

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: P946799

Luminaire Tested: **GALN-SB2B-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10254 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

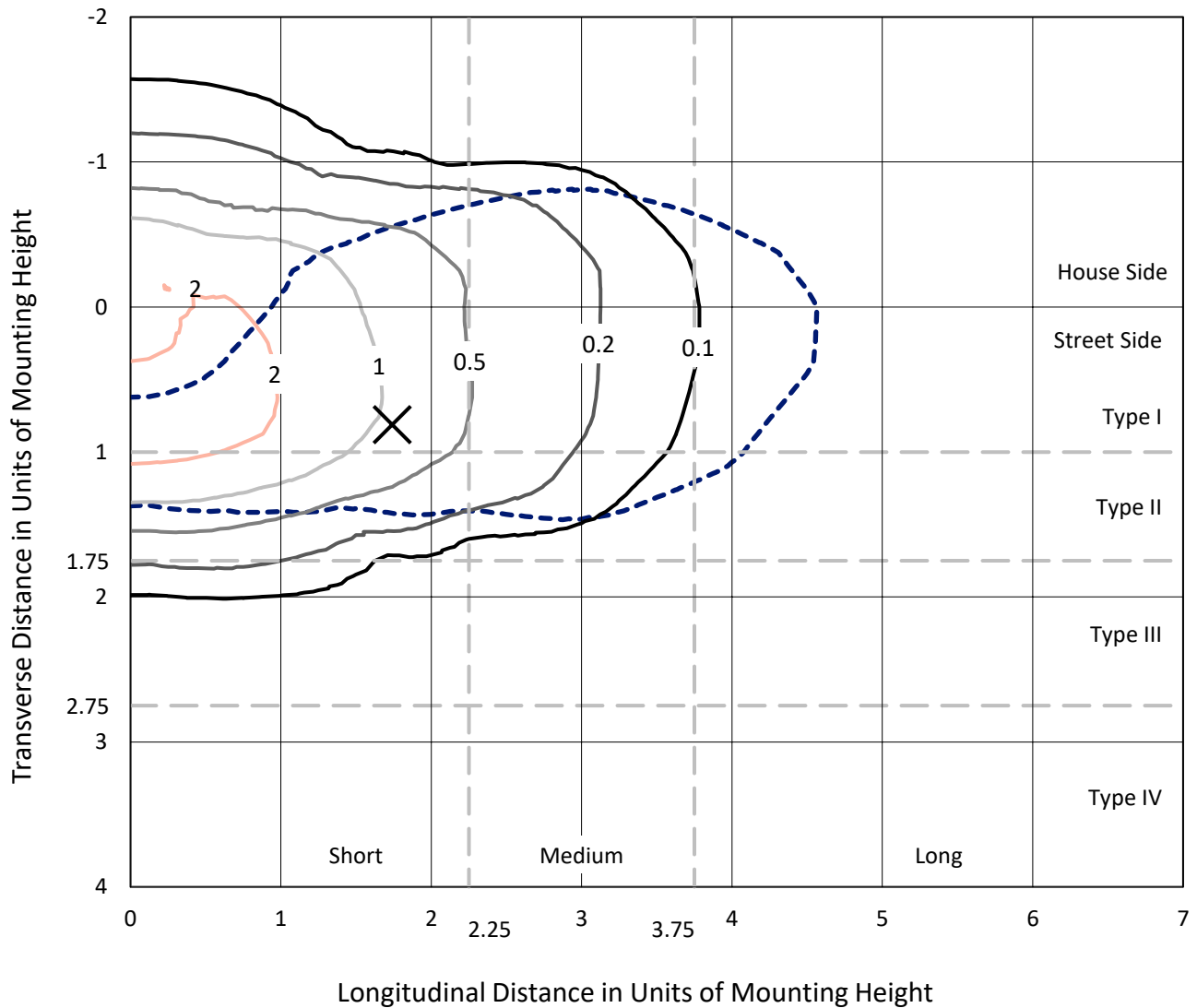
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

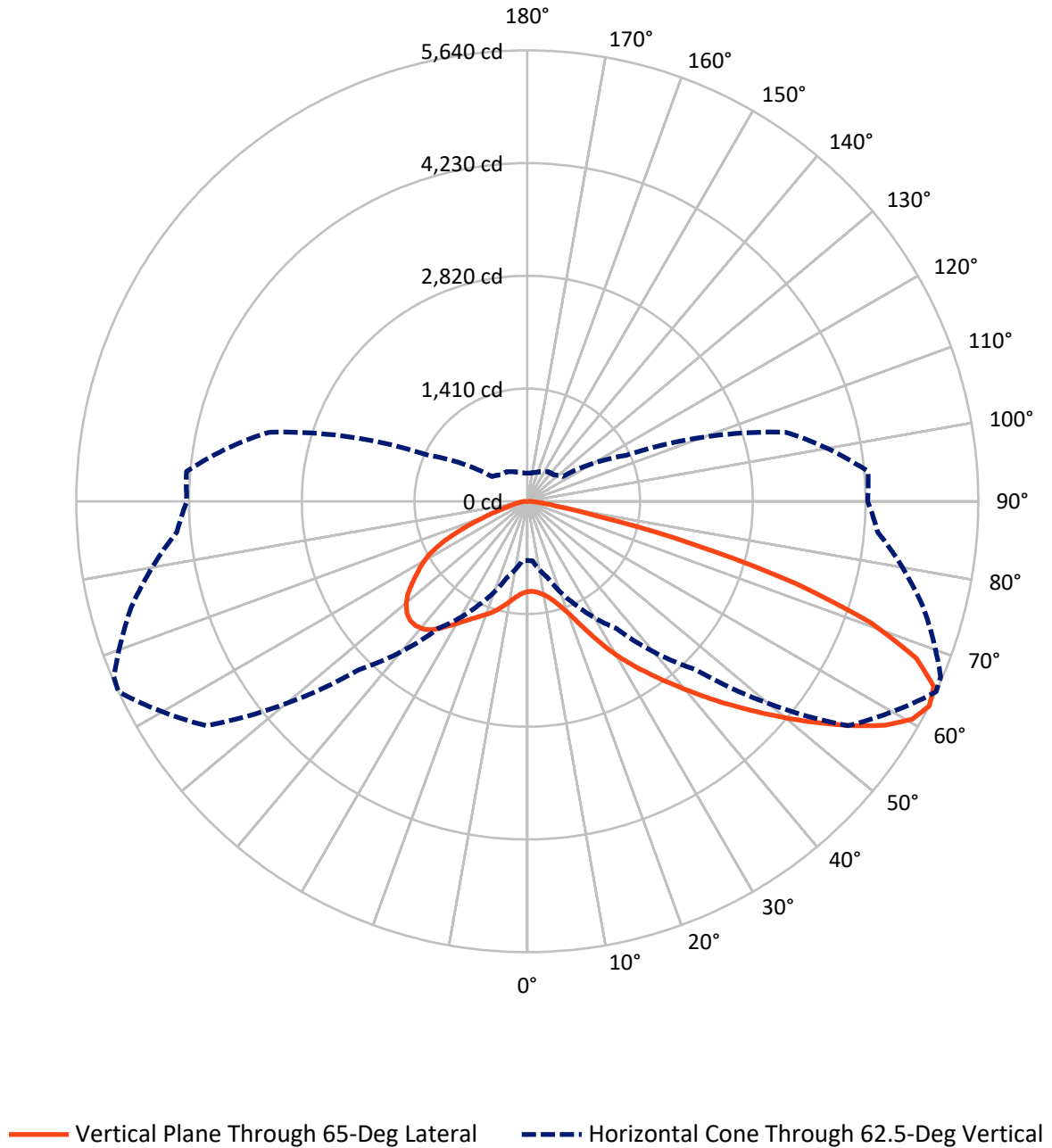
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3235.7	0.0	3235.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	7018.3	0.0	7018.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	10254.0	0.0	10254.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	1.1
10°-20°	382.0	3.7
20°-30°	774.6	7.6
30°-40°	1340.4	13.1
40°-50°	2028.5	19.8
50°-60°	2378.2	23.2
60°-70°	1993.9	19.4
70°-80°	1100.8	10.7
80°-90°	143.0	1.4
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°	10254.0	100.0
0°-180°	10254.0	100.0



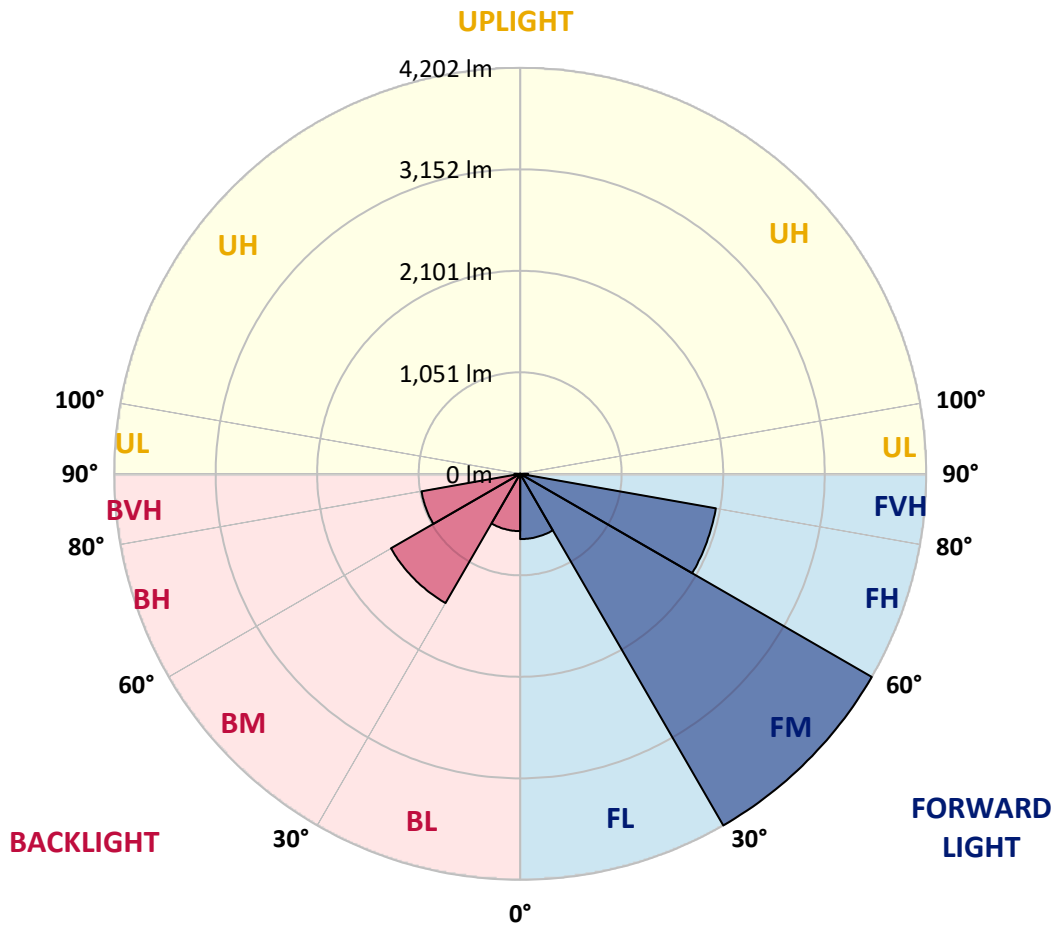
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	675.9	6.6			
FM (30°-60°)	4202.4	41.0			
FH (60°-80°)	2056.7	20.1			G2/5000
FVH (80°-90°)	83.3	0.8			G1/100
BL (0°-30°)	593.4	5.8	B2/1000		
BM (30°-60°)	1544.7	15.1	B2/2500		
BH (60°-80°)	1038.0	10.1	B3/2500		G3/2500
BVH (80°-90°)	59.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9
2.5°	1122.5	1119.3	1122.0	1122.0	1123.0	1122.5	1126.2	1127.3	1128.9	1132.1
