

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: P939229

Luminaire Tested: **GALN-SB1D-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-722-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8311 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 79.6
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



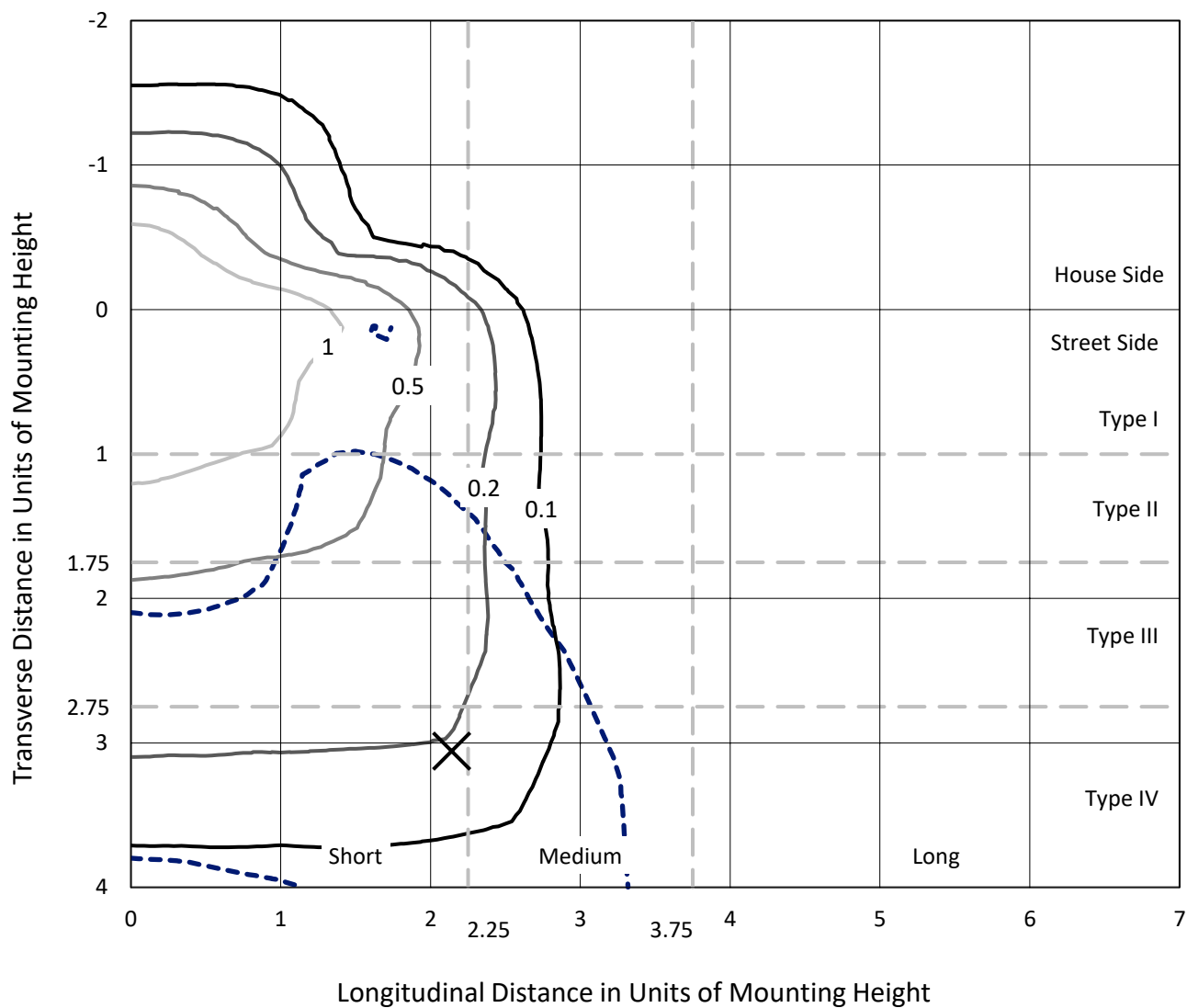
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



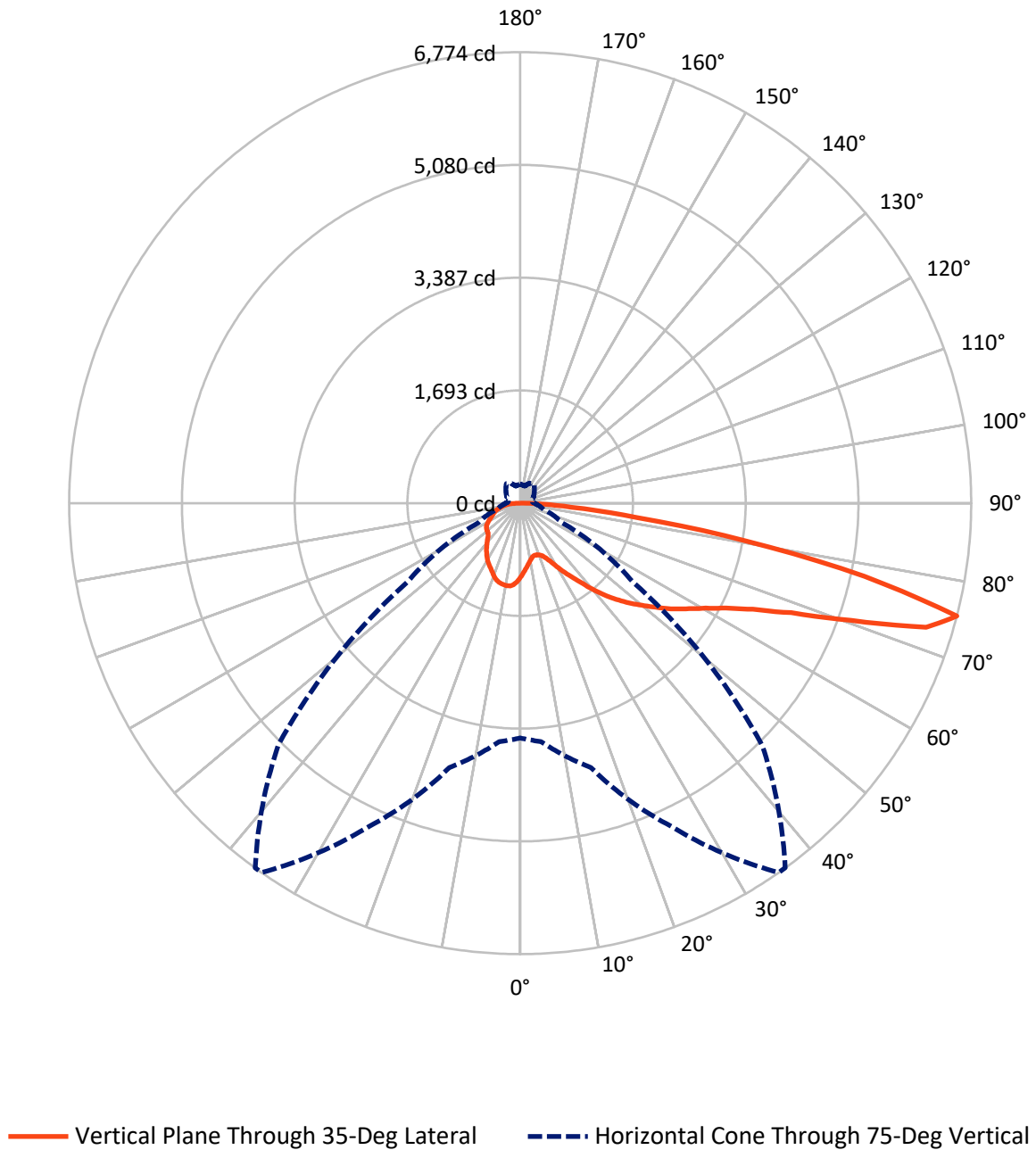
Based on 25 foot mounting height. Maximum calculated value = 2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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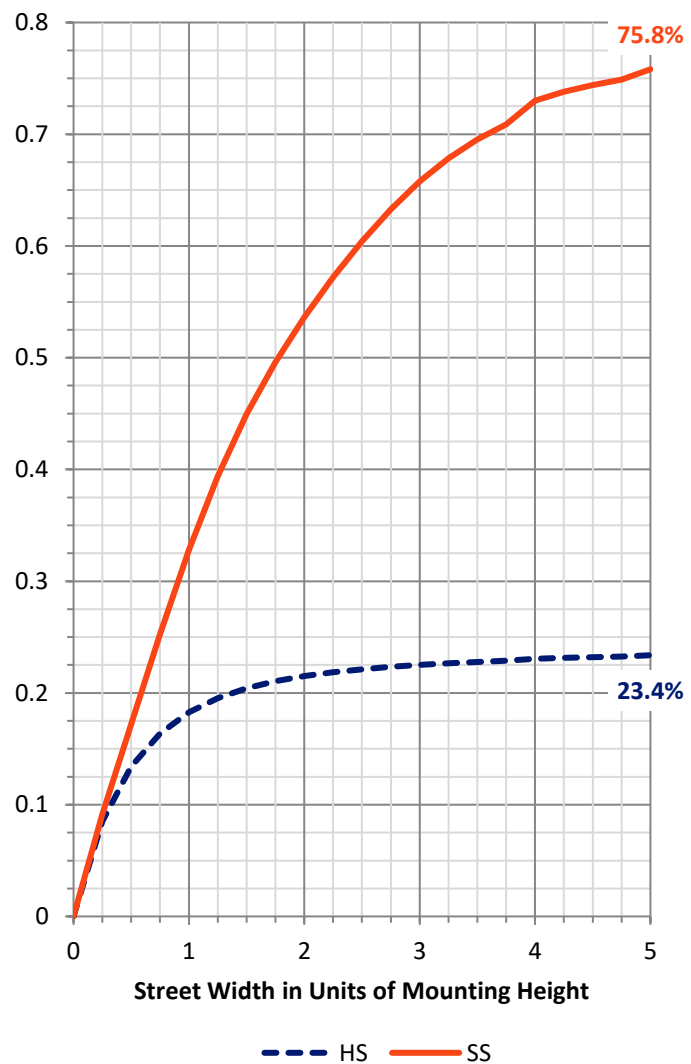
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1977.8	0.0	1977.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	6333.2	0.0	6333.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	8311.0	0.0	8311.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	1.3
10°-20°	302.5	3.6
20°-30°	507.9	6.1
30°-40°	789.3	9.5
40°-50°	1171.6	14.1
50°-60°	1617.5	19.5
60°-70°	1962.4	23.6
70°-80°	1621.7	19.5
80°-90°	233.3	2.8
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°	8311.0	100.0
0°-180°	8311.0	100.0

Coefficient of Utilization



