

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: P522723

Luminaire Tested: **GALN-SA4A-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522723
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-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 16488 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

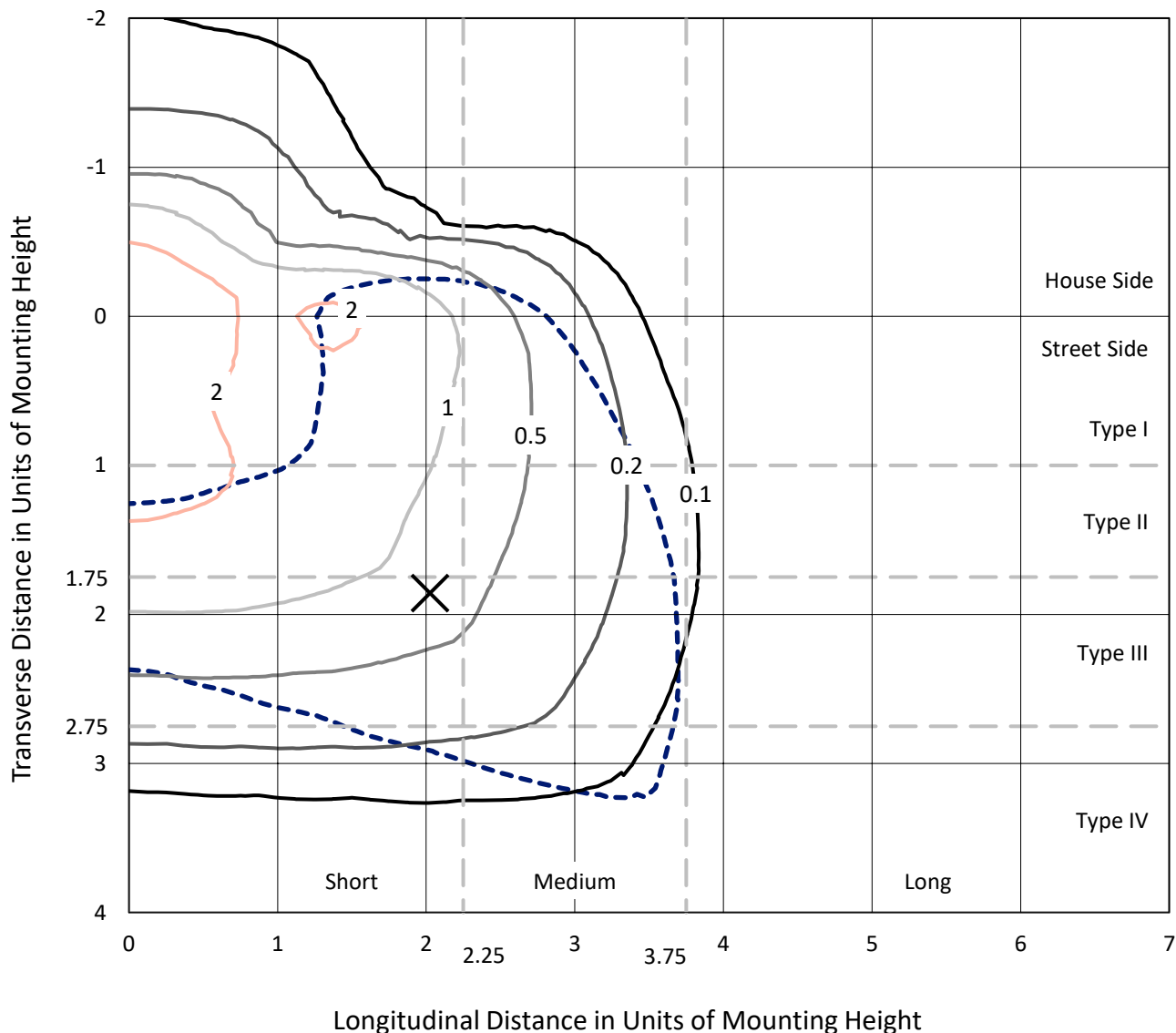
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

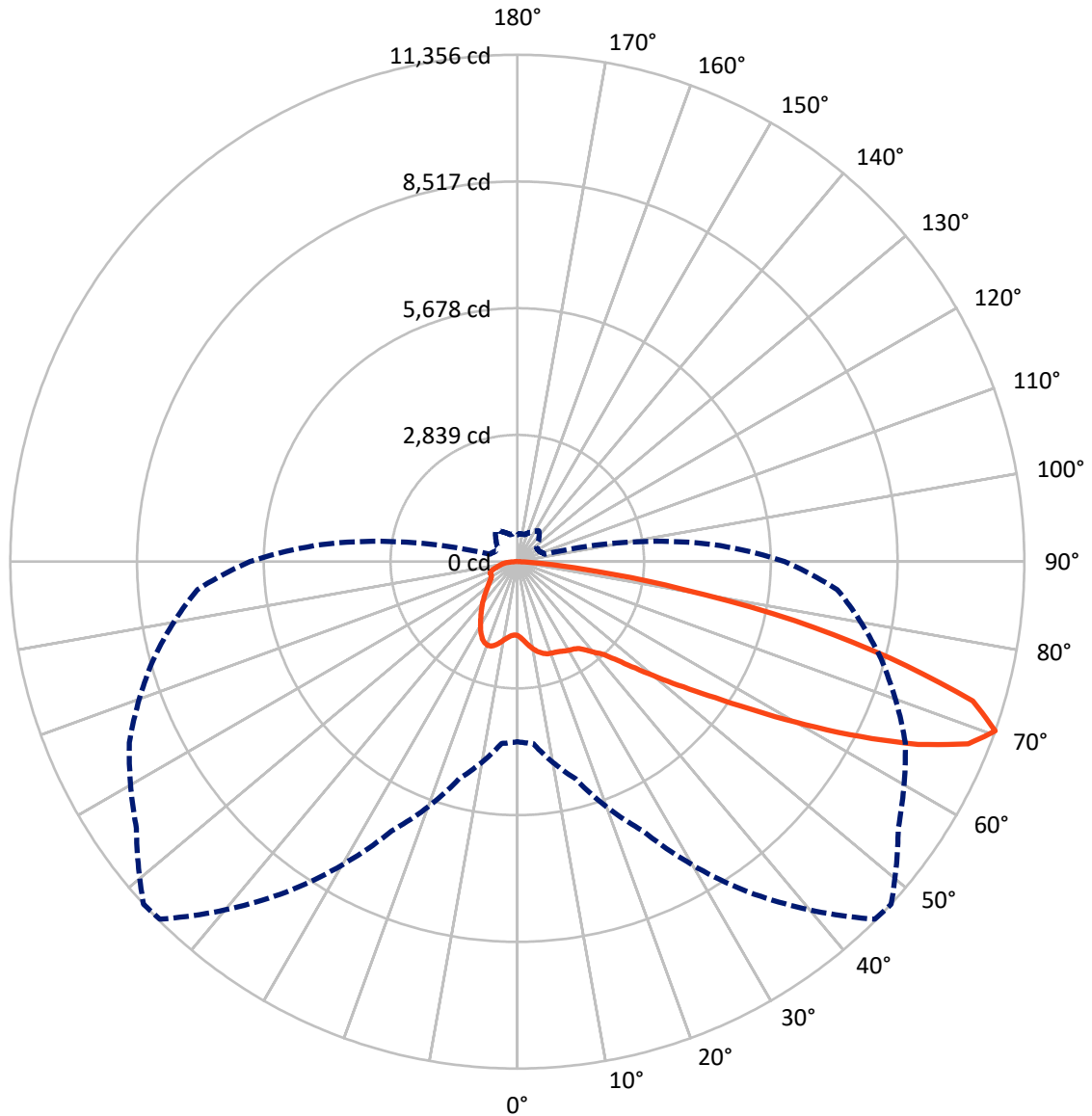
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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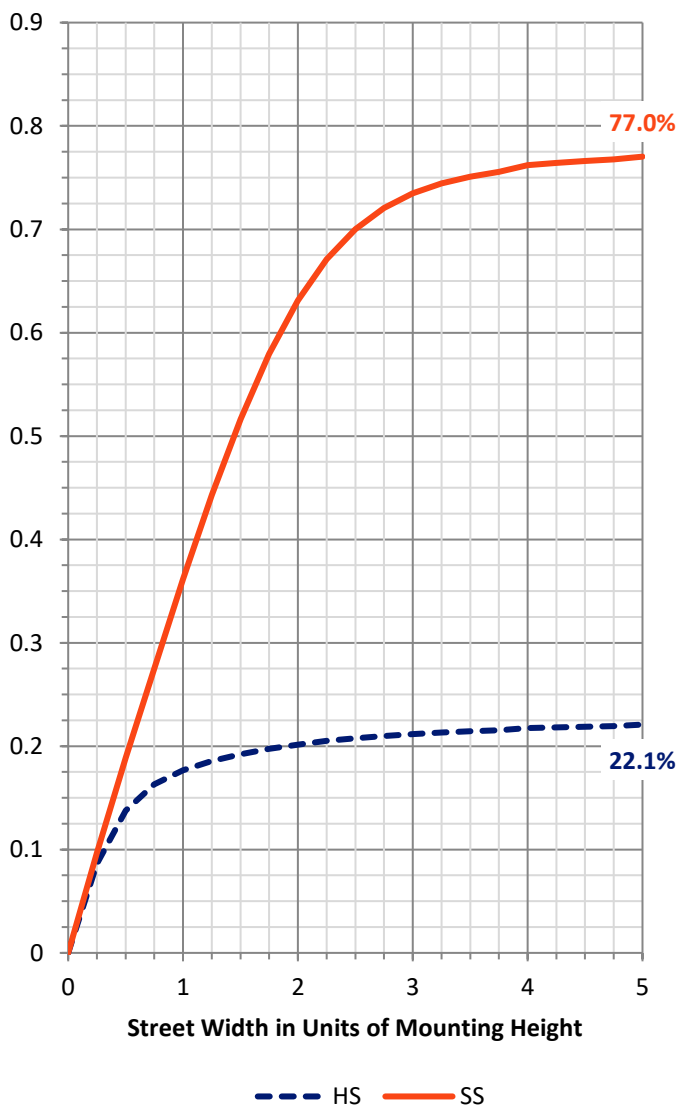
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3733.2	0.0	3733.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	12754.8	0.0	12754.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	16488.0	0.0	16488.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	1.0
10°-20°	570.4	3.5
20°-30°	948.5	5.8
30°-40°	1344.4	8.2
40°-50°	1984.6	12.0
50°-60°	3437.5	20.8
60°-70°	4855.6	29.4
70°-80°	2791.2	16.9
80°-90°	385.1	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°	16488.0	100.0
0°-180°	16488.0	100.0

Coefficient of Utilization



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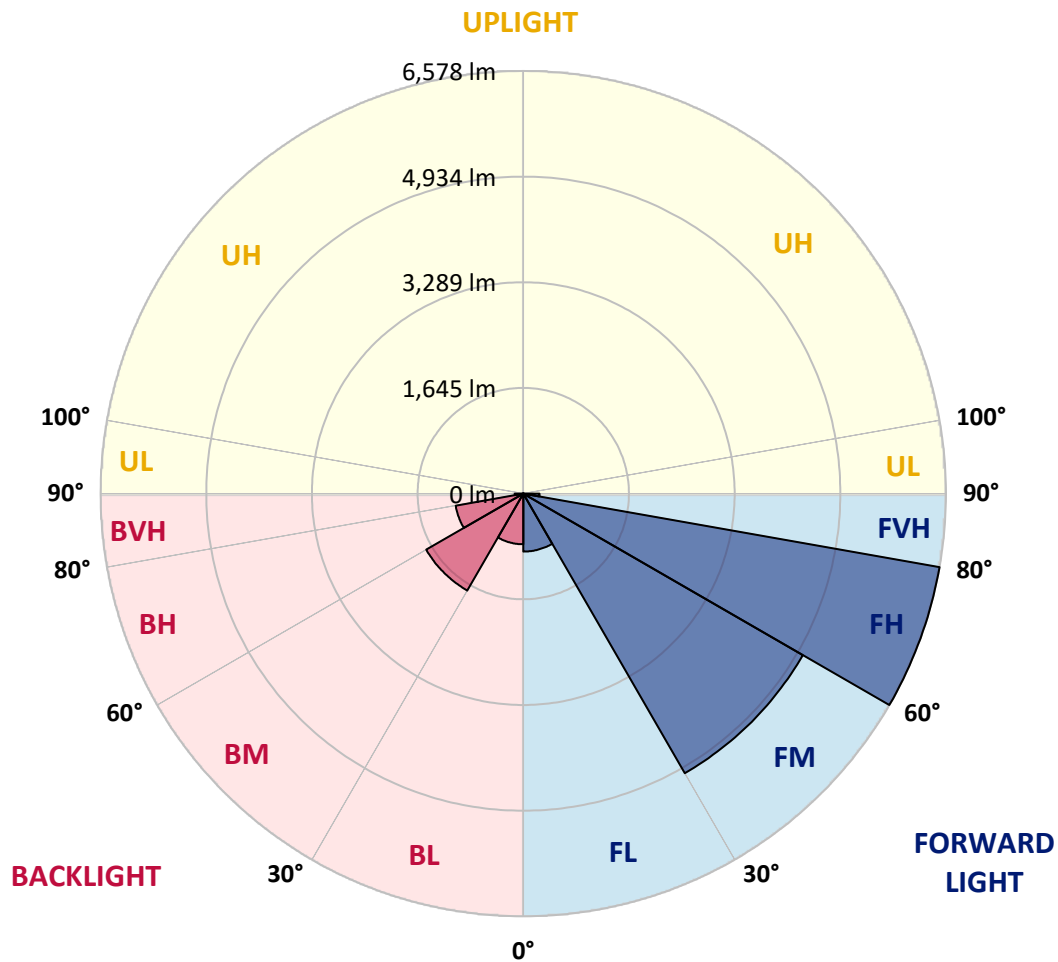
