

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: P522729

Luminaire Tested: **GALN-SA4A-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522729
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-SA4A-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14386 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 121
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



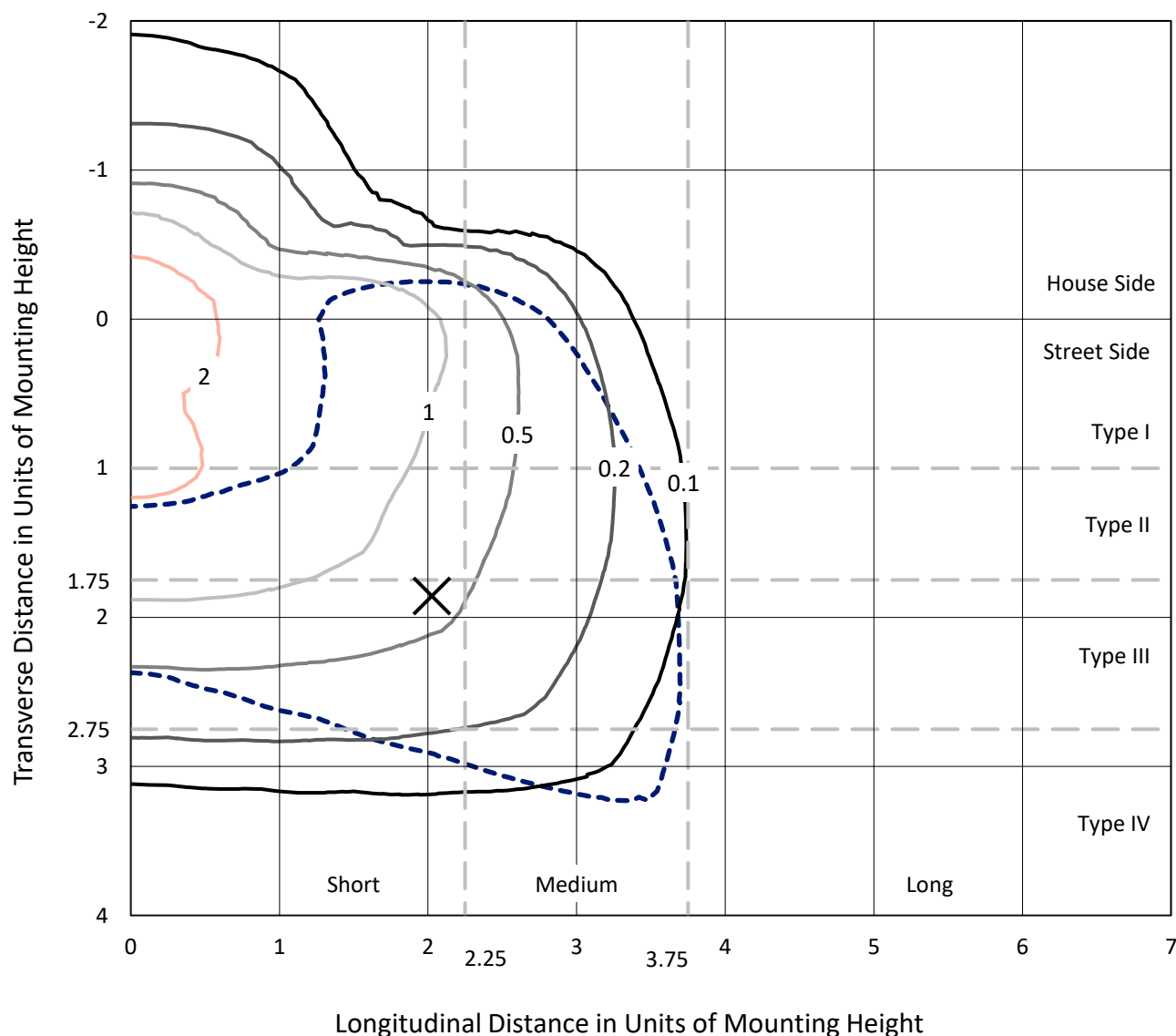
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

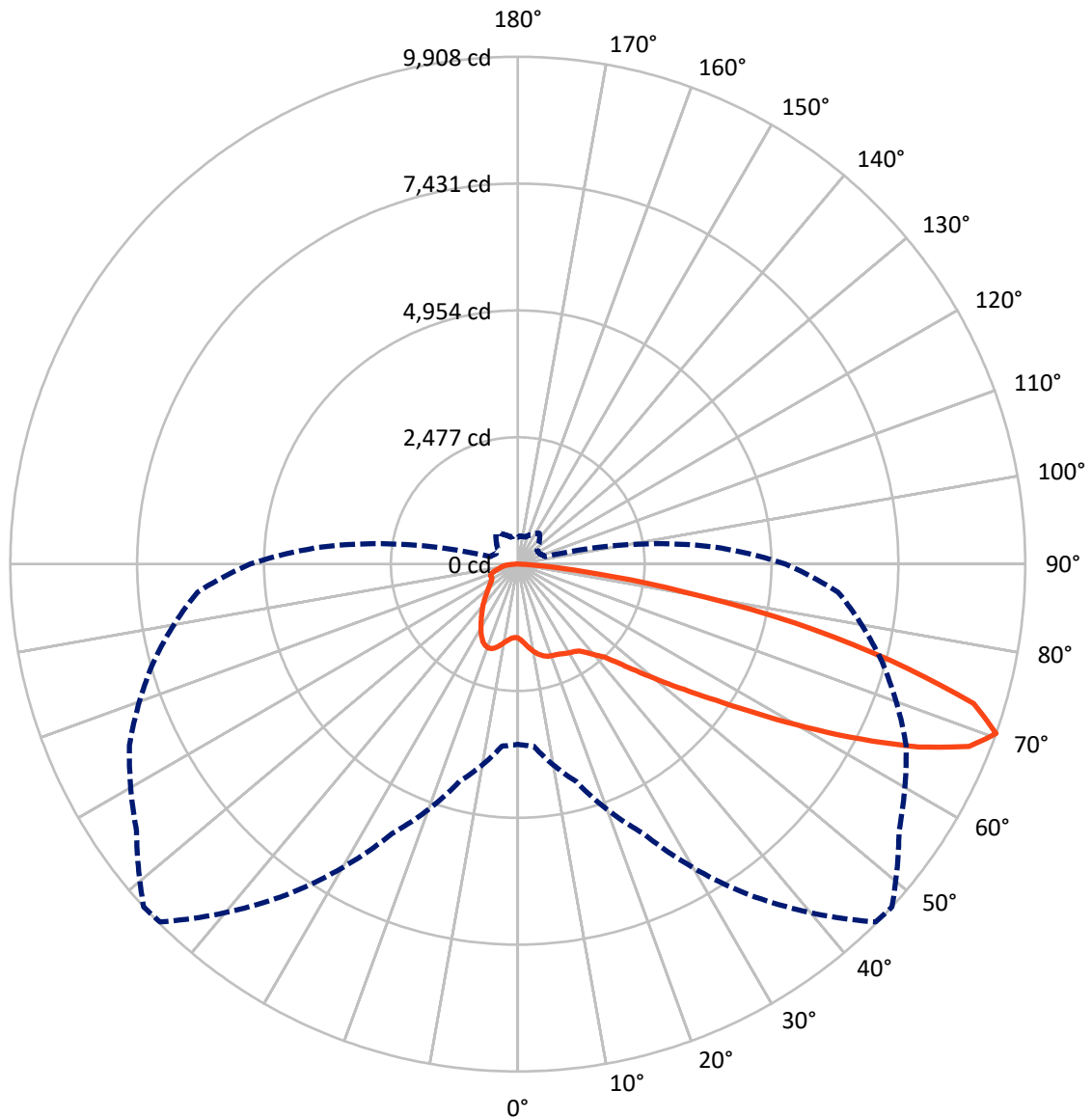


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

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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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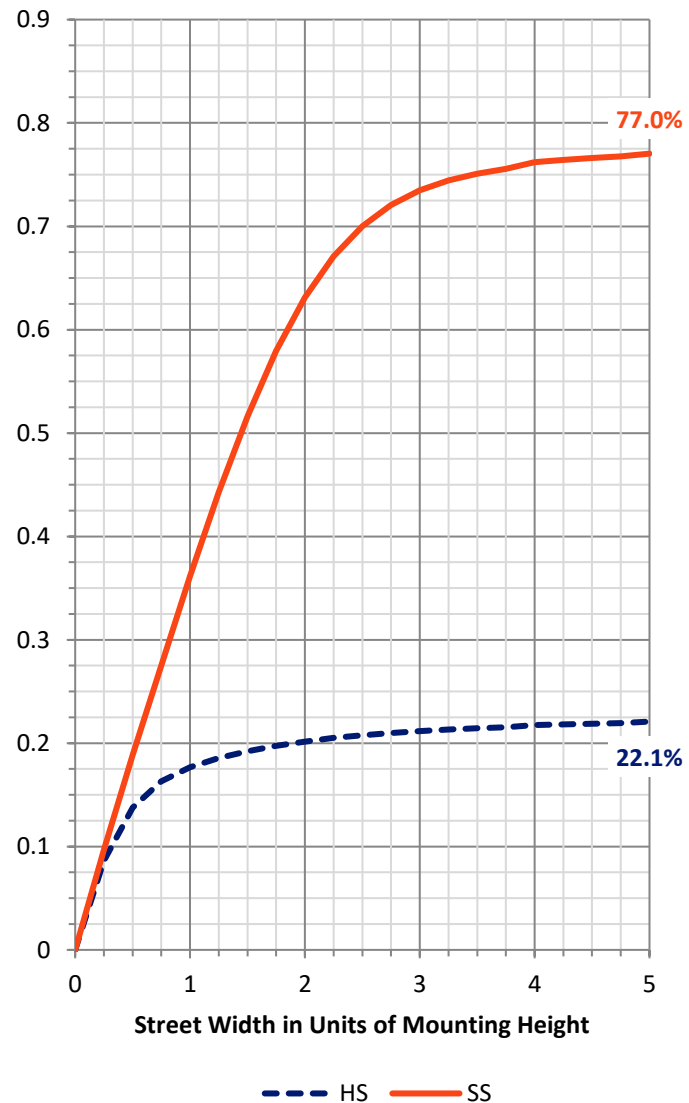
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3257.3	0.0	3257.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	11128.7	0.0	11128.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	14386.0	0.0	14386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	1.0
10°-20°	497.7	3.5
20°-30°	827.6	5.8
30°-40°	1173.0	8.2
40°-50°	1731.6	12.0
50°-60°	2999.3	20.8
60°-70°	4236.5	29.4
70°-80°	2435.4	16.9
80°-90°	336.0	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°	14386.0	100.0