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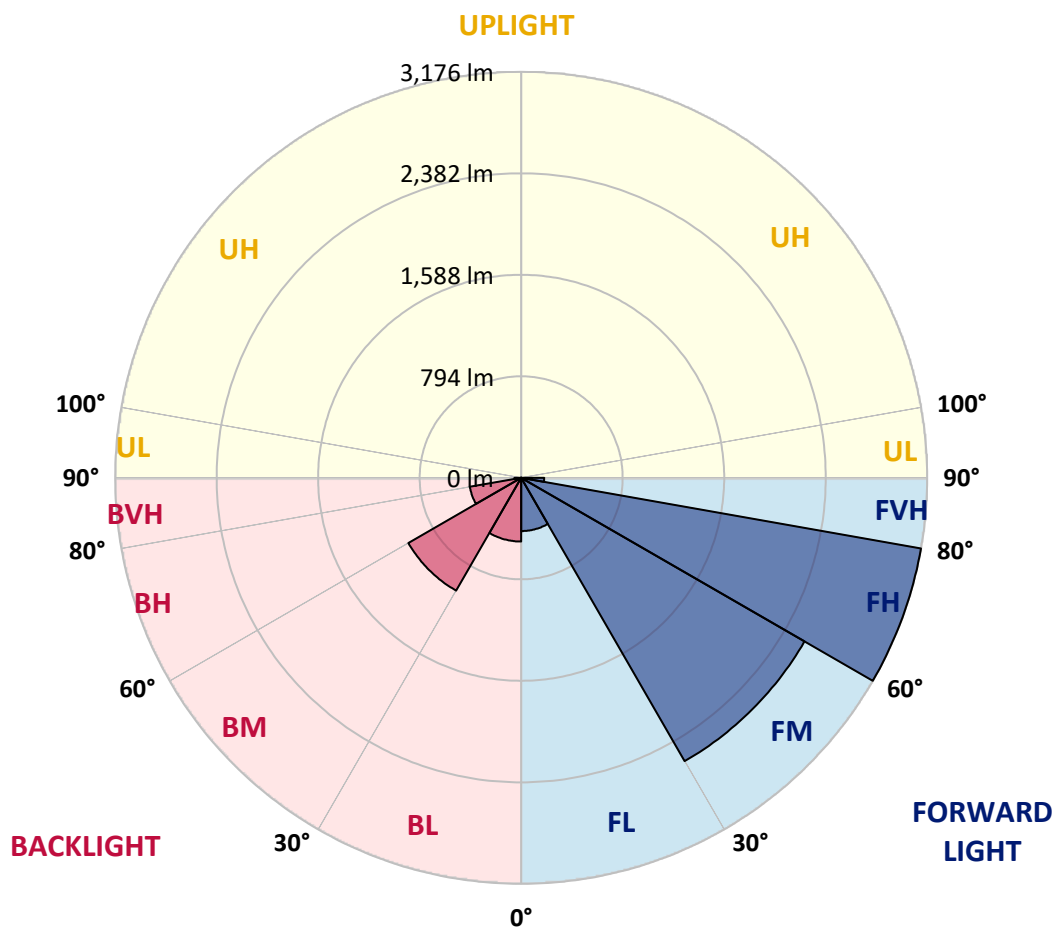
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	416.8	5.0			
FM	(30°-60°)	2559.3	30.8			
FH	(60°-80°)	3176.3	38.2			G2/5000
FVH	(80°-90°)	180.7	2.2			G2/225
BL	(0°-30°)	498.4	6.0	B1/500		
BM	(30°-60°)	1019.1	12.3	B2/2500		
BH	(60°-80°)	407.8	4.9	B1/500		G1/500
BVH	(80°-90°)	52.5	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1107.5	1107.5	1107.5	1107.5	1107.5	1107.5	1107.5	1107.5	1107.5	1107.5	1107.5
2.5°	1021.2	1027.5	1030.2	1028.9	1035.6	1034.7	1044.1	1055.8	1072.0	1087.7	1110.6
5°	942.6	949.3	955.2	960.6	973.6	977.7	992.5	1014.9	1044.6	1074.7	1112.4
7.5°	869.4	875.2	884.2	894.1	916.1	920.1	944.9	979.9	1021.2	1065.3	1117.4
10°	809.6	815.5	824.9	836.1	863.5	868.5	899.9	946.7	1000.6	1056.3	1122.8
12.5°	784.0	785.8	791.2	802.4	826.2	829.4	864.0	917.4	980.3	1049.5	1130.9
15°	782.7	786.3	786.7	792.5	812.3	813.7	845.6	898.6	967.8	1048.2	1143.0
17.5°	796.1	798.8	794.8	798.4	815.0	817.3	842.4	889.6	963.7	1054.0	1163.7
20°	832.1	834.3	822.2	817.3	829.4	831.2	855.9	895.4	967.8	1066.2	1192.0
22.5°	908.5	909.8	880.2	859.9	860.8	861.7	883.3	919.2	983.5	1088.2	1227.9
