

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: P647912

Luminaire Tested: **GALN-SA4A-835-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647912  
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-835-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 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: 14175.4 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

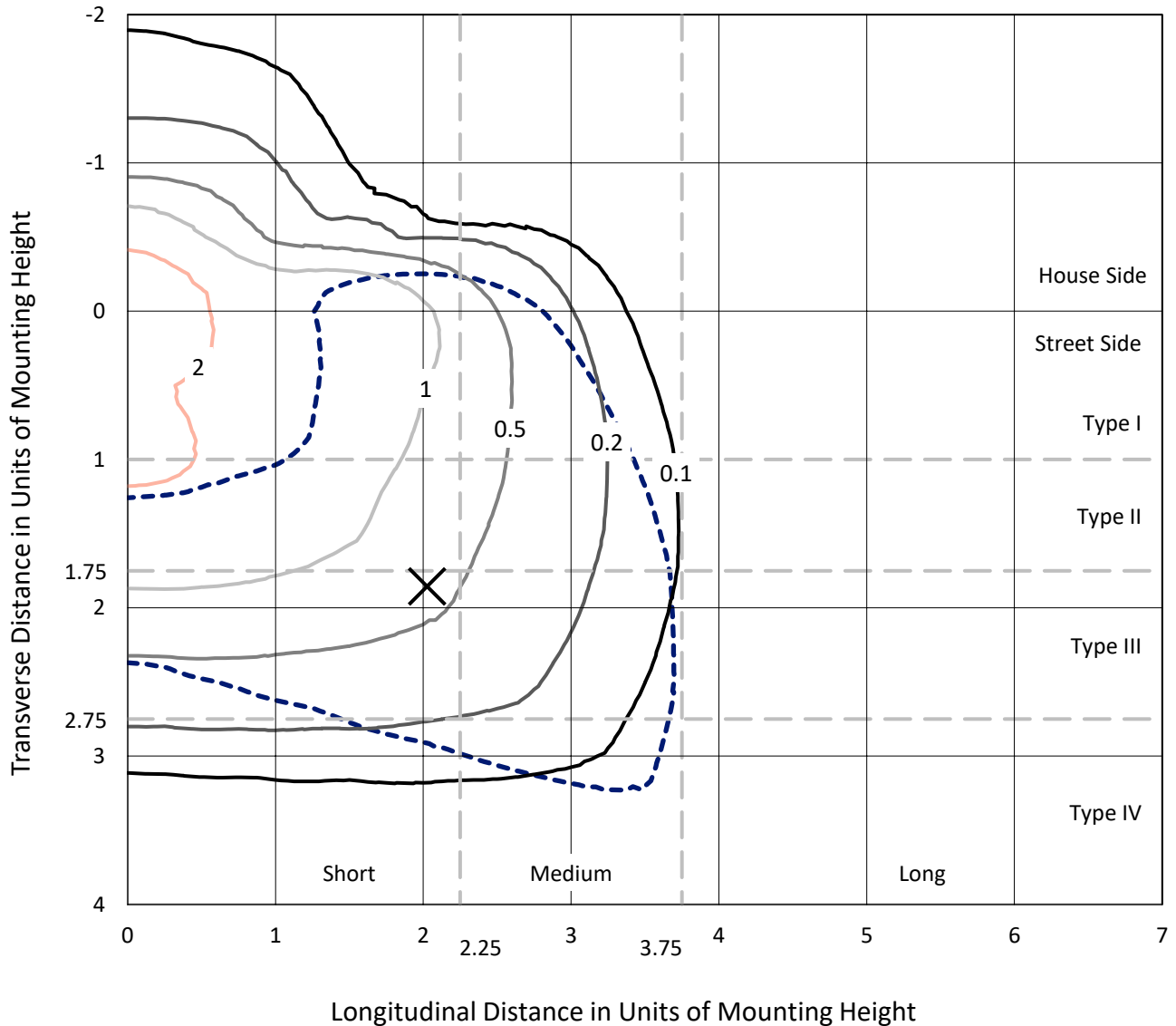
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

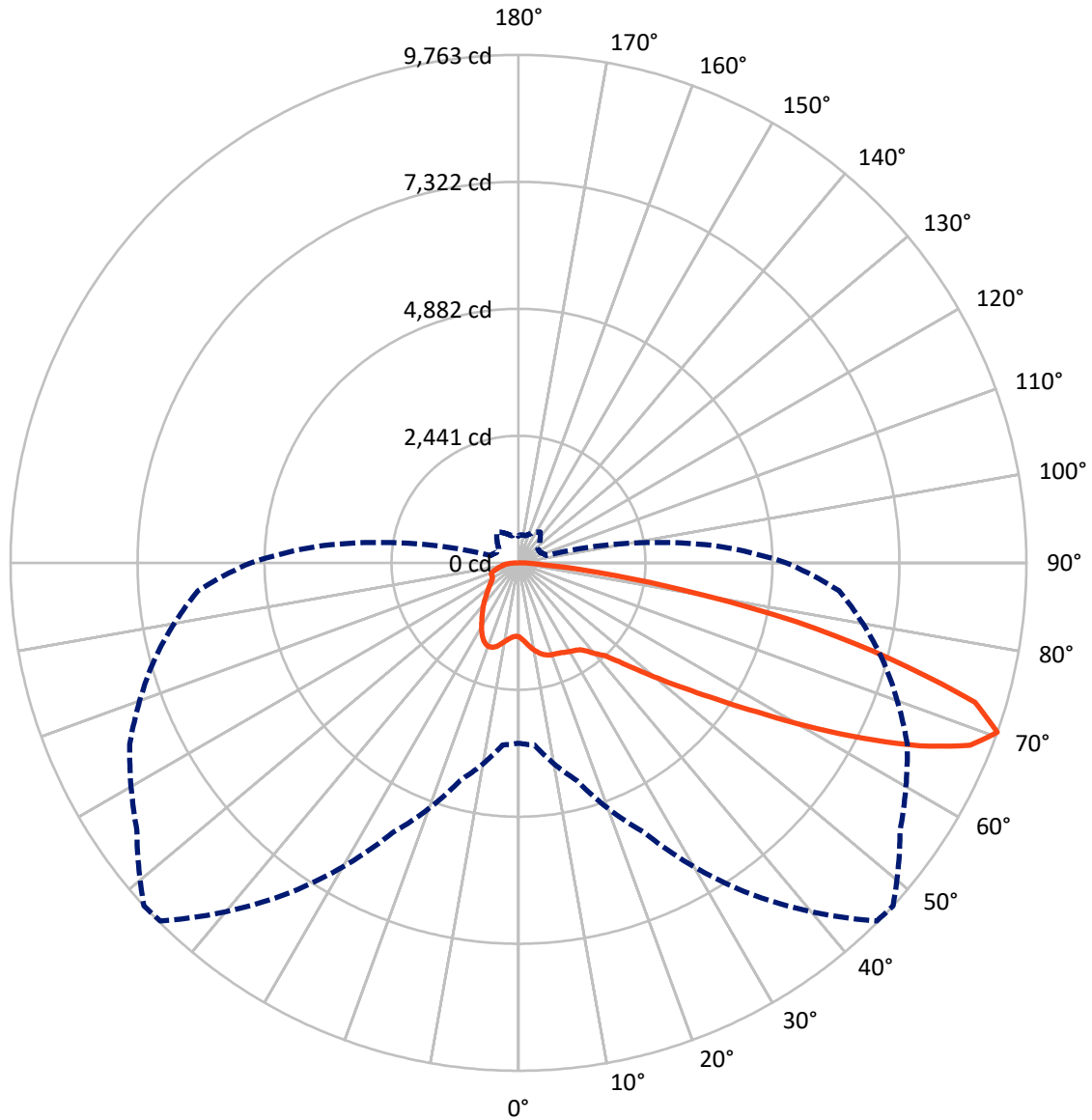
✕ Max cd  
 - - - 1/2 Max cd



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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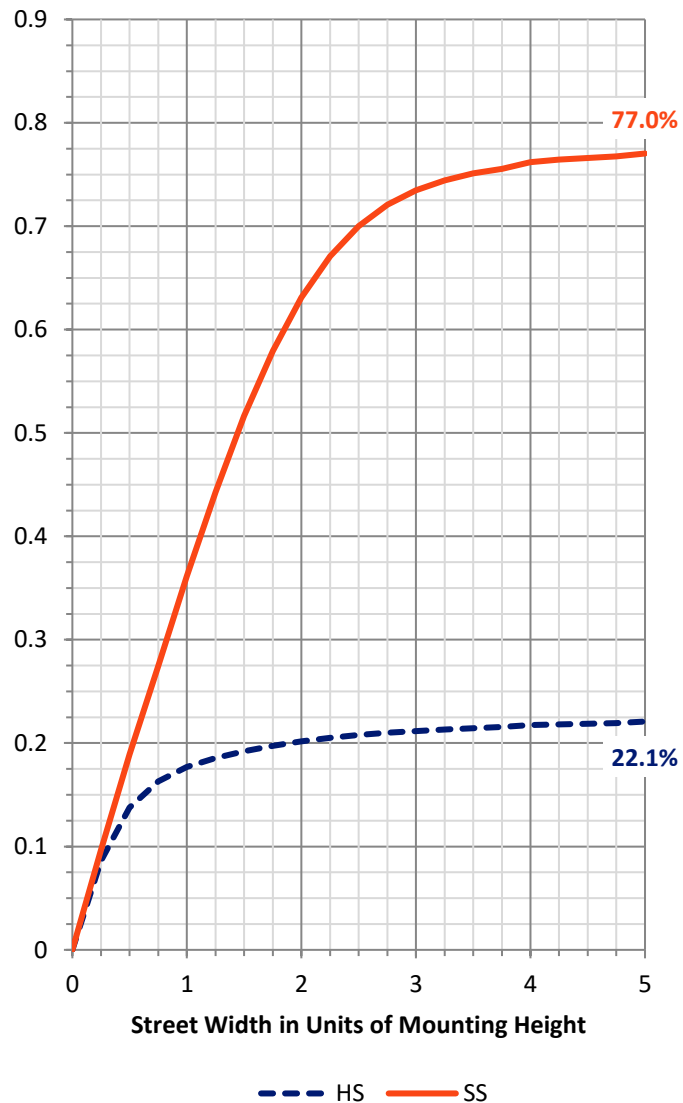
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3209.6	0.0	3209.6
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	10965.8	0.0	10965.8
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	14175.4	0.0	14175.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.7	1.0
10°-20°	490.4	3.5
20°-30°	815.5	5.8
30°-40°	1155.9	8.2
40°-50°	1706.3	12.0
50°-60°	2955.4	20.8
60°-70°	4174.5	29.4
70°-80°	2399.7	16.9
80°-90°	331.1	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°	14175.4	100.0
0°-180°	14175.4	100.0