5°	1111.3	1110.8	1115.6	1119.8	1124.1	1127.8	1132.6	1139.5	1140.6	1144.3
7.5°	1107.6	1104.4	1111.9	1117.2	1127.3	1136.3	1149.1	1160.8	1165.6	1167.2
10°	1136.3	1131.0	1137.9	1141.1	1149.6	1158.7	1173.6	1192.2	1197.5	1203.9
12.5°	1185.3	1179.4	1189.5	1194.3	1202.3	1210.3	1220.4	1238.5	1241.1	1252.8
15°	1252.3	1245.4	1251.8	1257.6	1270.9	1278.4	1288.5	1306.0	1306.0	1315.1
17.5°	1343.3	1334.2	1339.0	1341.1	1349.7	1360.8	1377.9	1393.3	1401.3	1398.1
20°	1478.9	1467.8	1467.8	1457.1	1453.9	1463.0	1485.3	1506.6	1515.1	1498.6
22.5°	1682.7	1666.7	1657.7	1621.5	1607.1	1608.2	1630.5	1656.6	1663.5	1634.3
25°	1941.8	1916.8	1904.5	1851.3	1818.9	1790.7	1808.2	1841.7	1851.3	1815.1
27.5°	2200.8	2202.4	2190.7	2126.9	2073.2	2021.6	2012.5	2047.6	2057.7	2016.8
30°	2564.2	2526.4	2504.1	2427.5	2350.9	2278.5	2241.3	2255.6	2258.3	2209.4
32.5°	2877.5	2868.0	2820.1	2753.0	2654.6	2541.3	2479.1	2456.2	2451.9	2382.3
35°	3234.5	3229.2	3178.6	3098.8	2992.4	2835.0	2722.7	2657.3	2652.0	2554.1
37.5°	3597.3	3597.3	3547.8	3460.6	3350.5	3153.6	2982.9	2879.1	2862.1	2734.4
40°	3886.7	3869.2	3878.2	3841.5	3715.4	3506.3	3271.7	3121.2	3098.3	2945.1
42.5°	4051.1	4045.3	4099.5	4140.5	4088.9	3921.8	3589.9	3383.5	3351.5	3177.0
45°	4087.8	4081.4	4178.2	4328.3	4400.6	4332.0	3935.7	3659.6	3620.7	3419.6
47.5°	4003.2	3990.5	4132.5	4369.2	4601.2	4721.9	4310.2	3959.1	3902.7	3655.8