25°	1027.5	1026.6	979.4	940.4	917.9	913.0	927.3	957.9	1010.0	1117.4	1274.2
27.5°	1166.8	1160.1	1112.9	1054.5	1005.5	998.3	995.2	1008.2	1047.7	1156.0	1330.8
30°	1324.1	1317.8	1267.0	1190.6	1122.8	1111.1	1081.4	1074.7	1103.9	1208.6	1409.4
32.5°	1496.6	1492.5	1431.9	1339.3	1248.6	1235.1	1185.2	1167.3	1190.2	1288.1	1519.0
35°	1641.3	1637.7	1587.3	1492.1	1381.1	1364.5	1313.7	1293.5	1305.2	1390.1	1662.4
37.5°	1772.0	1770.2	1727.1	1652.0	1537.5	1517.2	1460.2	1453.4	1451.2	1524.4	1836.2
40°	1893.3	1888.8	1843.9	1804.3	1719.4	1701.0	1650.7	1644.8	1627.8	1689.8	2033.0
42.5°	2027.6	2016.0	1950.8	1932.4	1909.5	1894.2	1864.1	1865.0	1827.3	1876.2	2241.5
45°	2137.3	2130.5	2063.6	2052.8	2077.5	2071.2	2097.3	2104.0	2030.8	2071.7	2458.1
47.5°	2255.0	2248.7	2192.1	2184.4	2251.4	2253.2	2345.3	2347.5	2229.4	2274.7	2675.1
50°	2400.1	2391.1	2335.0	2344.4	2419.4	2426.2	2594.6	2579.4	2412.2	2481.0	2890.3
52.5°	2495.8	2501.2	2489.1	2504.3	2606.8	2613.1	2840.0	2800.9	2593.3	2684.5	3101.4
55°	2566.3	2577.1	2614.9	2649.9	2804.5	2810.8	3071.3	3011.6	2743.4	2873.2	3300.0
57.5°	2657.1	2641.8	2712.4	2780.6	2992.3	3008.9	3296.4	3214.7	2876.3	3035.8	3436.2
60°	2787.4	2776.6	2831.4	2932.5	3202.5	3229.0	3534.6	3397.5	2973.8	3164.8	3462.7