**Coefficient of Utilization**

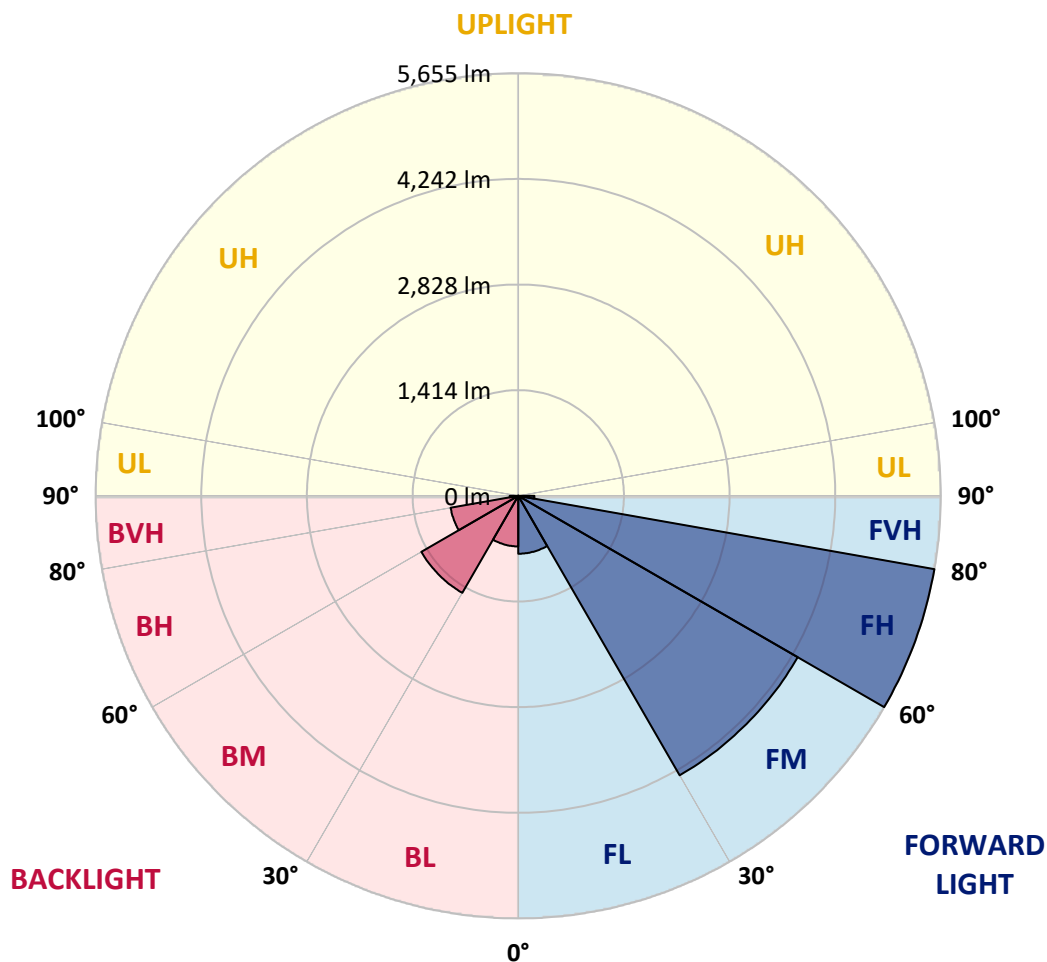


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.2	5.5			
FM (30°-60°)	4319.0	30.5			
FH (60°-80°)	5655.4	39.9			G3/7500
FVH (80°-90°)	216.3	1.5			G2/225
BL (0°-30°)	677.4	4.8	B2/1000		
BM (30°-60°)	1498.5	10.6	B2/2500		
BH (60°-80°)	918.9	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°	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0
2.5°	1514.8	1509.5	1508.8	1497.4	1491.3	1479.9	1475.4	1464.8	1451.8	1439.0	1426.9
5°	1633.9	1633.9	1628.6	1612.7	1587.6	1561.9	1550.5	1530.0	1493.6	1464.0	1439.0
7.5°	1756.0	1757.6	1747.0	1723.5	1687.8	1646.0	1635.5	1605.1	1553.6	1510.3	1473.1
10°	1861.5	1861.5	1847.1	1815.2	1770.4	1724.9	1714.3	1680.2	1622.5	1568.7	1520.1
12.5°	1941.9	1941.9	1922.9	1881.2	1832.7	1791.7	1779.5	1747.0	1693.1	1633.2	1571.7
15°	1994.2	1990.5	1969.2	1922.2	1875.1	1839.5	1831.1	1803.8	1754.5	1693.9	1624.8
17.5°	1996.5	1995.0	1974.5	1935.0	1894.1	1869.8	1864.6	1846.3	1807.6	1750.0	1677.2
20°	1952.5	1955.5	1941.9	1913.8	1894.1	1883.5	1881.2	1875.1	1847.8	1794.0	1721.2
22.5°	1905.5	1910.8	1897.9	1882.7	1881.2	1891.8	1893.4	1894.9	1877.4	1825.1	1758.3
25°	1894.1	1897.9	1885.0	1871.4	1879.7	1907.8	1913.8	1919.9	1906.2	1862.2	1802.3