50°	3748.9	3736.7	3951.6	4266.0	4668.7	4986.9	4716.6	4276.7	4190.5	3909.1
52.5°	3196.2	3202.0	3538.8	3970.8	4579.9	5151.8	5066.7	4611.3	4507.5	4168.1
55°	2489.7	2502.5	2916.4	3392.0	4224.5	5126.8	5305.5	4956.0	4852.8	4411.8
57.5°	1782.7	1839.1	2226.9	2697.7	3542.0	4730.5	5357.7	5283.7	5183.7	4677.8
60°	1155.5	1165.6	1564.6	2039.1	2697.2	4026.1	5251.8	5532.2	5454.0	4949.1
62.5°	740.5	747.4	990.6	1426.3	1941.2	2978.6	4895.4	5640.2	5616.2	5128.4
65°	544.2	538.9	665.5	942.7	1307.6	1837.0	4203.3	5588.0	5635.4	5240.6
67.5°	454.3	446.9	509.1	652.8	963.4	1043.2	3110.0	5249.1	5422.6	5227.9
70°	413.9	407.5	445.3	484.6	751.7	698.5	1567.8	4563.4	4830.5	5082.6
72.5°	350.6	339.4	391.0	430.4	584.7	535.7	648.0	3505.3	3830.9	4617.1
75°	271.8	264.4	308.6	378.8	439.4	418.1	409.6	2128.5	2483.9	3570.7
77.5°	215.5	205.3	245.8	295.3	395.3	315.5	298.4	916.6	1268.8	2279.6
80°	162.3	153.2	186.7	233.5	303.8	237.8	193.1	374.0	478.3	1154.9
82.5°	115.4	107.5	130.3	171.3	204.3	213.3	118.6	209.6	235.7	445.3
85°	73.9	69.2	87.2	107.5	129.8	137.3	72.4	109.6	120.2	183.5
87.5°	40.4	33.0	46.8	50.0	60.1	54.8	34.6	39.9	43.1	66.5
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1129.9	0°	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9
1132.1	2.5°	1134.2	1135.8	1141.1	1142.7	1146.4	1151.2	1154.4	1157.6	1157.6	1160.8
