

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: P383009

Luminaire Tested: **GLEON-SA3C-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20957 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

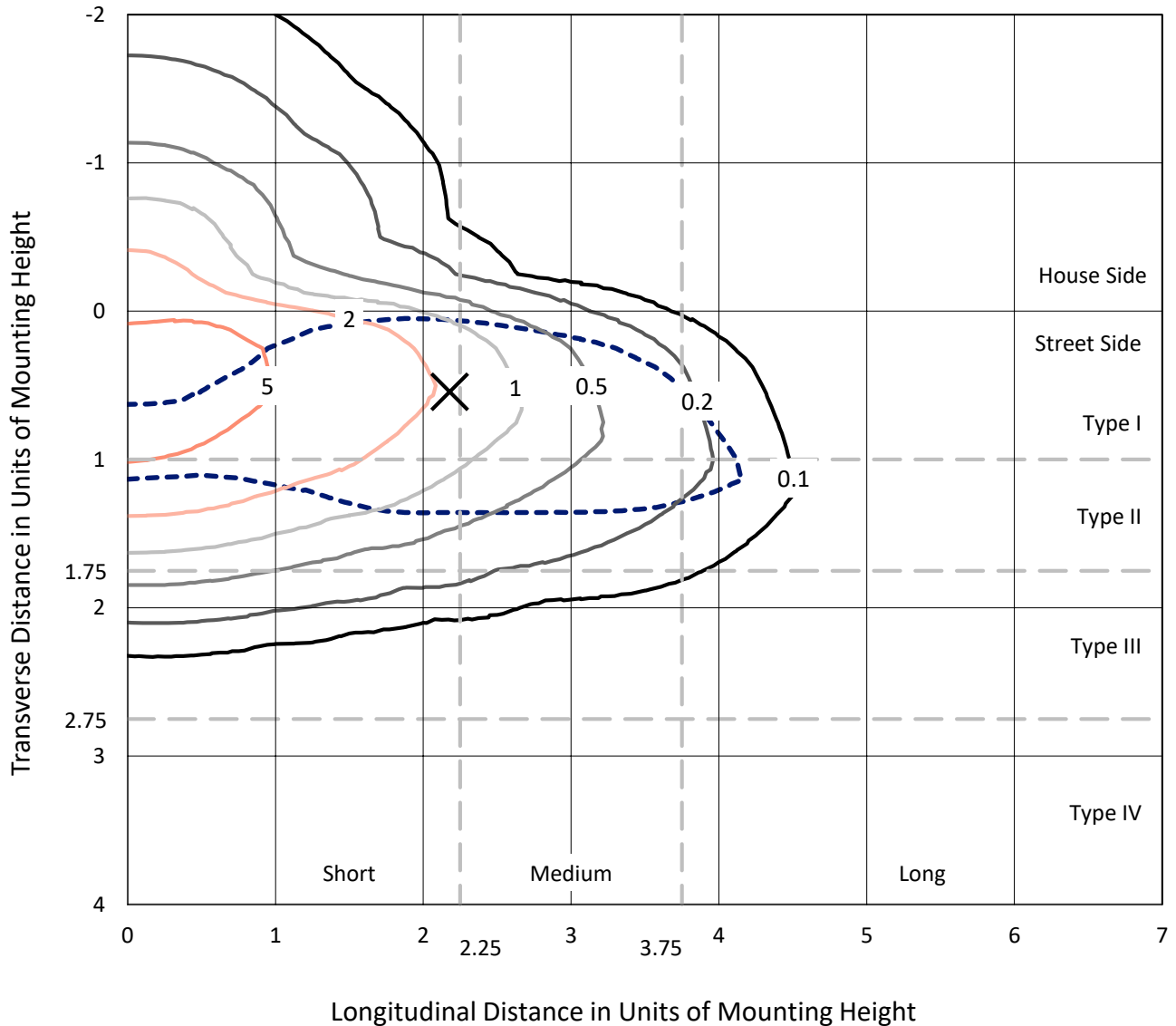
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

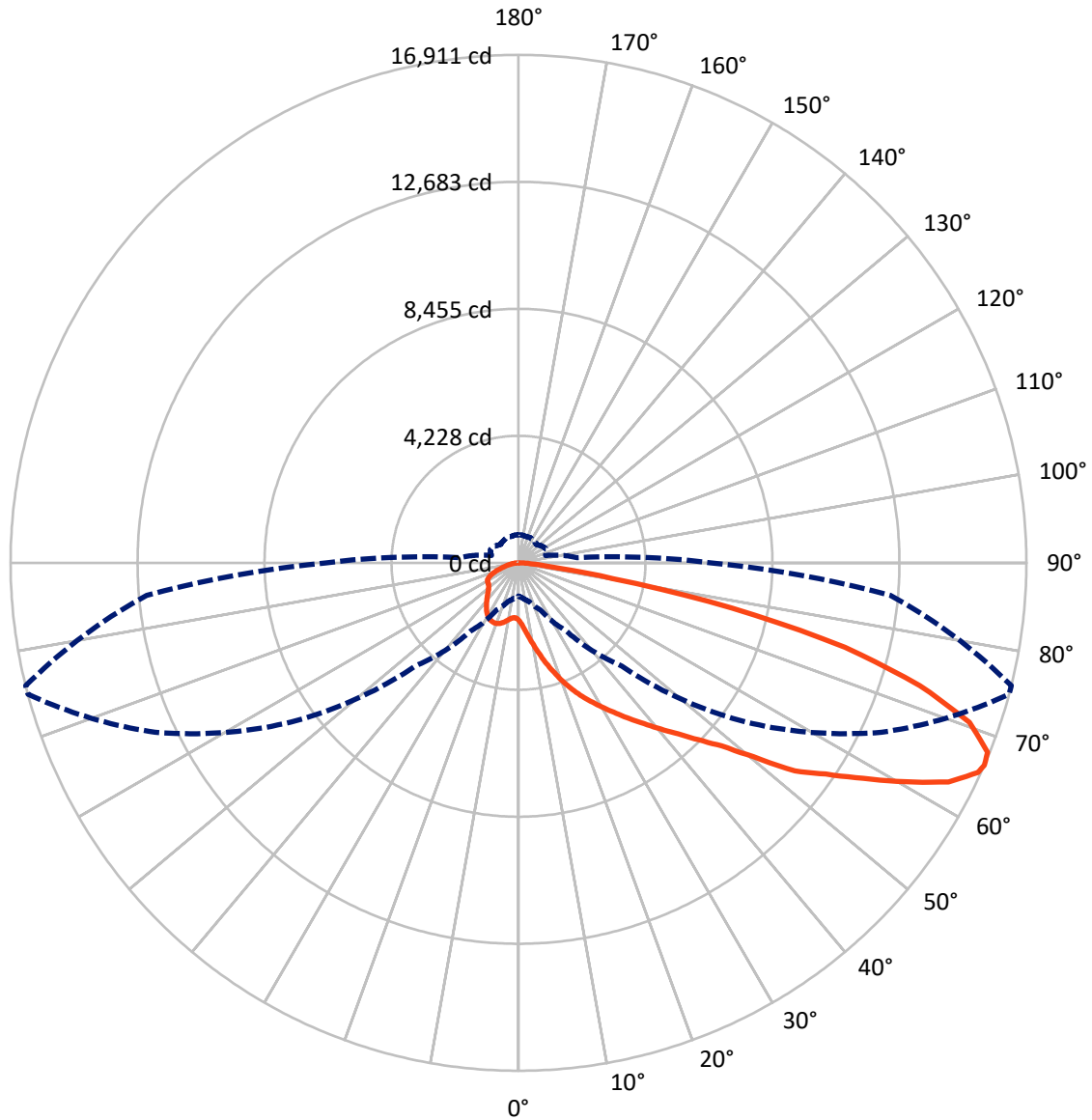
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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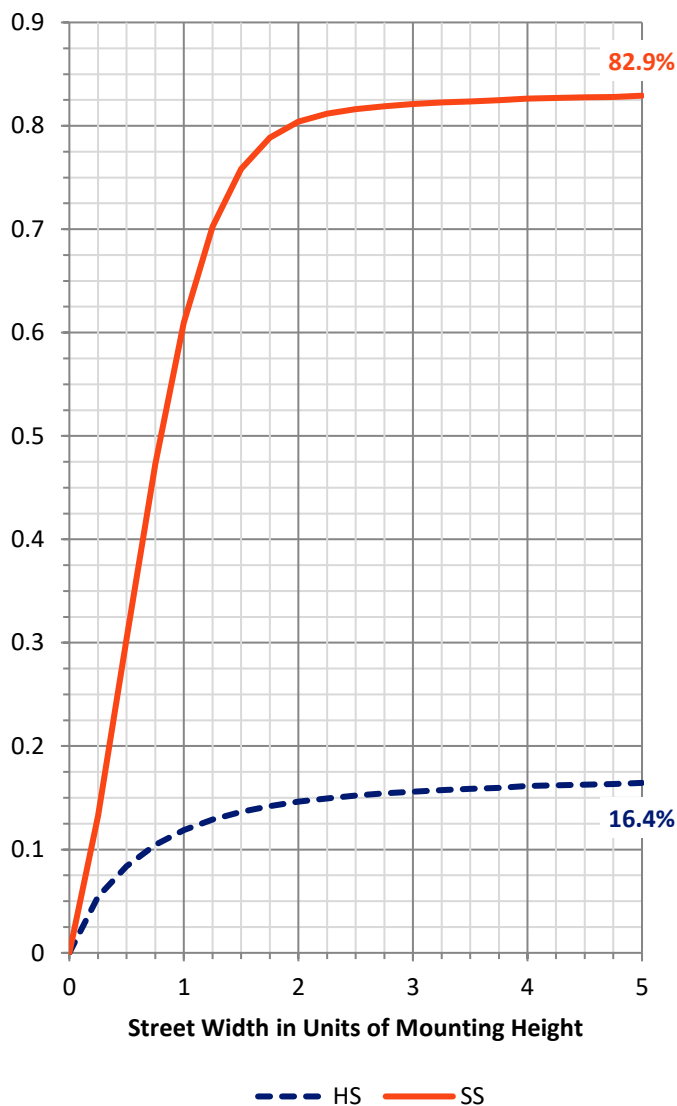
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3526.4	0.0	3526.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	17430.7	0.0	17430.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	20957.0	0.0	20957.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.4	1.1
10°-20°	913.9	4.4
20°-30°	1776.0	8.5
30°-40°	2898.8	13.8
40°-50°	3960.5	18.9
50°-60°	4613.1	22.0
60°-70°	4135.8	19.7
70°-80°	2090.0	10.0
80°-90°	337.5	1.6
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°	20957.0	100.0
0°-180°	20957.0	100.0

Coefficient of Utilization

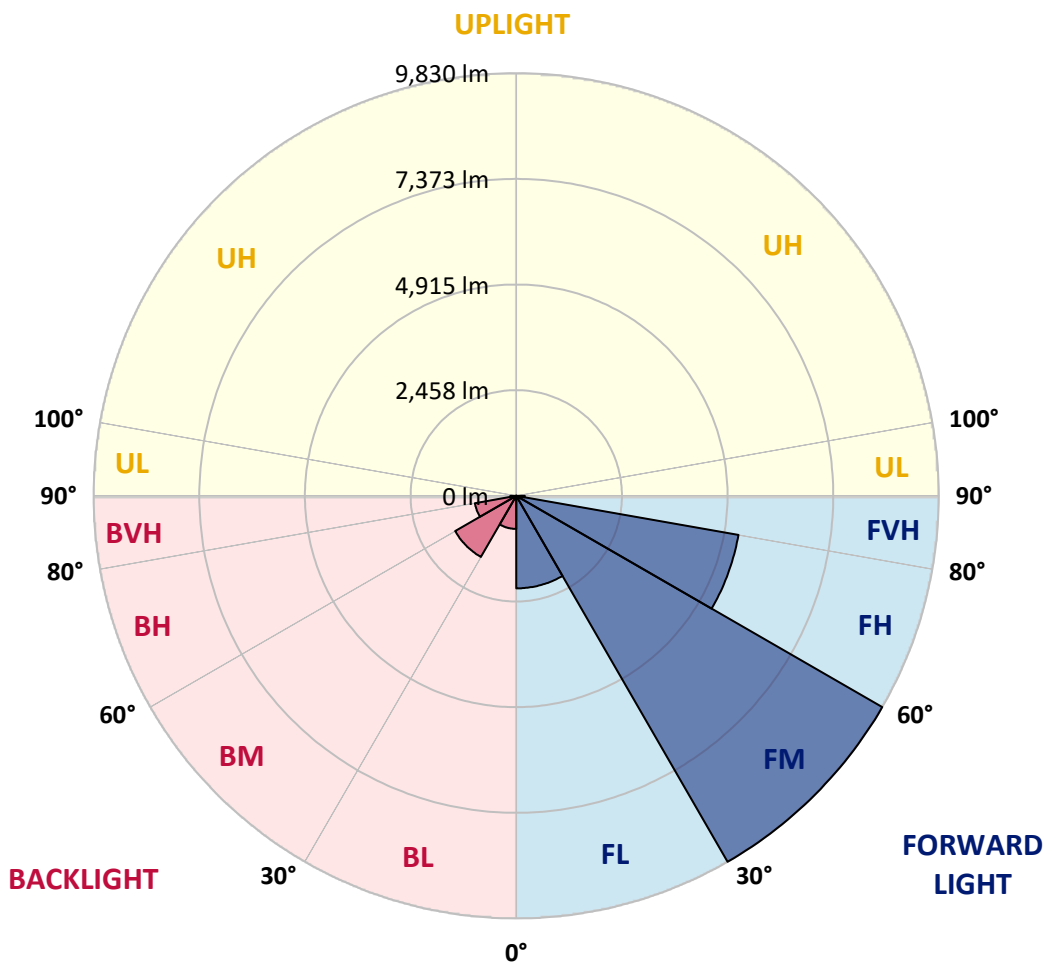


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2152.2	10.3			
FM (30°-60°)	9830.3	46.9			
FH (60°-80°)	5248.8	25.0			G3/7500