27.5°	1951.8	1948.7	1923.7	1894.1	1899.4	1937.4	1945.7	1952.5	1945.7	1907.8	1857.0
30°	2114.8	2105.0	2054.9	1968.5	1941.1	1967.7	1976.1	1995.0	1995.0	1966.9	1916.1
32.5°	2387.9	2369.0	2277.2	2107.3	2012.5	1996.5	2004.9	2036.0	2051.9	2029.8	1974.5
35°	2719.4	2699.7	2568.5	2340.2	2142.9	2054.1	2051.9	2086.8	2129.3	2080.0	2007.9
37.5°	3052.4	3031.9	2874.2	2617.7	2333.3	2175.5	2161.9	2174.0	2192.2	2102.0	2054.1
40°	3385.4	3361.1	3223.1	2928.0	2566.2	2336.3	2300.7	2246.0	2238.5	2174.0	2143.7
42.5°	3715.4	3693.4	3623.6	3276.2	2845.3	2493.4	2438.7	2344.7	2373.5	2334.8	2308.3
45°	4048.4	4049.9	3975.6	3666.9	3182.1	2783.1	2709.6	2562.4	2630.6	2616.2	2631.4
47.5°	4343.5	4339.7	4313.2	4046.2	3600.1	3156.4	3061.5	2890.8	3007.7	3060.7	3176.8
50°	4629.4	4627.1	4628.7	4476.2	4085.5	3600.1	3495.4	3316.4	3579.6	3764.0	3971.8
52.5°	5039.1	5051.9	4960.1	4920.0	4675.7	4124.2	4009.0	3823.9	4255.4	4546.0	4951.8
55°	5450.2	5439.6	5367.5	5409.2	5293.2	4744.7	4624.2	4477.0	5008.0	5325.8	5935.7
57.5°	5692.2	5695.9	5769.5	5973.6	6055.5	5518.4	5409.2	5295.4	5853.7	6079.1	6811.0
60°	5909.8	5927.3	6139.0	6524.3	6746.6	6468.9	6371.8	6261.1	6629.7	6719.2	7571.1