0°-180°	14386.0	100.0

Coefficient of Utilization



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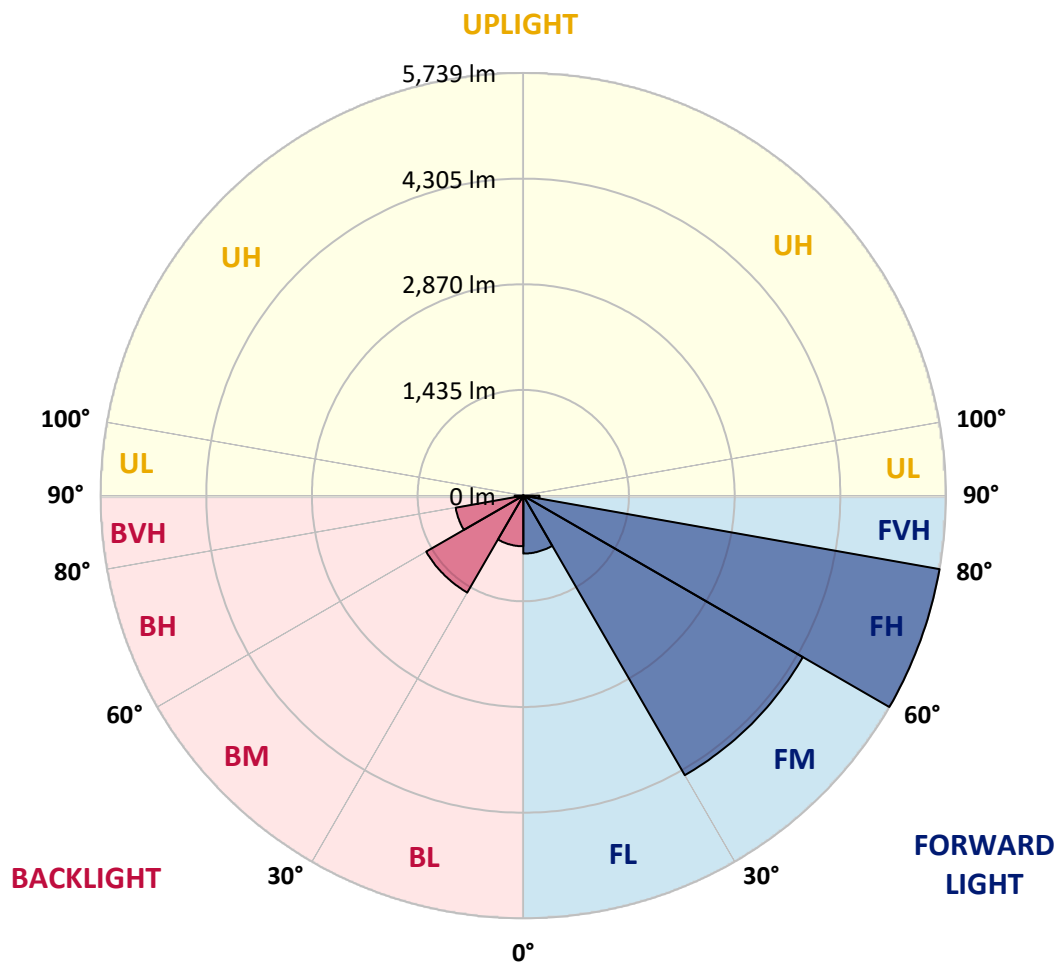
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	786.7	5.5			
FM	(30°-60°)	4383.1	30.5			
FH	(60°-80°)	5739.4	39.9			G3/7500
FVH	(80°-90°)	219.5	1.5			G2/225
BL	(0°-30°)	687.5	4.8	B2/1000		
BM	(30°-60°)	1520.8	10.6	B2/2500		
BH	(60°-80°)	932.5	6.5	B2/1000		G2/1000
BVH	(80°-90°)	116.5	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°	1444.2	1444.2	1444.2	1444.2	1444.2	1444.2	1444.2	1444.2	1444.2	1444.2	1444.2
2.5°	1537.3	1531.9	1531.2	1519.6	1513.5	1501.9	1497.3	1486.5	1473.4	1460.3	1448.0
5°	1658.2	1658.2	1652.8	1636.6	1611.2	1585.1	1573.5	1552.7	1515.8	1485.8	1460.3
7.5°	1782.1	1783.7	1772.9	1749.0	1712.8	1670.5	1659.7	1628.9	1576.6	1532.7	1495.0
10°	1889.1	1889.1	1874.5	1842.2	1796.8	1750.6	1739.8	1705.2	1646.6	1592.0	1542.7
12.5°	1970.7	1970.7	1951.5	1909.2	1859.9	1818.3	1806.0	1772.9	1718.2	1657.4	1595.1
15°	2023.9	2020.0	1998.5	1950.7	1903.0	1866.8	1858.3	1830.6	1780.6	1719.0	1649.0
17.5°	2026.2	2024.6	2003.8	1963.8	1922.2	1897.6	1892.2	1873.7	1834.5	1776.0	1702.1
20°	1981.5	1984.6	1970.7	1942.3	1922.2	1911.5	1909.2	1903.0	1875.3	1820.6	1746.7