FVH (80°-90°)	199.3	1.0			G2/225
BL (0°-30°)	769.1	3.7	B2/1000		
BM (30°-60°)	1642.1	7.8	B2/2500		
BH (60°-80°)	977.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	138.2	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9
2.5°	2540.6	2502.2	2498.7	2442.4	2429.7	2322.3	2243.3	2160.7	2066.8	2048.3	1974.3
5°	3263.5	3260.0	3210.9	3119.1	3047.2	2863.7	2682.2	2490.1	2279.6	2245.4	2078.9
7.5°	3913.8	3908.1	3870.4	3771.5	3667.6	3442.1	3183.1	2888.5	2547.0	2496.5	2220.5
10°	4407.5	4405.4	4392.6	4320.1	4231.8	4015.5	3729.5	3327.6	2858.0	2789.0	2397.6
12.5°	4788.9	4793.2	4801.7	4776.0	4734.1	4549.9	4256.7	3792.8	3189.5	3121.2	2594.7
15°	5047.1	5060.0	5104.0	5140.4	5162.5	5049.3	4765.4	4268.8	3560.9	3479.1	2813.2
17.5°	5177.4	5191.6	5267.7	5377.3	5478.3	5466.9	5241.4	4722.8	3917.3	3838.3	3047.9
20°	5289.8	5300.4	5385.8	5517.5	5696.0	5774.9	5648.3	5159.6	4307.9	4214.0	3296.9
22.5°	5615.6	5629.2	5654.8	5729.5	5887.4	6032.5	5971.3	5572.9	4665.8	4578.3	3533.2
25°	6244.5	6260.9	6205.4	6142.1	6172.0	6273.0	6284.4	5950.0	5028.7	4929.7	3787.1
27.5°	7002.3	7025.7	6931.1	6768.2	6625.9	6586.8	6573.3	6258.8	5375.1	5260.6	4038.3
30°	7744.3	7784.9	7661.8	7450.5	7189.4	7005.8	6870.0	6561.2	5716.6	5607.1	4275.2
