

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: P652312

Luminaire Tested: **GALN-SA3B-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P652312
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-SA3B-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14296.2 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

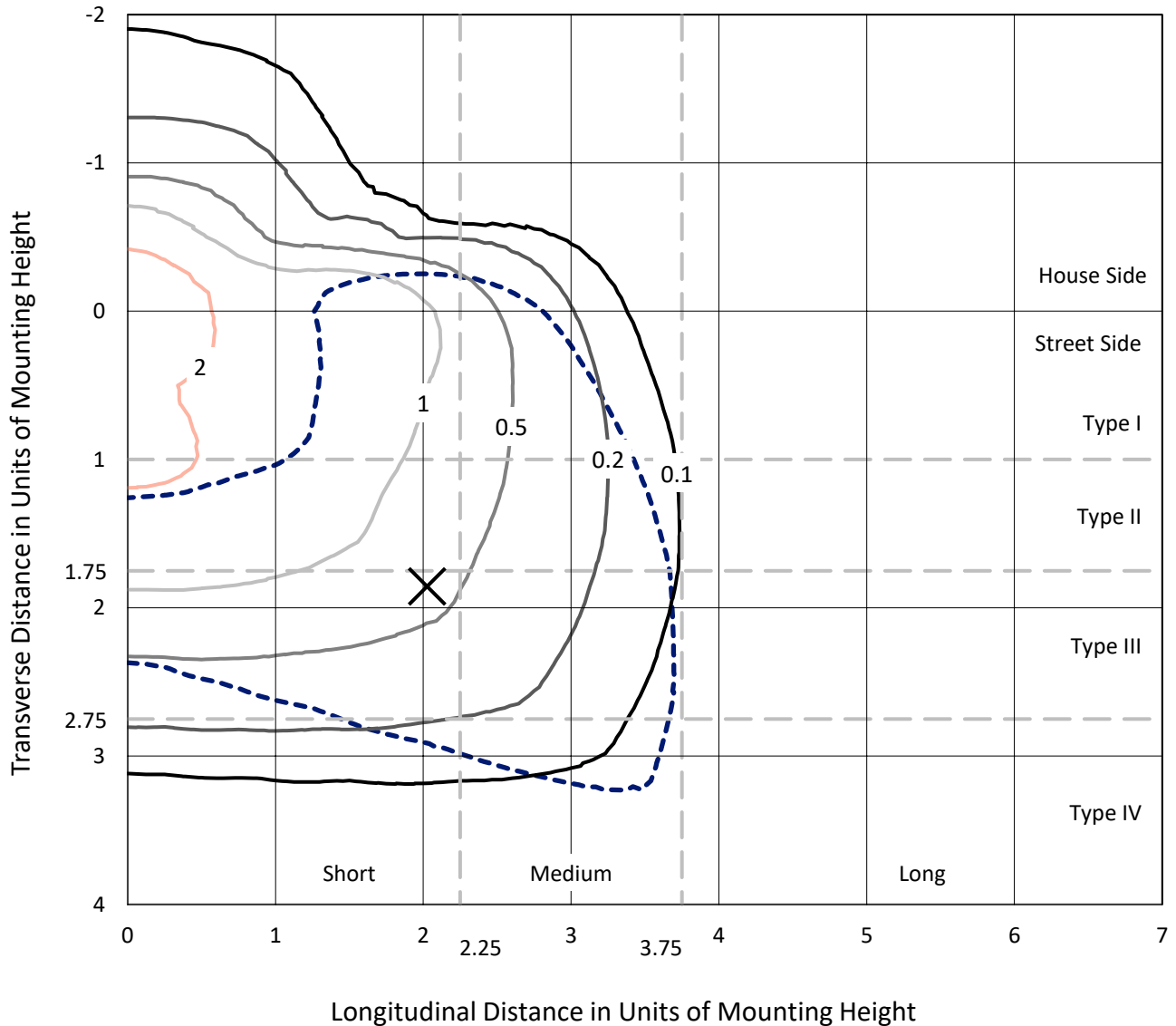
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

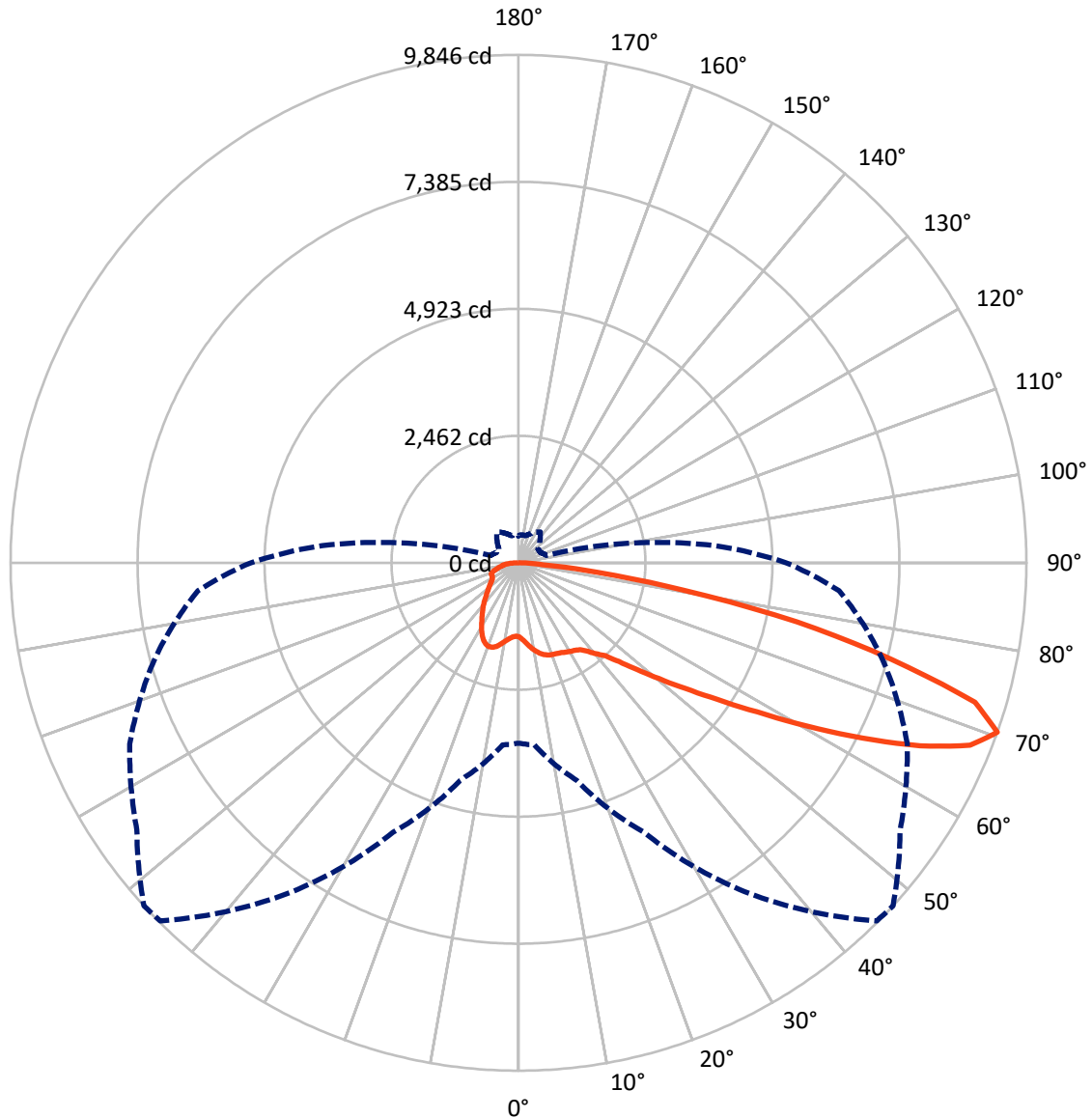
× Max cd
 - - - 1/2 Max cd



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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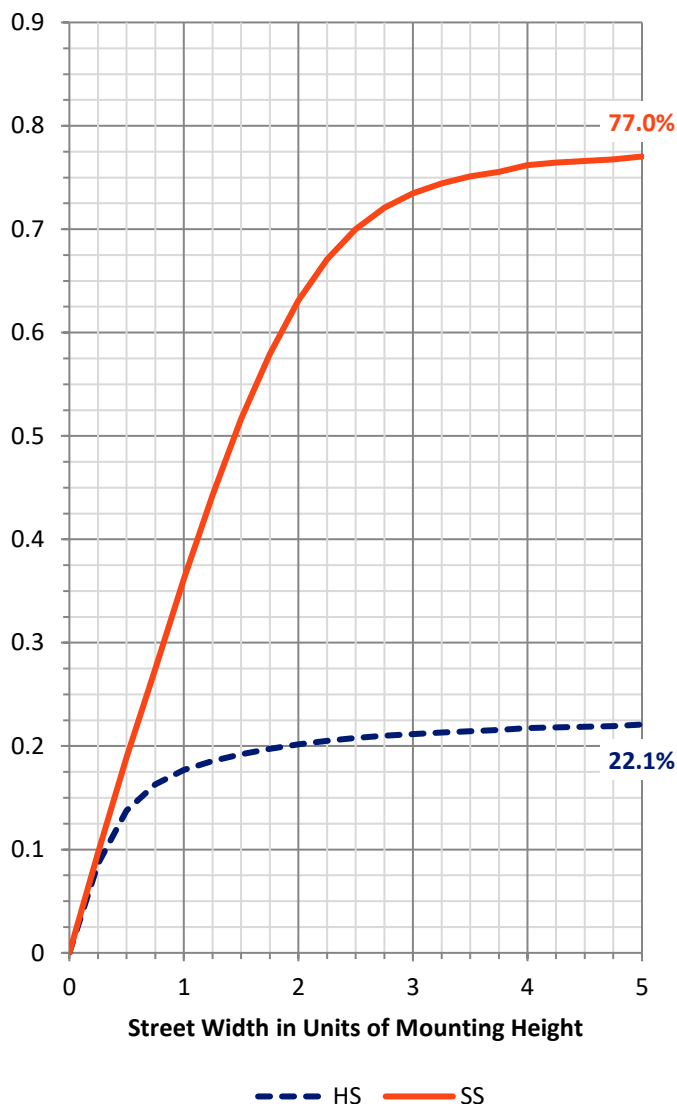
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3236.9	0.0	3236.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	11059.2	0.0	11059.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	14296.2	0.0	14296.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	1.0
10°-20°	494.6	3.5
20°-30°	822.4	5.8
30°-40°	1165.7	8.2
40°-50°	1720.8	12.0
50°-60°	2980.5	20.8
60°-70°	4210.1	29.4
70°-80°	2420.2	16.9
80°-90°	333.9	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°	14296.2	100.0
0°-180°	14296.2	100.0

Coefficient of Utilization



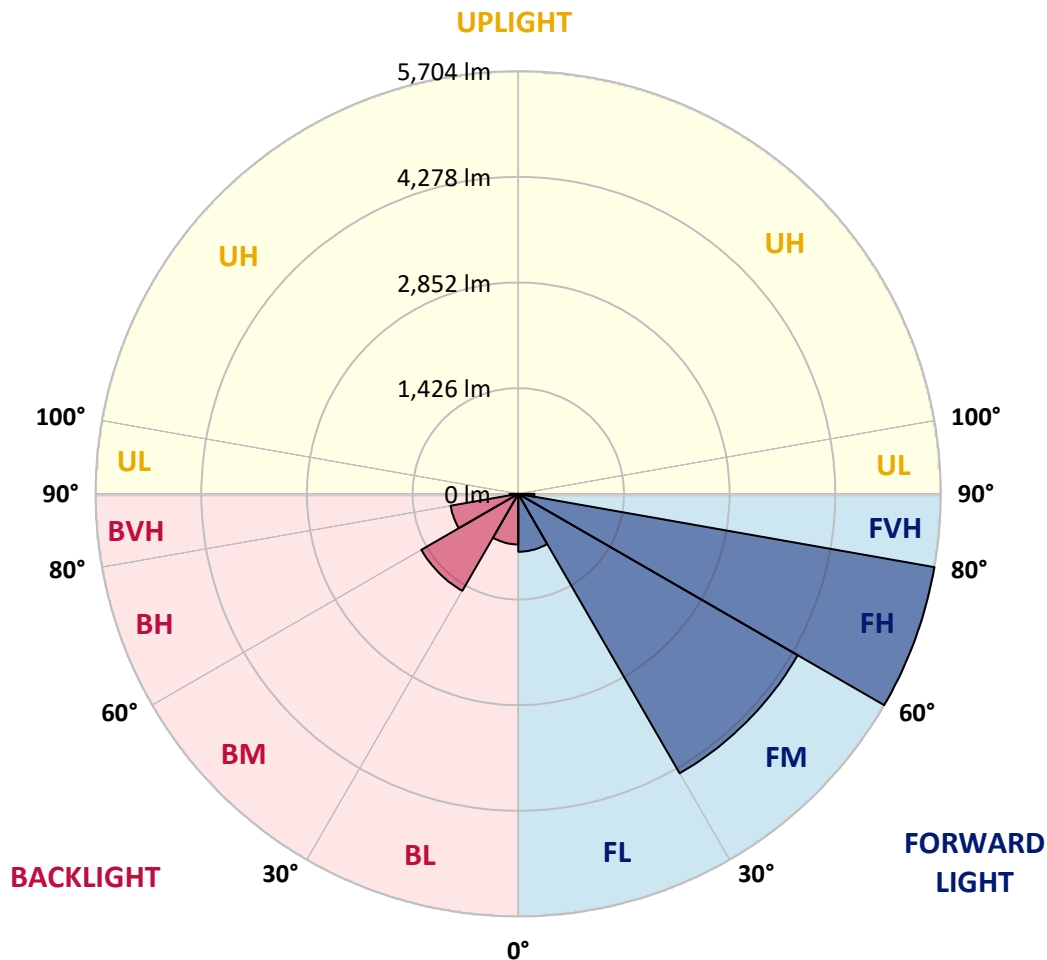