62.5°	3051.6	3024.6	3033.1	3122.6	3467.6	3502.7	3803.2	3557.0	3022.4	3215.1	3320.7
65°	3446.5	3400.2	3357.1	3419.1	3841.0	3875.6	4106.5	3682.4	3004.4	3117.6	2943.7
67.5°	3943.9	3898.0	3845.0	3903.4	4390.9	4418.3	4480.8	3752.9	2862.9	2742.0	2277.4
70°	4354.1	4337.0	4400.3	4640.7	5269.3	5270.2	4960.6	3694.5	2475.1	1944.1	1317.8
72.5°	4299.7	4289.4	4623.2	5366.3	6376.3	6352.5	5414.8	3252.4	1667.3	877.0	493.8
75°	3527.4	3594.3	4111.4	5353.3	6773.9	6770.8	5136.7	2067.6	689.7	363.5	255.2
77.5°	1891.5	1997.5	2669.2	3952.4	5288.1	5367.7	3611.4	723.4	296.1	232.7	176.6
80°	616.9	709.4	1063.9	2012.4	3436.2	3421.3	1547.8	284.0	202.6	164.9	122.2
82.5°	261.9	272.7	475.3	950.2	1763.5	1736.1	492.9	163.1	142.4	112.8	75.5
85°	102.4	114.6	209.8	439.4	763.8	747.2	177.9	80.9	91.2	73.7	44.9
87.5°	33.7	40.9	75.0	150.5	237.7	229.1	43.6	27.9	39.5	33.7	16.2
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°	1107.5	1107.5	1107.5	1107.5	1107.5	1107.5	1107.5	1107.5	1107.5	1107.5	1107.5
2.5°	1116.9	1124.1	1132.7	1145.2	1156.0	1165.0	1174.4	1180.3	1182.5	1189.3	1188.8
5°	1125.0	1140.7	1161.9	1182.5	1202.7	1214.9	1225.7	1231.1	1236.0	1239.6	1240.5
7.5°	1138.5	1158.7	1192.0	1218.9	1236.0	1245.9	1253.1	1251.3	1253.1	1254.0	1255.3