32.5°	8469.4	8453.0	8274.4	8068.0	7762.1	7532.3	7203.7	6885.6	6100.8	5974.9	4510.7
35°	8966.0	8971.6	8805.8	8561.1	8269.3	8092.9	7650.4	7235.6	6492.9	6376.9	4778.2
37.5°	9388.5	9362.2	9174.3	8946.0	8694.9	8619.4	8173.3	7621.3	6917.6	6791.0	5062.8
40°	9529.4	9498.8	9375.7	9211.4	9010.0	9003.6	8750.3	8058.1	7397.9	7272.6	5383.7
42.5°	9444.0	9404.9	9354.4	9309.5	9247.7	9276.2	9292.5	8570.3	7925.8	7785.6	5755.1
45°	9128.9	9069.8	9105.4	9202.9	9337.3	9498.1	9782.0	9137.4	8517.0	8399.6	6191.2
47.5°	8644.3	8591.0	8702.0	8910.4	9276.2	9683.1	10245.2	9763.5	9222.8	9106.1	6812.3
50°	7962.8	7978.4	8137.1	8516.3	9069.1	9768.5	10815.7	10592.3	10248.7	10139.8	7659.7
52.5°	6844.4	6847.2	7293.9	7916.5	8702.0	9724.3	11132.4	11651.7	11649.6	11517.9	8466.5
55°	5805.6	5868.9	6222.5	7050.0	8107.2	9547.9	11353.6	12166.9	12569.5	12415.1	9218.5
57.5°	4791.0	4828.0	5163.1	5994.1	7258.4	9077.7	11580.5	12785.1	13629.6	13532.1	10153.4
60°	3637.0	3694.0	4040.4	4808.1	6172.7	8243.1	11601.9	13430.4	14896.8	14798.6	11197.1
62.5°	2360.6	2458.8	2783.3	3502.5	4859.3	7042.8	11106.7	13852.3	16097.7	16062.9	12123.4
65°	1356.8	1430.8	1656.3	2211.2	3352.5	5535.9	9929.3	13690.0	16836.9	16816.9	12469.9
66°	1108.4	1154.7	1327.6	1728.1	2766.2	4861.5	9244.8	13347.9	16910.2	16910.8	12430.1