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	901.6	5.5			
FM (30°-60°)	5023.6	30.5			
FH (60°-80°)	6578.0	39.9			G3/7500
FVH (80°-90°)	251.6	1.5			G3/500
BL (0°-30°)	787.9	4.8	B2/1000		
BM (30°-60°)	1743.0	10.6	B2/2500		
BH (60°-80°)	1068.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	133.5	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-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°	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2
2.5°	1762.0	1755.8	1754.9	1741.7	1734.6	1721.4	1716.1	1703.7	1688.7	1673.7	1659.6
5°	1900.5	1900.5	1894.3	1875.8	1846.7	1816.7	1803.4	1779.6	1737.3	1702.8	1673.7
7.5°	2042.5	2044.3	2031.9	2004.6	1963.1	1914.6	1902.2	1866.9	1807.0	1756.7	1713.4
10°	2165.2	2165.2	2148.4	2111.3	2059.3	2006.4	1994.0	1954.3	1887.2	1824.6	1768.1
12.5°	2258.7	2258.7	2236.6	2188.1	2131.6	2084.0	2069.9	2031.9	1969.3	1899.6	1828.1
15°	2319.6	2315.2	2290.5	2235.8	2181.0	2139.6	2129.9	2098.1	2040.8	1970.2	1889.9
17.5°	2322.2	2320.5	2296.6	2250.8	2203.1	2174.9	2168.7	2147.5	2102.5	2035.5	1950.8
20°	2271.0	2274.6	2258.7	2226.0	2203.1	2190.8	2188.1	2181.0	2149.3	2086.6	2001.9
22.5°	2216.3	2222.5	2207.5	2189.9	2188.1	2200.5	2202.2	2204.0	2183.7	2122.8	2045.2
