

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: P650815

Luminaire Tested: **GALN-SA3C-840-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-840-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17751 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

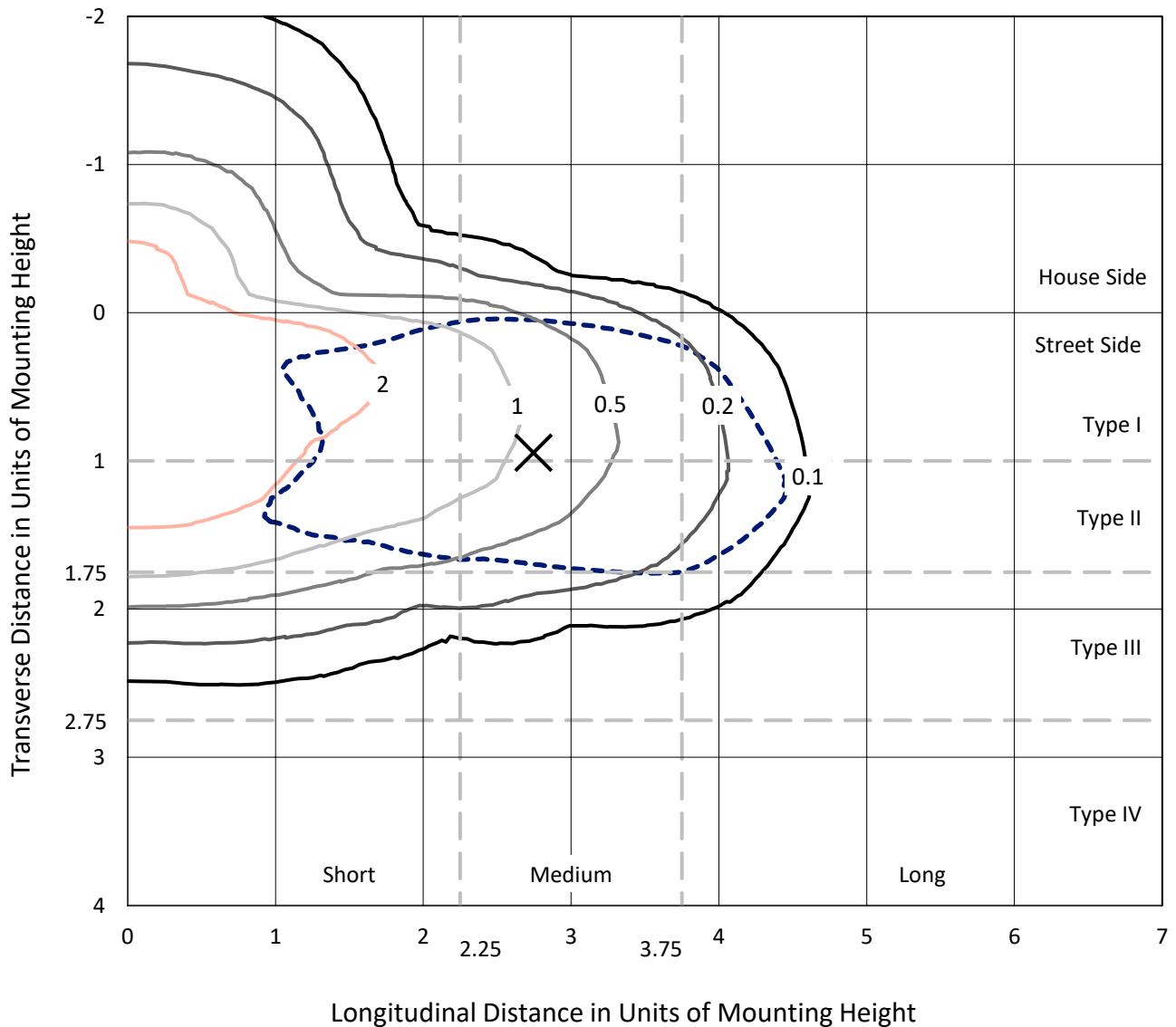
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

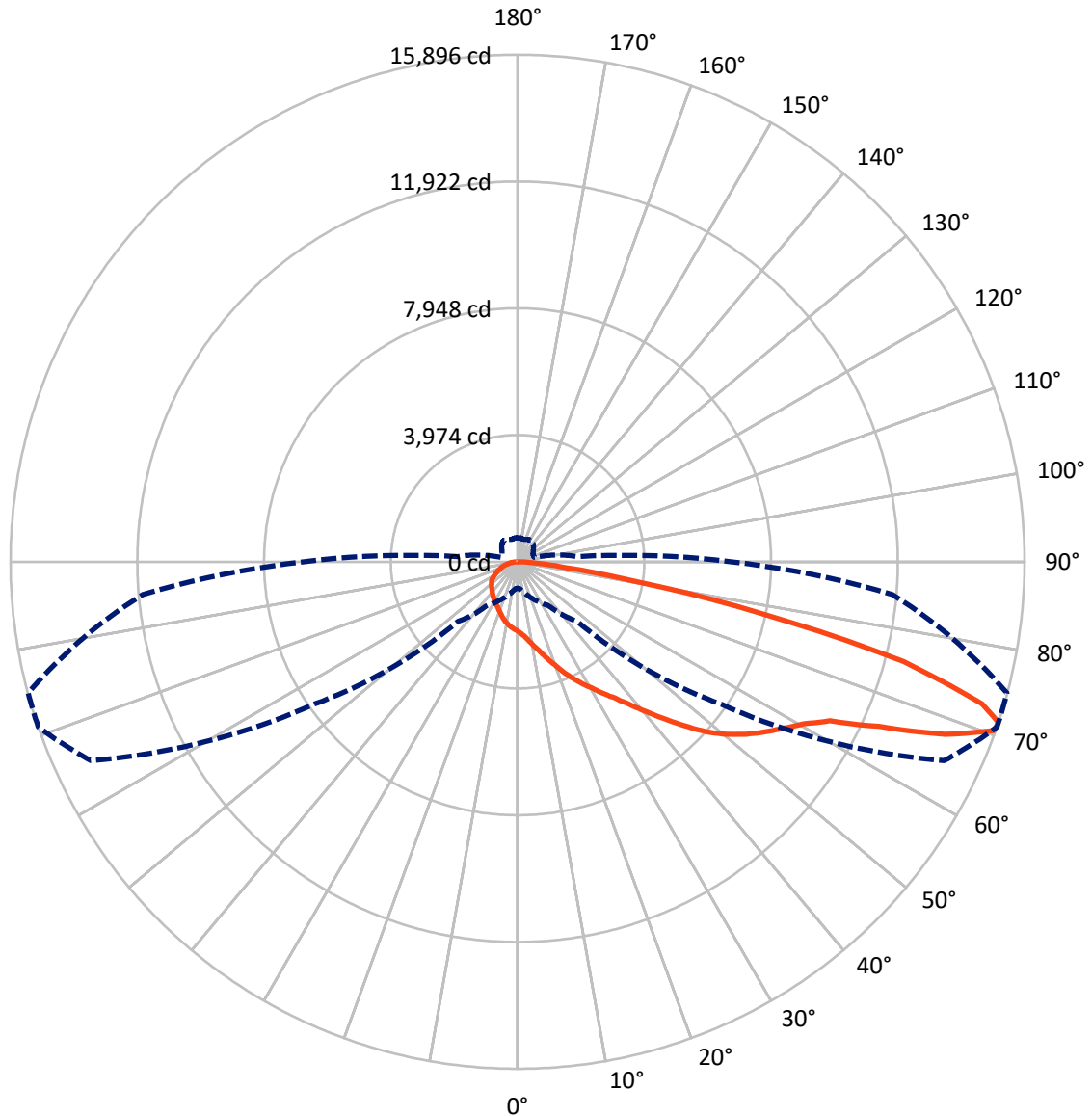
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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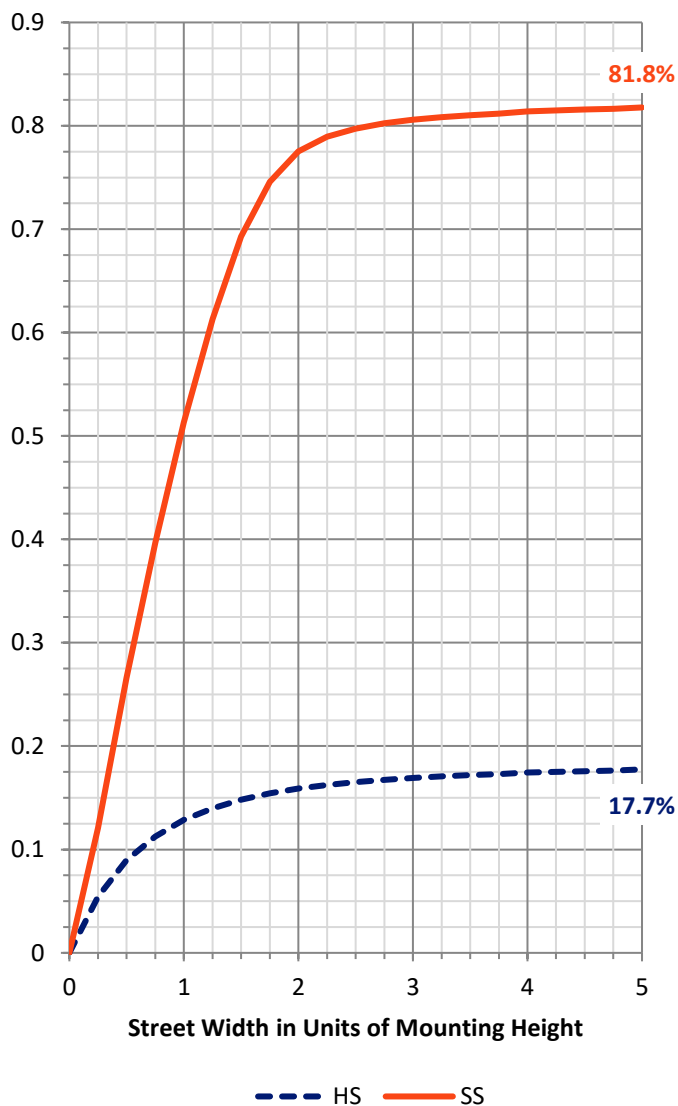
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3192.5	0.0	3192.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	14558.5	0.0	14558.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	17751.0	0.0	17751.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.7	1.2
10°-20°	710.7	4.0
20°-30°	1242.0	7.0
30°-40°	1847.3	10.4
40°-50°	2721.7	15.3
50°-60°	3810.5	21.5
60°-70°	4261.9	24.0
70°-80°	2603.3	14.7
80°-90°	334.9	1.9
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°	17751.0	100.0
0°-180°	17751.0	100.0

Coefficient of Utilization

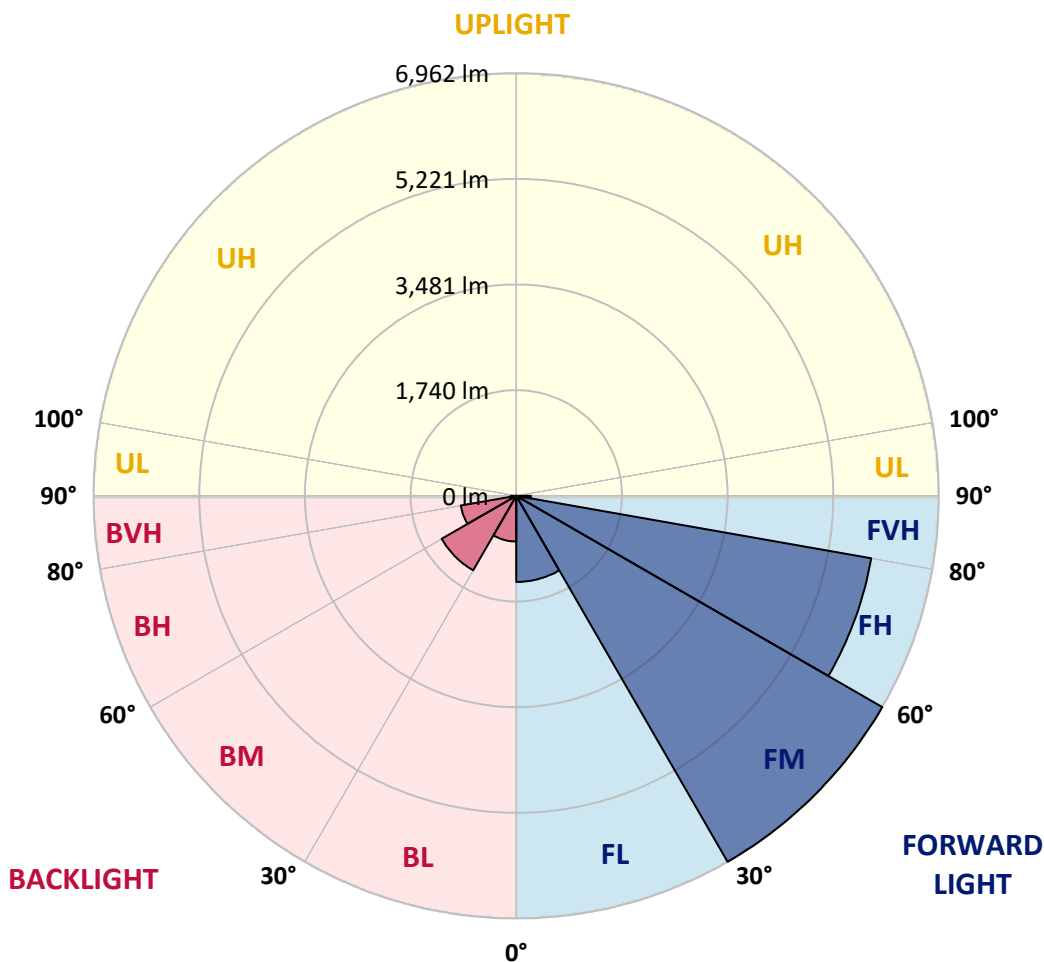


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.3	8.0			
FM (30°-60°)	6961.6	39.2			