67.5°	886.5	907.1	984.6	1237.3	2041.2	3853.3	8021.8	12592.9	16819.1	16844.0	12173.2
70°	733.5	744.2	768.3	829.5	1114.1	2323.7	5693.9	10631.5	15904.9	15924.1	11170.7
72.5°	658.1	664.5	673.8	682.3	786.1	1298.4	3477.7	8504.8	13944.8	13969.7	9643.2
75°	596.2	599.7	598.3	599.1	659.5	827.4	1797.1	6349.9	11275.4	11225.5	7387.2
77.5°	523.6	527.2	520.1	521.5	583.4	636.1	894.3	4445.3	7609.2	7257.7	4162.1
80°	442.6	445.4	442.6	447.5	508.0	480.2	520.1	2500.8	3364.6	3182.4	1479.9
82.5°	334.4	346.4	355.0	374.9	418.4	341.5	347.9	974.0	1024.5	975.4	453.9
85°	146.5	178.6	267.5	286.7	314.5	204.9	228.4	397.0	417.0	404.1	165.1
87.5°	38.4	42.0	132.4	166.5	174.3	92.5	118.8	180.7	190.7	180.7	54.8
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°	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9	1913.9
2.5°	1935.2	1900.4	1837.8	1782.2	1740.2	1711.8	1683.3	1669.1	1660.6	1652.0	1653.5
5°	1997.1	1926.6	1819.2	1743.1	1700.4	1673.3	1659.2	1653.5	1649.9	1641.4	1641.4
7.5°	2090.3	1990.7	1842.7	1764.4	1731.0	1710.4	1701.8	1699.0	1694.7	1684.8	1686.2
10°	2207.7	2068.2	1891.8	1815.7	1785.0	1762.3	1750.2	1745.9	1738.1	1726.7	1728.1
12.5°	2345.7	2164.3	1956.5	1876.9	1839.9	1809.3	1789.3	1777.2	1763.7	1748.8	1749.5