22.5°	1933.8	1939.2	1926.1	1910.7	1909.2	1919.9	1921.5	1923.0	1905.3	1852.2	1784.4
25°	1922.2	1926.1	1913.0	1899.1	1907.6	1936.1	1942.3	1948.4	1934.6	1889.9	1829.1
27.5°	1980.7	1977.7	1952.3	1922.2	1927.6	1966.1	1974.6	1981.5	1974.6	1936.1	1884.5
30°	2146.3	2136.2	2085.4	1997.7	1970.0	1996.9	2005.4	2024.6	2024.6	1996.1	1944.6
32.5°	2423.4	2404.1	2311.0	2138.6	2042.3	2026.2	2034.6	2066.2	2082.4	2060.0	2003.8
35°	2759.8	2739.8	2606.6	2374.9	2174.7	2084.7	2082.4	2117.8	2160.9	2110.8	2037.7
37.5°	3097.8	3077.0	2916.8	2656.6	2368.0	2207.8	2194.0	2206.3	2224.8	2133.2	2084.7
40°	3435.7	3411.1	3271.0	2971.5	2604.3	2371.0	2334.9	2279.4	2271.7	2206.3	2175.5
42.5°	3770.6	3748.3	3677.4	3324.9	2887.6	2530.4	2475.0	2379.5	2408.8	2369.5	2342.6
45°	4108.5	4110.1	4034.6	3721.3	3229.4	2824.5	2749.8	2600.5	2669.7	2655.1	2670.5
47.5°	4408.0	4404.1	4377.2	4106.2	3653.6	3203.2	3107.0	2933.8	3052.3	3106.2	3224.0
50°	4698.2	4695.9	4697.4	4542.7	4146.2	3653.6	3547.3	3365.7	3632.8	3819.8	4030.8
52.5°	5113.9	5127.0	5033.8	4993.0	4745.2	4185.5	4068.5	3880.7	4318.7	4613.5	5025.4
55°	5531.2	5520.4	5447.2	5489.6	5371.8	4815.2	4692.8	4543.5	5082.3	5404.9	6023.8
57.5°	5776.7	5780.6	5855.2	6062.3	6145.5	5600.4	5489.6	5374.1	5940.7	6169.3	6912.2
60°	5997.7	6015.4	6230.1	6621.2	6846.8	6565.0	6466.5	6354.1	6728.2	6819.1	7683.6