25°	2203.1	2207.5	2192.5	2176.6	2186.3	2219.0	2226.0	2233.1	2217.2	2166.0	2096.3
27.5°	2270.2	2266.6	2237.5	2203.1	2209.3	2253.4	2263.1	2271.0	2263.1	2219.0	2159.9
30°	2459.9	2448.4	2390.2	2289.6	2257.8	2288.7	2298.4	2320.5	2320.5	2287.8	2228.7
32.5°	2777.5	2755.4	2648.7	2451.0	2340.7	2322.2	2331.9	2368.1	2386.6	2361.0	2296.6
35°	3163.0	3140.1	2987.5	2721.9	2492.5	2389.3	2386.6	2427.2	2476.6	2419.3	2335.5
37.5°	3550.4	3526.6	3343.0	3044.8	2714.0	2530.4	2514.6	2528.7	2549.9	2444.9	2389.3
40°	3937.7	3909.5	3748.9	3405.7	2984.8	2717.5	2676.0	2612.5	2603.7	2528.7	2493.4
42.5°	4321.5	4295.9	4214.8	3810.7	3309.5	2900.1	2836.6	2727.2	2760.7	2715.7	2684.8
45°	4708.8	4710.6	4624.1	4265.0	3701.3	3237.2	3151.6	2980.4	3059.8	3043.1	3060.7
47.5°	5052.1	5047.6	5016.8	4706.2	4187.4	3671.3	3561.0	3362.4	3498.3	3560.1	3695.1
50°	5384.7	5382.0	5383.8	5206.5	4752.1	4187.4	4065.6	3857.4	4163.6	4378.0	4619.7
52.5°	5861.1	5876.1	5769.4	5722.6	5438.5	4797.1	4663.0	4447.7	4949.7	5287.6	5759.7
55°	6339.3	6327.0	6243.2	6291.7	6156.7	5518.8	5378.5	5207.3	5825.0	6194.6	6904.0
57.5°	6620.8	6625.2	6710.8	6948.1	7043.4	6418.7	6291.7	6159.3	6808.7	7070.8	7922.2
60°	6874.0	6894.3	7140.5	7588.7	7847.2	7524.3	7411.3	7282.5	7711.3	7815.4	8806.2