FH (60°-80°)	5937.7	33.4			G3/7500
FVH (80°-90°)	241.0	1.4			G3/500
BL (0°-30°)	753.1	4.2	B2/1000		
BM (30°-60°)	1417.9	8.0	B2/2500		
BH (60°-80°)	927.5	5.2	B2/1000		G2/1000
BVH (80°-90°)	93.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6
2.5°	2418.5	2406.9	2407.9	2391.3	2369.8	2346.4	2313.3	2284.0	2260.5	2246.9	2206.9
5°	2680.1	2668.3	2653.7	2617.6	2602.0	2544.4	2471.3	2404.9	2354.2	2325.9	2245.9
7.5°	2891.8	2888.8	2885.0	2864.4	2824.4	2744.4	2682.0	2566.9	2491.8	2438.1	2301.5
10°	3022.5	3027.3	3030.3	3034.2	3017.6	2975.7	2889.8	2744.4	2648.8	2580.5	2373.7
12.5°	3088.8	3093.7	3110.3	3146.4	3168.9	3164.0	3093.7	2951.3	2819.5	2729.8	2450.8
15°	3129.8	3137.6	3166.9	3214.7	3289.8	3337.6	3303.4	3171.7	3027.3	2921.0	2542.5
17.5°	3174.7	3183.5	3215.6	3283.9	3382.5	3485.9	3523.0	3409.8	3252.7	3125.9	2644.9
20°	3200.1	3211.8	3257.6	3347.3	3462.5	3612.8	3735.7	3676.2	3504.4	3364.0	2763.0
22.5°	3241.0	3250.8	3289.8	3385.4	3523.0	3711.3	3948.4	3935.7	3784.5	3603.0	2892.7
25°	3352.2	3367.9	3387.4	3445.0	3577.6	3811.7	4124.9	4212.7	4055.7	3852.8	3011.8
27.5°	3562.1	3574.7	3573.7	3581.6	3656.7	3898.6	4278.2	4486.9	4325.0	4105.4	3126.9
30°	3801.1	3805.9	3809.8	3792.2	3808.9	3987.4	4418.6	4758.1	4596.2	4365.0	3227.4