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	781.8	5.5			
FM (30°-60°)	4355.8	30.5			
FH (60°-80°)	5703.6	39.9			G3/7500
FVH (80°-90°)	218.1	1.5			G2/225
BL (0°-30°)	683.2	4.8	B2/1000		
BM (30°-60°)	1511.3	10.6	B2/2500		
BH (60°-80°)	926.7	6.5	B2/1000		G2/1000
BVH (80°-90°)	115.8	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°	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2
2.5°	1527.8	1522.4	1521.6	1510.1	1504.0	1492.5	1488.0	1477.2	1464.3	1451.2	1439.0
5°	1647.9	1647.9	1642.5	1626.4	1601.2	1575.2	1563.7	1543.1	1506.3	1476.5	1451.2
7.5°	1771.0	1772.5	1761.8	1738.1	1702.2	1660.0	1649.4	1618.8	1566.8	1523.1	1485.6
10°	1877.4	1877.4	1862.8	1830.7	1785.5	1739.6	1728.9	1694.5	1636.3	1582.0	1533.1
12.5°	1958.4	1958.4	1939.3	1897.2	1848.3	1807.0	1794.7	1761.8	1707.5	1647.1	1585.1
15°	2011.3	2007.4	1985.9	1938.5	1891.1	1855.2	1846.8	1819.2	1769.5	1708.2	1638.7
17.5°	2013.5	2012.0	1991.3	1951.5	1910.2	1885.8	1880.4	1862.1	1823.0	1764.9	1691.4
20°	1969.1	1972.2	1958.4	1930.1	1910.2	1899.5	1897.2	1891.1	1863.6	1809.2	1735.8
22.5°	1921.7	1927.1	1914.0	1898.7	1897.2	1908.0	1909.5	1911.0	1893.4	1840.6	1773.3
25°	1910.2	1914.0	1901.1	1887.3	1895.7	1924.0	1930.1	1936.2	1922.4	1878.1	1817.7
