.0	8087.6
65°	5638.6	5712.2	6374.5	7149.1	8023.1	8561.0	8484.4	8030.7	7999.6	7789.5	8171.8
67.5°	4741.8	4815.4	5665.9	6792.5	8272.0	9442.6	9366.0	8652.8	8382.0	7831.9	7534.5
70°	3469.5	3515.8	4329.1	5719.0	7772.0	9738.5	9765.1	8956.3	8245.4	7254.6	6186.4
72.5°	1999.1	2101.6	2671.3	4023.3	6349.5	8990.5	9174.8	8325.1	7382.0	6052.1	4325.3
75°	859.6	861.9	1235.1	2219.2	4300.2	7226.5	7404.8	6901.0	5797.1	4184.9	2309.4
77.5°	408.9	416.5	543.2	990.8	2367.1	4992.9	5473.9	4875.3	3707.7	2010.5	872.5
80°	265.5	270.9	332.3	491.6	1160.8	2895.2	3230.5	2812.5	1635.7	718.5	376.3
82.5°	160.8	162.4	222.3	300.4	638.8	1311.0	1545.4	1220.7	698.0	430.2	221.5
85°	97.9	98.6	135.0	185.9	387.7	452.9	465.1	461.3	409.7	281.5	118.4
87.5°	47.0	48.6	69.8	88.0	152.5	140.4	132.8	154.0	193.5	151.7	50.8
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°	1423.3	1423.3	1423.3	1423.3	1423.3	1423.3	1423.3	1423.3	1423.3	1423.3	1423.3
2.5°	1421.8	1419.5	1414.2	1411.9	1410.4	1411.2	1410.4	1410.4	1411.2	1411.2	1411.2
5°	1428.6	1424.8	1416.5	1416.5	1421.0	1431.6	1441.5	1449.1	1457.4	1456.7	1456.7
7.5°	1458.2	1451.4	1441.5	1444.5	1455.9	1472.6	1490.1	1506.8	1523.4	1525.0	1524.2
10°	1501.4	1494.6	1484.0	1487.8	1506.0	1531.0	1553.0	1577.3	1595.5	1600.8	1599.3
12.5°	1550.8	1537.1	1528.0	1538.6	1567.5	1600.8	1622.1	1640.3	1653.2	1660.8	1657.7
15°	1600.8	1587.9	1577.3	1599.3	1634.2	1665.3	1675.9	1679.0	1681.3	1688.8	1687.3
17.5°	1649.4	1631.9	1628.1	1657.0	1690.4	1704.0	1697.9	1685.0	1675.2	1681.3	1680.5
20°	1692.6	1679.0	1677.5	1706.3	1719.2	1706.3	1680.5	1657.7	1640.3	1641.8	1641.0
22.5°	1733.6	1723.0	1724.5	1736.6	1716.2	1672.2	1629.7	1598.6	1579.6	1583.4	1585.7
25°	1779.1	1768.5	1772.3	1752.6	1685.0	1608.4	1547.0	1520.4	1512.8	1520.4	1525.7
27.5°	1838.3	1831.5	1829.2	1753.3	1629.7	1514.3	1444.5	1434.7	1441.5	1458.2	1466.5
30°	1902.0	1902.0	1889.9	1740.4	1553.8	1401.3	1340.6	1342.1	1365.6	1389.2	1397.5
32.5°	1963.5	1976.4	1938.5	1705.5	1455.9	1291.3	1245.0	1246.5	1267.0	1295.8	1303.4
35°	2014.3	2051.5	1980.2	1641.8	1340.6	1198.7	1163.8	1143.3	1144.1	1166.1	1172.2
37.5°	2084.1	2153.2	2004.5	1547.0	1217.7	1119.8	1080.4	1044.7	1021.2	1012.1	1012.1
40°	2205.5	2307.2	2010.5	1406.6	1101.6	1044.7	988.6	946.1	900.6	859.6	852.0
42.5°	2411.1	2539.3	1998.4	1245.0	996.9	962.0	907.4	855.0	792.1	734.4	729.9
45°	2775.3	2841.3	1965.8	1077.3	903.6	882.4	829.2	772.3	705.6	654.0	650.2
47.5°	3358.7	3265.4	1922.5	928.6	818.6	812.6	771.6	705.6	638.8	603.2	599.4
50°	4210.7	3933.0	1916.4	820.9	750.3	753.4	720.0	659.3	600.9	571.3	566.7
52.5°	5236.5	4739.5	1956.7	745.0	690.4	701.8	685.1	629.0	577.4	552.3	547.8
55°	6231.9	5464.8	1980.9	685.9	634.3	655.5	657.8	610.7	563.7	538.7	535.6
57.5°	7039.9	6011.1	1873.2	632.0	585.7	618.3	635.0	600.1	556.9	537.9	534.9
60°	7602.1	6269.0	1566.7	584.2	550.0	588.7	626.7	600.9	573.6	575.8	577.4
62.5°	7781.1	6154.5	1175.2	548.5	525.8	578.9	640.3	632.0	603.9	621.4	624.4
65°	7484.5	5681.1	852.0	520.5	504.5	585.7	681.3	654.7	593.3	606.2	606.2
67.5°	6491.3	4894.3	663.1	494.7	480.3	598.6	722.3	652.5	568.3	583.4	569.8
70°	5149.2	3785.9	552.3	465.8	454.5	579.6	726.1	629.0	538.7	541.7	515.9
72.5°	3417.1	2489.3	474.9	438.5	415.0	521.2	695.0	598.6	509.8	492.4	466.6
75°	1674.4	1241.2	414.2	404.4	363.4	453.7	652.5	569.8	478.7	451.4	437.0
77.5°	648.7	528.0	353.5	361.1	316.4	399.8	596.3	528.8	437.8	400.6	389.2
80°	314.9	299.7	289.8	301.2	260.2	340.7	544.7	493.1	399.8	358.9	342.2
82.5°	195.7	185.1	222.3	234.4	200.3	311.1	516.7	462.8	352.0	297.4	283.7
85°	99.4	106.2	148.7	160.1	143.4	247.3	425.6	347.5	254.2	210.9	212.4
87.5°	37.9	50.8	78.1	84.2	76.6	130.5	234.4	202.6	163.1	110.8	102.4
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)