32.5°	4091.8	4101.6	4068.4	4023.5	4009.8	4119.1	4534.8	5029.3	4917.2	4628.4	3326.9
35°	4435.2	4460.6	4393.3	4314.2	4258.7	4308.4	4690.8	5306.5	5246.0	4965.0	3458.6
37.5°	4827.4	4858.6	4796.2	4641.1	4562.1	4575.7	4894.7	5648.9	5661.6	5348.4	3654.7
40°	5148.4	5189.4	5191.3	4971.8	4851.8	4867.5	5153.3	6017.7	6163.1	5822.6	3885.9
42.5°	5360.1	5400.1	5442.0	5313.3	5187.5	5276.2	5454.7	6417.7	6727.0	6398.2	4208.9
45°	5592.3	5628.4	5651.9	5593.3	5523.0	5753.3	5818.6	6843.0	7328.0	7041.1	4562.1
47.5°	5861.6	5901.5	5924.0	5868.4	5842.1	6171.8	6210.9	7240.2	7969.9	7665.5	4952.3
50°	6220.6	6250.9	6239.1	6204.1	6198.2	6492.9	6587.5	7611.9	8499.7	8337.8	5357.2
52.5°	6667.4	6703.5	6716.2	6666.5	6644.1	6722.1	6890.9	7950.4	8981.6	8915.3	5789.4
55°	6937.7	6995.3	7188.4	7266.5	7320.1	7018.6	7217.7	8324.0	9413.9	9524.1	6253.8
57.5°	6591.3	6665.5	7097.7	7487.9	7992.4	7760.2	7681.1	8714.4	9846.1	10114.4	6809.9
60°	5746.5	5763.0	6320.1	7039.2	8053.8	8713.3	8648.0	9334.8	10314.4	10709.5	7542.6
62.5°	3986.4	4021.6	4680.1	5827.5	7294.7	9056.8	10292.9	10406.1	10985.6	11600.2	8616.8
65°	2055.7	2009.8	2609.8	3662.6	5499.6	8241.1	11625.6	12375.9	12441.2	12993.4	10129.0
67.5°	1265.4	1285.9	1566.9	2138.6	3251.8	5989.4	11486.1	14782.8	14438.4	14703.7	11533.0