27.5°	1968.4	1965.3	1940.1	1910.2	1915.6	1953.8	1962.2	1969.1	1962.2	1924.0	1872.7
30°	2132.9	2122.9	2072.4	1985.2	1957.7	1984.4	1992.8	2012.0	2012.0	1983.7	1932.4
32.5°	2408.3	2389.1	2296.6	2125.2	2029.6	2013.5	2021.9	2053.3	2069.4	2047.2	1991.3
35°	2742.6	2722.7	2590.4	2360.1	2161.1	2071.6	2069.4	2104.5	2147.4	2097.6	2025.0
37.5°	3078.4	3057.8	2898.6	2640.1	2353.2	2194.1	2180.3	2192.5	2210.9	2119.8	2071.6
40°	3414.2	3389.7	3250.5	2952.9	2588.0	2356.2	2320.3	2265.2	2257.6	2192.5	2162.0
42.5°	3747.0	3724.9	3654.5	3304.1	2869.6	2514.6	2459.5	2364.6	2393.7	2354.7	2328.0
45°	4082.9	4084.4	4009.5	3698.0	3209.3	2806.8	2732.7	2584.2	2653.1	2638.6	2653.9
47.5°	4380.4	4376.6	4349.8	4080.5	3630.8	3183.2	3087.6	2915.5	3033.2	3086.8	3203.9
50°	4668.9	4666.5	4668.1	4514.3	4120.4	3630.8	3525.1	3344.7	3610.1	3796.0	4005.6
52.5°	5082.0	5094.9	5002.4	4961.9	4715.6	4159.3	4043.1	3856.4	4291.7	4584.7	4994.0
55°	5496.6	5485.9	5413.3	5455.3	5338.2	4785.1	4663.5	4515.1	5050.6	5371.1	5986.2
57.5°	5740.7	5744.5	5818.7	6024.5	6107.1	5565.5	5455.3	5340.5	5903.6	6130.8	6869.0
60°	5960.2	5977.8	6191.3	6579.9	6804.0	6524.1	6426.1	6314.4	6686.2	6776.4	7635.6
62.5°	6029.0	6083.4	6455.9	7037.3	7483.4	7605.8	7484.1	7237.8	7431.3	7396.2	8155.0