62.5°	5978.1	6032.0	6401.4	6977.9	7420.2	7541.5	7420.9	7176.7	7368.6	7333.7	8086.2
65°	5637.5	5711.1	6373.4	7147.9	8021.7	8559.5	8482.9	8029.3	7998.2	7788.0	8170.4
67.5°	4740.9	4814.5	5664.8	6791.4	8270.5	9440.9	9364.3	8651.3	8380.4	7830.5	7533.2
70°	3468.8	3515.1	4328.3	5717.9	7770.6	9736.8	9763.3	8954.7	8244.0	7253.2	6185.2
72.5°	1998.8	2101.2	2670.9	4022.6	6348.3	8988.8	9173.2	8323.6	7380.7	6050.9	4324.5
75°	859.4	861.7	1234.9	2218.8	4299.5	7225.2	7403.5	6899.8	5796.1	4184.2	2309.1
77.5°	408.9	416.5	543.1	990.7	2366.7	4992.0	5472.9	4874.5	3707.0	2010.2	872.3
80°	265.5	270.8	332.2	491.6	1160.6	2894.6	3229.9	2812.0	1635.5	718.3	376.2
82.5°	160.8	162.3	222.3	300.4	638.7	1310.7	1545.2	1220.5	697.9	430.1	221.5
85°	97.9	98.6	135.0	185.9	387.6	452.9	465.0	461.2	409.6	281.4	118.3
87.5°	47.1	48.5	69.8	88.0	152.5	140.3	132.7	154.0	193.4	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°	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0
2.5°	1421.5	1419.3	1413.9	1411.7	1410.2	1410.9	1410.2	1410.2	1410.9	1410.9	1410.9
5°	1428.3	1424.6	1416.2	1416.2	1420.8	1431.4	1441.3	1448.9	1457.2	1456.4	1456.4
7.5°	1457.9	1451.1	1441.3	1444.2	1455.7	1472.4	1489.8	1506.5	1523.2	1524.7	1524.0
10°	1501.2	1494.4	1483.7	1487.5	1505.7	1530.8	1552.8	1577.0	1595.2	1600.5	1599.0