62.5°	6953.4	7016.1	7445.7	8116.3	8630.7	8771.8	8631.6	8347.5	8570.7	8530.1	9405.3
65°	6557.3	6642.8	7413.1	8313.9	9330.3	9955.9	9866.8	9339.2	9303.0	9058.6	9503.3
67.5°	5514.4	5600.0	6589.0	7899.2	9619.7	10981.1	10892.0	10062.6	9747.7	9108.0	8762.1
70°	4034.8	4088.6	5034.4	6650.8	9038.3	11325.2	11356.1	10415.6	9588.8	8436.6	7194.3
72.5°	2324.9	2444.0	3106.6	4678.8	7384.0	10455.3	10669.7	9681.5	8584.8	7038.1	5030.0
75°	999.6	1002.3	1436.4	2580.7	5000.9	8403.9	8611.3	8025.4	6741.7	4866.8	2685.7
77.5°	475.6	484.4	631.7	1152.3	2752.8	5806.4	6365.8	5669.7	4311.8	2338.1	1014.6
80°	308.8	315.0	386.4	571.7	1349.9	3366.9	3756.8	3270.7	1902.2	835.5	437.6
82.5°	187.0	188.8	258.5	349.4	742.9	1524.6	1797.2	1419.6	811.7	500.3	257.6
85°	113.8	114.7	157.0	216.2	450.9	526.7	540.9	536.4	476.4	327.3	137.6
87.5°	54.7	56.5	81.2	102.3	177.3	163.2	154.4	179.1	225.0	176.5	59.1
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°	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2	1655.2
2.5°	1653.4	1650.8	1644.6	1642.0	1640.2	1641.1	1640.2	1640.2	1641.1	1641.1	1641.1
5°	1661.4	1657.0	1647.3	1647.3	1652.5	1664.9	1676.4	1685.2	1694.9	1694.0	1694.0
7.5°	1695.8	1687.8	1676.4	1679.9	1693.1	1712.5	1732.8	1752.2	1771.7	1773.4	1772.5