10°	1150.2	1178.5	1218.0	1243.6	1256.7	1257.1	1255.3	1249.0	1245.9	1246.3	1247.2
12.5°	1164.1	1195.6	1238.2	1259.8	1263.4	1253.5	1245.9	1235.1	1231.1	1229.3	1228.4
15°	1183.0	1218.9	1260.3	1268.3	1259.4	1246.8	1233.7	1216.2	1207.2	1200.1	1202.3
17.5°	1205.9	1245.4	1277.3	1271.5	1252.2	1231.5	1210.4	1183.9	1165.5	1157.8	1158.3
20°	1237.8	1273.3	1290.4	1264.7	1235.5	1204.1	1168.2	1135.8	1118.7	1111.1	1110.2
22.5°	1276.4	1310.6	1302.9	1253.1	1211.7	1161.4	1116.5	1092.7	1084.1	1078.7	1079.6
25°	1322.7	1351.9	1311.9	1236.0	1172.6	1104.8	1070.2	1062.6	1058.5	1054.5	1054.5
27.5°	1382.9	1398.6	1318.7	1210.8	1111.5	1044.6	1032.0	1033.4	1032.0	1025.3	1026.6
30°	1462.4	1459.3	1325.0	1169.9	1041.5	990.2	991.1	997.0	997.9	993.4	995.6
32.5°	1567.1	1535.2	1328.1	1116.9	974.5	942.6	943.5	949.8	954.3	946.7	950.2
35°	1693.8	1623.7	1323.2	1050.4	922.8	897.2	890.5	892.3	893.6	886.4	891.4
37.5°	1841.6	1723.0	1301.1	976.8	880.2	852.8	838.4	826.2	819.1	812.3	816.8
40°	2003.8	1831.3	1260.7	904.9	832.5	805.6	784.0	761.1	736.8	727.8	731.9
42.5°	2173.7	1942.7	1211.7	836.1	777.7	755.7	732.8	699.5	663.2	644.7	647.0
45°	2349.8	2056.8	1163.7	768.3	721.6	712.1	685.6	645.6	606.1	582.7	580.9
47.5°	2522.3	2164.7	1093.1	700.0	669.0	679.3	658.7	621.8	577.8	540.9	536.9