1149.1	5°	1149.6	1153.4	1164.5	1170.4	1180.0	1189.5	1195.4	1202.3	1206.6	1208.7
1176.2	7.5°	1179.4	1185.3	1201.2	1211.3	1227.8	1241.1	1250.2	1259.8	1261.9	1267.7
1214.0	10°	1219.9	1226.8	1244.9	1264.0	1283.7	1300.2	1308.7	1315.6	1318.3	1319.3
1262.4	12.5°	1266.1	1276.2	1299.7	1323.1	1343.8	1358.2	1360.3	1358.7	1351.3	1344.9
1322.0	15°	1323.1	1332.1	1358.2	1383.7	1403.9	1406.6	1393.3	1384.8	1375.7	1374.1
1388.5	17.5°	1391.2	1395.9	1419.9	1444.9	1446.5	1437.4	1417.8	1409.8	1401.3	1395.4
1475.2	20°	1470.4	1468.8	1485.8	1496.5	1485.3	1457.7	1427.9	1414.6	1406.0	1399.1
1581.6	22.5°	1565.1	1552.9	1550.8	1548.1	1518.3	1460.3	1419.9	1402.9	1389.6	1380.0
1730.0	25°	1702.9	1656.1	1623.6	1605.5	1538.5	1445.9	1394.3	1356.6	1331.6	1315.1
1911.4	27.5°	1875.3	1796.5	1714.6	1670.4	1538.5	1416.7	1332.6	1271.5	1230.5	1213.5
2087.0	30°	2039.6	1957.2	1836.4	1748.7	1534.8	1368.8	1233.2	1148.0	1100.2	1083.1
2237.0	32.5°	2180.1	2090.2	1965.7	1834.3	1525.7	1291.1	1109.7	1015.6	969.3	949.1
2385.4	35°	2310.4	2214.7	2095.5	1928.5	1501.8	1177.3	974.1	902.3	850.7	818.2
2536.5	37.5°	2444.0	2330.1	2218.4	2013.6	1458.7	1044.3	869.8	808.6	748.0	704.4
2697.2	40°	2589.2	2453.0	2349.8	2064.1	1388.0	917.7	788.9	733.1	668.7	622.4
2882.3	42.5°	2758.9	2600.4	2496.1	2090.2	1291.1	827.8	736.3	681.5	620.8	583.1
3080.8	45°	2936.1	2762.6	2629.6	2089.7	1183.1	785.7	719.3	665.0	598.0	558.6