12.5°	1550.5	1536.8	1527.7	1538.4	1567.2	1600.5	1621.7	1640.0	1652.9	1660.5	1657.5
15°	1600.5	1587.6	1577.0	1599.0	1633.9	1665.0	1675.6	1678.7	1680.9	1688.5	1687.1
17.5°	1649.1	1631.6	1627.9	1656.7	1690.0	1703.7	1697.6	1684.8	1674.9	1680.9	1680.2
20°	1692.3	1678.7	1677.2	1706.0	1718.8	1706.0	1680.2	1657.5	1640.0	1641.5	1640.8
22.5°	1733.3	1722.7	1724.2	1736.3	1715.9	1671.9	1629.3	1598.3	1579.3	1583.1	1585.3
25°	1778.8	1768.2	1772.0	1752.3	1684.8	1608.1	1546.7	1520.1	1512.5	1520.1	1525.4
27.5°	1837.9	1831.1	1828.9	1753.0	1629.3	1514.1	1444.2	1434.5	1441.3	1457.9	1466.2
30°	1901.7	1901.7	1889.5	1740.1	1553.6	1401.0	1340.3	1341.9	1365.4	1388.9	1397.3
32.5°	1963.1	1976.1	1938.1	1705.2	1455.7	1291.1	1244.8	1246.3	1266.8	1295.6	1303.2
35°	2014.0	2051.1	1979.8	1641.5	1340.3	1198.5	1163.6	1143.1	1143.9	1165.9	1172.0
37.5°	2083.7	2152.8	2004.1	1546.7	1217.5	1119.6	1080.1	1044.5	1021.0	1011.9	1011.9
40°	2205.1	2306.7	2010.2	1406.3	1101.4	1044.5	988.4	945.9	900.4	859.4	851.8
42.5°	2410.7	2538.9	1998.1	1244.8	996.8	961.8	907.3	854.9	791.9	734.3	729.8
45°	2774.8	2840.8	1965.4	1077.2	903.4	882.2	829.1	772.2	705.5	653.9	650.0
47.5°	3358.1	3264.8	1922.2	928.5	818.5	812.4	771.4	705.5	638.7	603.1	599.2