50°	2687.2	2265.8	977.7	630.8	626.3	669.4	649.7	596.7	546.3	499.2	495.1
52.5°	2850.7	2347.5	829.8	567.9	603.4	666.7	638.0	579.6	518.0	468.6	463.2
55°	2989.6	2389.8	687.4	514.0	570.1	643.8	624.1	559.4	478.0	425.5	421.0
57.5°	3068.6	2355.6	568.8	461.0	524.3	606.1	600.2	516.2	430.4	390.0	384.6
60°	3034.5	2217.2	471.8	414.7	480.7	565.2	558.9	473.6	394.0	355.8	350.4
62.5°	2846.2	1953.5	394.9	374.3	441.2	523.4	517.6	440.8	366.2	329.3	323.5
65°	2467.0	1589.1	335.2	340.6	401.2	473.1	481.6	413.3	344.2	308.2	302.4
67.5°	1881.6	1151.1	288.4	311.4	362.1	423.7	448.4	393.6	325.7	291.6	286.2
70°	1072.5	653.7	248.9	283.1	327.5	377.9	422.8	377.9	306.0	277.7	274.1
72.5°	406.6	300.1	215.2	254.7	294.3	339.2	394.5	353.1	283.1	261.9	258.3
75°	217.0	182.9	181.1	221.5	256.1	301.5	359.0	328.9	266.0	276.8	285.7
77.5°	147.8	129.4	151.4	189.6	214.3	259.7	321.2	292.0	230.5	229.6	211.6
80°	102.4	91.7	123.1	152.8	165.8	218.4	280.4	250.7	187.8	175.2	167.6
82.5°	61.6	59.8	92.1	114.1	117.3	168.5	232.3	210.3	153.7	133.9	134.8
85°	33.7	35.5	58.9	66.9	68.3	117.7	182.0	162.6	118.2	99.3	100.2
87.5°	9.4	12.1	21.6	26.5	32.8	61.1	108.3	96.6	59.3	41.3	41.3
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)