62.5°	6066.9	6121.6	6496.5	7081.6	7530.4	7653.5	7531.1	7283.3	7478.0	7442.6	8206.3
65°	5721.3	5796.0	6468.0	7254.0	8140.8	8686.6	8608.9	8148.5	8117.0	7903.7	8291.7
67.5°	4811.4	4886.0	5749.0	6892.2	8393.3	9581.2	9503.4	8779.8	8505.0	7946.8	7645.1
70°	3520.4	3567.3	4392.6	5802.9	7886.0	9881.4	9908.3	9087.7	8366.4	7361.0	6277.1
72.5°	2028.5	2132.4	2710.5	4082.4	6442.6	9122.4	9309.4	8447.2	7490.3	6140.8	4388.7
75°	872.2	874.5	1253.3	2251.7	4363.3	7332.5	7513.4	7002.3	5882.2	4246.3	2343.3
77.5°	414.9	422.6	551.2	1005.4	2401.8	5066.2	5554.2	4946.9	3762.1	2040.0	885.3
80°	269.4	274.8	337.2	498.8	1177.8	2937.6	3277.9	2853.7	1659.7	729.0	381.8
82.5°	163.2	164.7	225.6	304.8	648.2	1330.2	1568.1	1238.6	708.2	436.5	224.8
85°	99.3	100.1	137.0	188.6	393.4	459.6	471.9	468.1	415.7	285.6	120.1
87.5°	47.7	49.3	70.8	89.3	154.7	142.4	134.7	156.3	196.3	154.0	51.6
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°	1444.2	1444.2	1444.2	1444.2	1444.2	1444.2	1444.2	1444.2	1444.2	1444.2	1444.2
2.5°	1442.6	1440.3	1434.9	1432.6	1431.1	1431.9	1431.1	1431.1	1431.9	1431.9	1431.9
5°	1449.6	1445.7	1437.3	1437.3	1441.9	1452.6	1462.7	1470.4	1478.8	1478.1	1478.1
7.5°	1479.6	1472.7	1462.7	1465.7	1477.3	1494.2	1511.9	1528.9	1545.8	1547.3	1546.6