10°	1746.1	1738.1	1725.8	1730.2	1751.4	1780.5	1806.1	1834.3	1855.5	1861.7	1859.9
12.5°	1803.4	1787.5	1777.0	1789.3	1822.8	1861.7	1886.4	1907.5	1922.5	1931.4	1927.8
15°	1861.7	1846.7	1834.3	1859.9	1900.5	1936.7	1949.0	1952.5	1955.2	1964.0	1962.2
17.5°	1918.1	1897.8	1893.4	1926.9	1965.8	1981.6	1974.6	1959.6	1948.1	1955.2	1954.3
20°	1968.4	1952.5	1950.8	1984.3	1999.3	1984.3	1954.3	1927.8	1907.5	1909.3	1908.4
22.5°	2016.1	2003.7	2005.5	2019.6	1995.8	1944.6	1895.2	1859.0	1837.0	1841.4	1844.0
25°	2069.0	2056.6	2061.1	2038.1	1959.6	1870.5	1799.0	1768.1	1759.3	1768.1	1774.3
27.5°	2137.8	2129.9	2127.2	2039.0	1895.2	1761.1	1679.9	1668.4	1676.4	1695.8	1705.5
30°	2211.9	2211.9	2197.8	2024.0	1807.0	1629.6	1559.0	1560.8	1588.1	1615.5	1625.2
32.5°	2283.4	2298.4	2254.3	1983.4	1693.1	1501.7	1447.9	1449.6	1473.4	1507.0	1515.8
35°	2342.5	2385.7	2302.8	1909.3	1559.0	1394.0	1353.4	1329.6	1330.5	1356.1	1363.2
37.5°	2423.7	2504.0	2331.0	1799.0	1416.1	1302.3	1256.4	1214.9	1187.6	1177.0	1177.0
40°	2564.8	2683.1	2338.1	1635.8	1281.1	1214.9	1149.6	1100.2	1047.3	999.6	990.8
42.5°	2804.0	2953.1	2324.0	1447.9	1159.3	1118.8	1055.2	994.4	921.1	854.1	848.8
45°	3227.5	3304.2	2286.0	1252.9	1050.8	1026.1	964.4	898.2	820.5	760.5	756.1
47.5°	3905.9	3797.4	2235.8	1079.9	952.0	944.9	897.3	820.5	742.9	701.4	697.0