15°	2496.5	2268.9	2026.3	1931.7	1881.2	1838.4	1806.5	1785.8	1764.4	1745.9	1745.3
17.5°	2649.5	2369.9	2079.6	1961.6	1893.2	1837.0	1793.6	1761.6	1735.3	1712.5	1710.4
20°	2814.6	2461.0	2109.5	1958.7	1870.5	1803.6	1745.9	1706.1	1677.0	1654.1	1650.6
22.5°	2982.4	2546.4	2114.5	1929.5	1820.0	1738.1	1677.6	1633.6	1603.7	1580.2	1571.6
25°	3136.1	2612.5	2093.8	1873.2	1749.5	1661.3	1602.3	1557.4	1533.2	1505.5	1496.9
27.5°	3276.3	2658.7	2052.6	1801.4	1670.5	1583.7	1528.2	1489.8	1463.5	1442.1	1435.0
30°	3402.2	2683.7	1985.0	1716.1	1589.4	1510.4	1463.5	1437.2	1414.4	1387.4	1382.4
32.5°	3521.8	2683.7	1898.2	1622.8	1509.0	1445.7	1418.0	1401.6	1376.0	1349.6	1342.5
35°	3641.3	2667.3	1795.7	1525.4	1435.0	1399.5	1398.1	1378.8	1339.7	1304.2	1294.9
37.5°	3767.2	2633.9	1680.5	1434.3	1374.6	1378.8	1390.9	1348.2	1292.7	1242.2	1228.7
40°	3909.5	2587.7	1561.0	1355.3	1324.0	1369.6	1371.7	1304.2	1196.0	1149.7	1137.6
42.5°	4076.7	2541.4	1450.0	1285.6	1284.2	1341.8	1335.5	1208.8	1144.0	1120.6	1114.1
45°	4296.6	2515.1	1344.7	1219.5	1252.9	1297.0	1273.5	1156.1	1129.1	1115.6	1109.8
47.5°	4643.0	2528.6	1247.9	1166.8	1221.6	1252.2	1158.3	1134.8	1115.6	1099.2	1093.5
50°	5077.0	2520.8	1169.7	1130.5	1186.0	1205.2	1106.3	1107.1	1097.1	1078.5	1070.1