65°	5685.6	5759.8	6427.6	7208.7	8090.0	8632.4	8555.2	8097.7	8066.3	7854.4	8239.9
67.5°	4781.3	4855.5	5713.1	6849.2	8341.0	9521.3	9444.1	8725.0	8451.9	7897.2	7597.3
70°	3498.4	3545.1	4365.1	5766.7	7836.8	9819.7	9846.4	9031.0	8314.1	7315.0	6237.9
72.5°	2015.8	2119.1	2693.6	4056.9	6402.4	9065.4	9251.3	8394.4	7443.6	6102.5	4361.3
75°	866.7	869.1	1245.4	2237.6	4336.1	7286.8	7466.5	6958.5	5845.5	4219.8	2328.7
77.5°	412.3	420.0	547.7	999.1	2386.8	5034.6	5519.6	4916.0	3738.6	2027.3	879.8
80°	267.8	273.1	335.1	495.8	1170.5	2919.3	3257.4	2835.9	1649.4	724.4	379.5
82.5°	162.1	163.7	224.1	302.9	644.1	1322.0	1558.3	1230.9	703.8	433.8	223.4
85°	98.6	99.5	136.2	187.5	390.9	456.7	468.9	465.2	413.1	283.8	119.3
87.5°	47.4	48.9	70.4	88.7	153.7	141.5	133.9	155.3	195.1	153.0	51.2
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°	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2	1435.2
2.5°	1433.7	1431.3	1426.0	1423.7	1422.1	1422.9	1422.1	1422.1	1422.9	1422.9	1422.9
5°	1440.5	1436.7	1428.3	1428.3	1432.9	1443.6	1453.5	1461.2	1469.6	1468.8	1468.8
7.5°	1470.3	1463.5	1453.5	1456.6	1468.0	1484.9	1502.4	1519.4	1536.2	1537.7	1536.9
10°	1514.0	1507.1	1496.4	1500.2	1518.5	1543.8	1565.9	1590.5	1608.8	1614.2	1612.6