50°	4210.0	3932.3	1916.1	820.7	750.2	753.2	719.9	659.2	600.8	571.2	566.7
52.5°	5235.5	4738.6	1956.3	744.9	690.3	701.6	685.0	628.8	577.2	552.2	547.7
55°	6230.7	5463.9	1980.6	685.8	634.2	655.4	657.6	610.7	563.6	538.5	535.6
57.5°	7038.6	6010.0	1872.9	631.9	585.6	618.3	634.9	600.0	556.8	537.8	534.8
60°	7600.7	6267.9	1566.4	584.1	550.0	588.7	626.6	600.8	573.5	575.7	577.2
62.5°	7779.7	6153.4	1175.0	548.4	525.7	578.8	640.2	631.9	603.8	621.2	624.3
65°	7483.1	5680.0	851.8	520.4	504.4	585.6	681.2	654.7	593.2	606.1	606.1
67.5°	6490.1	4893.4	663.0	494.5	480.1	598.5	722.2	652.3	568.1	583.3	569.7
70°	5148.3	3785.2	552.2	465.7	454.4	579.5	725.9	628.8	538.5	541.6	515.8
72.5°	3416.5	2488.8	474.9	438.5	414.9	521.1	694.8	598.5	509.7	492.3	466.5
75°	1674.1	1241.0	414.2	404.3	363.3	453.6	652.3	569.7	478.6	451.3	436.9
77.5°	648.6	528.0	353.4	361.0	316.3	399.7	596.3	528.7	437.7	400.5	389.2
80°	314.8	299.7	289.8	301.1	260.2	340.6	544.7	493.1	399.7	358.8	342.1
82.5°	195.7	185.1	222.3	234.4	200.3	311.0	516.5	462.8	352.0	297.4	283.7
85°	99.4	106.2	148.7	160.0	143.4	247.3	425.6	347.4	254.1	210.9	212.4
87.5°	37.9	50.8	78.1	84.2	76.6	130.4	234.4	202.6	163.1	110.7	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)