70°	950.2	975.6	1168.8	1463.4	1982.5	3424.5	9237.3	15366.2	15847.1	15778.8	11960.3
71°	826.4	852.7	1053.7	1331.7	1665.4	2643.0	7782.6	14755.4	15896.0	15884.2	11799.3
72.5°	704.4	721.0	878.1	1127.9	1404.0	1852.7	5847.0	13233.5	15217.9	15607.2	11224.7
75°	553.2	565.8	636.1	860.5	1105.4	1137.6	3137.6	9921.2	12498.8	13240.3	9344.6
77.5°	450.8	459.5	495.6	639.1	852.7	805.8	1645.9	6457.7	7830.4	8576.8	5504.5
80°	358.1	367.9	389.3	433.2	639.1	574.7	785.4	3272.2	3782.5	3774.7	2197.1
82.5°	278.0	281.0	306.4	318.1	437.1	407.8	425.4	1385.4	1534.7	1585.4	793.1
85°	175.6	184.4	271.2	243.9	261.5	239.0	209.7	550.3	678.1	668.3	317.1
87.5°	53.7	56.6	91.7	103.4	116.1	104.4	77.0	162.0	198.1	214.6	79.1
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°	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6
2.5°	2191.2	2180.5	2142.4	2111.2	2082.0	2049.8	2022.5	2014.7	2007.9	2004.9	2003.9
5°	2211.7	2179.5	2104.4	2043.0	1994.2	1949.3	1921.0	1908.3	1895.6	1895.6	1899.6
7.5°	2241.0	2182.5	2066.4	1974.7	1913.2	1871.2	1850.8	1848.9	1851.7	1854.7	1855.7
10°	2273.2	2180.5	2010.7	1896.6	1842.0	1822.4	1823.5	1840.0	1855.7	1867.4	1869.3
12.5°	2304.4	2168.9	1945.4	1823.5	1788.3	1792.3	1819.6	1856.6	1886.9	1903.4	1904.4