12.5°	1563.7	1549.9	1540.7	1551.5	1580.5	1614.2	1635.6	1654.0	1666.9	1674.6	1671.6
15°	1614.2	1601.2	1590.5	1612.6	1647.9	1679.2	1689.9	1692.9	1695.3	1702.9	1701.4
17.5°	1663.2	1645.5	1641.7	1670.8	1704.5	1718.2	1712.1	1699.1	1689.1	1695.3	1694.5
20°	1706.7	1692.9	1691.4	1720.5	1733.6	1720.5	1694.5	1671.6	1654.0	1655.5	1654.8
22.5°	1748.0	1737.3	1738.9	1751.1	1730.4	1686.1	1643.2	1611.9	1592.8	1596.6	1598.9
25°	1793.9	1783.3	1787.0	1767.2	1699.1	1621.8	1559.9	1533.1	1525.4	1533.1	1538.4
27.5°	1853.6	1846.8	1844.5	1768.0	1643.2	1527.0	1456.6	1446.6	1453.5	1470.3	1478.7
30°	1917.9	1917.9	1905.6	1754.9	1566.8	1413.0	1351.7	1353.3	1377.1	1400.8	1409.2
32.5°	1979.9	1992.8	1954.6	1719.8	1468.0	1302.0	1255.4	1256.9	1277.6	1306.7	1314.3
35°	2031.1	2068.6	1996.7	1655.5	1351.7	1208.7	1173.5	1152.8	1153.6	1175.8	1181.9
37.5°	2101.5	2171.1	2021.2	1559.9	1227.9	1129.1	1089.3	1053.4	1029.7	1020.6	1020.6
40°	2223.9	2326.4	2027.3	1418.3	1110.8	1053.4	996.8	953.9	908.0	866.7	859.1
42.5°	2431.2	2560.5	2015.0	1255.4	1005.2	970.0	914.9	862.2	798.7	740.5	736.0
45°	2798.4	2865.0	1982.2	1086.3	911.1	889.7	836.1	778.8	711.5	659.4	655.6
47.5°	3386.7	3292.6	1938.5	936.4	825.4	819.3	778.0	711.5	644.1	608.2	604.3