10°	1523.5	1516.5	1505.8	1509.6	1528.1	1553.5	1575.8	1600.5	1618.9	1624.3	1622.8
12.5°	1573.5	1559.7	1550.4	1561.2	1590.4	1624.3	1645.9	1664.3	1677.4	1685.1	1682.1
15°	1624.3	1611.2	1600.5	1622.8	1658.2	1689.8	1700.5	1703.6	1705.9	1713.6	1712.1
17.5°	1673.6	1655.9	1652.0	1681.3	1715.2	1729.0	1722.9	1709.8	1699.8	1705.9	1705.2
20°	1717.5	1703.6	1702.1	1731.3	1744.4	1731.3	1705.2	1682.1	1664.3	1665.9	1665.1
22.5°	1759.0	1748.3	1749.8	1762.1	1741.3	1696.7	1653.6	1622.0	1602.8	1606.6	1608.9
25°	1805.2	1794.4	1798.3	1778.3	1709.8	1632.0	1569.7	1542.7	1535.0	1542.7	1548.1
27.5°	1865.3	1858.3	1856.0	1779.1	1653.6	1536.6	1465.7	1455.7	1462.7	1479.6	1488.1
30°	1929.9	1929.9	1917.6	1766.0	1576.6	1421.9	1360.3	1361.8	1385.7	1409.5	1418.0
32.5°	1992.3	2005.4	1966.9	1730.6	1477.3	1310.2	1263.3	1264.8	1285.6	1314.9	1322.5
35°	2043.9	2081.6	2009.2	1665.9	1360.3	1216.3	1180.9	1160.1	1160.9	1183.2	1189.4
37.5°	2114.7	2184.7	2033.9	1569.7	1235.6	1136.3	1096.2	1060.0	1036.2	1026.9	1026.9
40°	2237.9	2341.0	2040.0	1427.2	1117.8	1060.0	1003.1	960.0	913.8	872.2	864.5
42.5°	2446.5	2576.6	2027.7	1263.3	1011.5	976.1	920.7	867.6	803.7	745.2	740.6
45°	2816.0	2883.0	1994.6	1093.1	916.9	895.3	841.4	783.7	715.9	663.6	659.7