15°	2339.6	2150.3	1866.3	1754.2	1742.5	1772.7	1823.5	1880.1	1925.9	1953.2	1956.2
17.5°	2368.8	2119.1	1783.4	1686.9	1701.5	1757.1	1827.3	1900.5	1956.2	1990.3	1996.1
20°	2402.0	2079.0	1697.6	1622.5	1664.4	1739.5	1819.6	1898.6	1956.2	1989.3	1997.1
22.5°	2428.3	2022.5	1615.6	1569.8	1631.3	1718.1	1793.2	1856.6	1903.4	1921.0	1932.7
25°	2439.1	1951.3	1538.6	1526.8	1604.9	1682.9	1733.7	1769.8	1784.4	1782.5	1787.4
27.5°	2433.2	1869.3	1472.3	1492.7	1571.7	1628.3	1653.7	1650.8	1624.4	1600.0	1611.8
30°	2408.8	1771.7	1416.6	1457.6	1528.9	1560.1	1556.1	1518.1	1468.3	1422.5	1425.4
32.5°	2364.9	1666.4	1364.9	1417.6	1468.3	1482.0	1455.6	1405.9	1334.7	1275.1	1266.4
35°	2327.9	1565.9	1319.0	1371.8	1407.8	1401.0	1375.6	1311.3	1246.9	1194.1	1185.4
37.5°	2322.0	1480.0	1275.1	1320.0	1340.6	1330.8	1299.5	1244.9	1221.5	1181.5	1176.6
40°	2353.2	1419.5	1230.3	1265.4	1275.1	1267.3	1233.2	1202.0	1223.4	1213.6	1213.6
42.5°	2438.1	1387.3	1190.3	1210.8	1218.5	1224.4	1200.0	1173.7	1200.0	1155.1	1140.5
45°	2572.7	1388.3	1154.2	1157.1	1180.5	1201.0	1184.4	1145.4	1131.7	1042.0	1024.4
47.5°	2770.8	1421.5	1124.9	1106.3	1148.3	1182.4	1159.1	1102.5	1042.0	982.5	971.7
50°	3002.0	1481.0	1098.6	1053.7	1105.4	1159.1	1141.5	1075.1	1012.7	976.6	969.8