50°	4245.8	3965.8	1932.4	827.7	756.6	759.7	726.0	664.8	605.9	576.1	571.5
52.5°	5280.1	4779.1	1973.0	751.3	696.2	707.6	690.8	634.2	582.1	556.9	552.4
55°	6283.8	5510.4	1997.5	691.6	639.6	660.9	663.3	615.9	568.4	543.1	540.1
57.5°	7098.5	6061.2	1888.8	637.2	590.6	623.5	640.3	605.1	561.5	542.4	539.3
60°	7665.4	6321.3	1579.7	589.0	554.6	593.7	631.9	605.9	578.4	580.6	582.1
62.5°	7845.9	6205.7	1185.0	553.1	530.2	583.7	645.6	637.2	609.0	626.5	629.6
65°	7546.9	5728.4	859.1	524.8	508.7	590.6	687.0	660.2	598.2	611.2	611.2
67.5°	6545.4	4935.1	668.6	498.8	484.2	603.6	728.3	657.9	573.0	588.3	574.5
70°	5192.2	3817.4	556.9	469.7	458.3	584.5	732.1	634.2	543.1	546.2	520.2
72.5°	3445.6	2510.0	478.9	442.2	418.5	525.5	700.7	603.6	514.1	496.5	470.5
75°	1688.4	1251.6	417.7	407.7	366.4	457.5	657.9	574.5	482.7	455.1	440.7
77.5°	654.0	532.4	356.5	364.2	319.0	403.2	601.3	533.2	441.4	403.9	392.4
80°	317.5	302.2	292.2	303.7	262.4	343.5	549.3	497.3	403.2	361.9	345.1
82.5°	197.4	186.7	224.1	236.4	201.9	313.7	521.0	466.7	355.0	299.9	286.1
85°	100.2	107.1	150.0	161.4	144.6	249.4	429.2	350.4	256.3	212.7	214.2
87.5°	38.3	51.2	78.8	84.9	77.3	131.6	236.4	204.3	164.5	111.7	103.3
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)