52.5°	5403.6	2459.6	1119.2	1109.8	1154.7	1122.0	1073.6	1080.0	1075.0	1048.0	1038.8
55°	5718.8	2406.9	1093.5	1102.0	1131.9	1018.1	1035.2	1050.9	1045.8	1019.6	1015.3
57.5°	6110.8	2397.0	1077.9	1104.2	1112.7	966.2	998.2	1018.8	1015.3	1003.8	1001.8
60°	6591.1	2399.8	1063.6	1107.8	1091.4	927.7	963.3	989.7	991.8	989.7	988.2
62.5°	6855.0	2322.3	1028.1	1097.8	1053.7	894.3	927.1	965.5	966.2	970.5	969.7
65°	6630.8	2090.3	961.9	1062.9	990.3	866.5	895.8	937.7	927.1	946.3	946.3
66°	6413.1	1956.5	929.2	1040.2	963.3	855.9	885.8	923.4	909.9	936.3	936.3
67.5°	5968.5	1731.0	870.2	991.8	924.9	841.0	874.4	900.0	881.5	920.6	917.8
70°	5156.0	1339.0	751.3	882.2	861.6	818.9	858.7	853.0	826.0	885.8	874.4
72.5°	4347.1	1017.4	603.4	738.5	765.5	791.2	836.7	793.3	759.1	801.1	776.2
75°	3373.0	764.8	476.7	574.1	646.7	747.8	810.4	724.3	675.2	670.9	657.4
77.5°	1823.5	525.0	377.8	438.3	513.7	693.7	792.6	650.3	576.3	559.2	548.6
80°	722.1	341.5	274.6	332.3	359.3	615.4	749.9	564.2	475.3	458.2	441.8
82.5°	298.1	202.1	177.2	222.7	234.1	526.5	673.0	462.4	367.1	508.0	539.3
85°	128.1	110.9	105.3	115.2	132.4	369.3	535.7	352.9	396.3	353.6	281.0
87.5°	38.4	46.9	44.8	44.2	48.3	88.2	285.3	196.4	291.0	110.3	82.5
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)