52.5°	3258.6	1556.1	1066.4	995.2	1052.7	1148.3	1145.4	1071.3	985.4	961.0	955.1
55°	3575.7	1630.3	1026.4	926.9	1005.8	1139.6	1134.7	1039.1	979.5	961.9	960.0
57.5°	3944.5	1737.6	968.8	857.6	952.2	1103.5	1092.7	1019.5	960.0	947.3	946.4
60°	4538.6	1904.4	886.8	794.2	897.6	1040.0	1053.7	986.3	928.8	925.9	924.9
62.5°	5320.1	2138.6	802.0	728.8	834.2	958.1	997.1	941.5	895.7	910.3	912.2
65°	6399.2	2335.6	714.2	673.2	763.9	879.0	943.4	899.5	858.6	886.8	886.8
67.5°	7102.6	2339.6	634.2	615.6	692.7	812.7	886.8	849.7	810.7	858.6	860.5
70°	6956.2	2049.8	567.8	555.1	623.4	741.5	824.4	795.2	750.3	793.1	777.6
71°	6720.2	1888.8	541.4	531.7	596.1	707.4	795.2	770.8	725.9	754.1	745.4
72.5°	6343.6	1640.0	498.5	500.5	555.1	664.4	754.1	728.8	683.9	699.5	696.6
75°	5362.0	1432.2	426.4	435.1	477.1	591.2	672.2	652.7	606.9	606.9	603.9
77.5°	3352.2	1001.0	354.1	359.0	404.9	506.4	577.6	560.9	517.0	502.4	498.5
80°	1250.7	517.0	277.1	282.9	311.3	399.1	478.0	462.5	417.6	401.0	385.3
82.5°	473.1	259.5	203.9	199.1	229.3	304.4	374.7	356.1	321.0	281.0	269.3
85°	178.5	128.8	124.9	121.0	134.6	180.5	232.2	228.3	191.2	162.9	160.0
87.5°	46.8	42.0	48.8	36.1	38.0	34.1	35.2	14.6	6.8	2.9	1.9
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)