50°	4896.8	4573.8	2228.7	954.6	872.6	876.1	837.3	766.7	698.8	664.4	659.1
52.5°	6089.6	5511.7	2275.5	866.4	802.9	816.1	796.7	731.4	671.4	642.3	637.0
55°	7247.2	6355.2	2303.7	797.6	737.6	762.3	765.0	710.3	655.5	626.4	622.9
57.5°	8186.9	6990.5	2178.4	735.0	681.1	719.1	738.5	697.9	647.6	625.6	622.0
60°	8840.7	7290.5	1822.0	679.4	639.7	684.7	728.8	698.8	667.0	669.7	671.4
62.5°	9048.9	7157.2	1366.7	637.9	611.4	673.2	744.7	735.0	702.3	722.6	726.1
65°	8703.9	6606.7	990.8	605.3	586.7	681.1	792.3	761.4	690.0	705.0	705.0
67.5°	7549.0	5691.7	771.1	575.3	558.5	696.1	840.0	758.8	660.8	678.5	662.6
70°	5988.2	4402.7	642.3	541.7	528.5	674.1	844.4	731.4	626.4	630.0	600.0
72.5°	3973.9	2894.8	552.3	510.0	482.6	606.1	808.2	696.1	592.9	572.6	542.6
75°	1947.2	1443.4	481.7	470.3	422.6	527.6	758.8	662.6	556.7	525.0	508.2
77.5°	754.4	614.1	411.2	420.0	367.9	465.0	693.5	615.0	509.1	465.9	452.6
80°	366.2	348.5	337.0	350.3	302.6	396.2	633.5	573.5	465.0	417.3	397.9
82.5°	227.6	215.3	258.5	272.6	232.9	361.7	600.8	538.2	409.4	345.9	330.0
85°	115.6	123.5	172.9	186.2	166.8	287.6	495.0	404.1	295.6	245.3	247.0
87.5°	44.1	59.1	90.9	97.9	89.1	151.8	272.6	235.6	189.7	128.8	119.1
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)