47.5°	3408.0	3313.3	1950.7	942.3	830.6	824.5	782.9	715.9	648.2	612.0	608.2
50°	4272.5	3990.7	1944.6	832.9	761.4	764.4	730.6	669.0	609.7	579.7	575.1
52.5°	5313.3	4809.1	1985.4	756.0	700.5	712.1	695.1	638.2	585.8	560.4	555.8
55°	6323.3	5545.0	2010.0	695.9	643.6	665.1	667.4	619.7	572.0	546.6	543.5
57.5°	7143.2	6099.3	1900.7	641.3	594.3	627.4	644.3	608.9	565.0	545.8	542.7
60°	7713.6	6361.0	1589.7	592.8	558.1	597.4	635.9	609.7	582.0	584.3	585.8
62.5°	7895.3	6244.8	1192.5	556.6	533.5	587.4	649.7	641.3	612.8	630.5	633.6
65°	7594.3	5764.4	864.5	528.1	511.9	594.3	691.3	664.4	602.0	615.1	615.1
67.5°	6586.6	4966.1	672.8	501.9	487.3	607.4	732.9	662.0	576.6	592.0	578.1
70°	5224.8	3841.4	560.4	472.7	461.1	588.1	736.7	638.2	546.6	549.7	523.5
72.5°	3467.3	2525.8	481.9	445.0	421.1	528.9	705.2	607.4	517.3	499.6	473.4
75°	1699.0	1259.4	420.3	410.3	368.7	460.4	662.0	578.1	485.8	458.0	443.4
77.5°	658.2	535.8	358.7	366.4	321.0	405.7	605.1	536.6	444.2	406.5	394.9
80°	319.5	304.1	294.1	305.6	264.0	345.6	552.7	500.4	405.7	364.1	347.2
82.5°	198.6	187.8	225.6	237.9	203.2	315.6	524.2	469.6	357.2	301.8	287.9
85°	100.8	107.8	150.9	162.4	145.5	251.0	431.9	352.6	257.9	214.0	215.5
87.5°	38.5	51.6	79.3	85.4	77.8	132.4	237.9	205.5	165.5	112.4	103.9
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)