3284.5	47.5°	3121.7	2932.3	2745.1	2055.6	1089.5	791.6	709.7	629.3	555.4	517.1
3490.4	50°	3307.9	3118.0	2856.8	1991.8	1049.6	778.8	674.0	579.3	492.1	457.5
3683.5	52.5°	3492.5	3315.4	2953.1	1900.8	1009.2	731.5	628.3	514.4	466.0	442.1
3883.0	55°	3678.2	3510.6	3057.9	1768.3	908.1	676.2	551.7	490.0	445.3	423.5
4078.2	57.5°	3864.4	3736.2	3157.4	1635.9	781.0	608.1	509.6	460.2	424.5	405.9
4241.6	60°	4058.0	3994.2	3260.0	1514.0	655.4	520.8	478.8	436.2	400.1	379.3
4398.5	62.5°	4257.5	4278.3	3340.4	1357.1	540.0	467.6	451.1	407.5	372.4	352.7
4528.3	65°	4458.6	4552.2	3393.0	1139.5	437.8	417.1	421.3	376.1	340.5	323.4
4623.5	67.5°	4610.2	4749.6	3378.1	862.4	359.1	369.2	384.1	343.1	309.6	296.3
4608.1	70°	4627.2	4726.2	3231.3	590.5	300.6	322.4	342.6	310.7	276.1	266.5
4391.0	72.5°	4400.6	4407.0	2822.2	385.7	254.3	283.0	299.0	277.7	244.2	234.6
3841.5	75°	3806.4	3644.7	2072.1	254.3	212.8	243.1	258.0	243.1	210.7	212.8
2874.3	77.5°	2883.9	2581.2	1258.2	180.9	177.7	204.3	224.5	213.9	186.2	209.1
1445.4	80°	1485.8	1396.5	561.2	135.1	140.4	163.3	184.6	170.8	147.4	140.4
322.9	82.5°	340.5	395.8	221.3	96.8	101.6	117.6	141.0	128.2	105.9	89.4
134.6	85°	119.2	130.3	97.9	60.6	59.6	73.4	95.8	85.7	71.8	57.5
56.9	87.5°	37.8	49.5	36.7	24.5	25.5	33.0	44.2	40.4	33.5	21.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
1129.9
1160.8
1209.7
1265.6
1316.7
1344.9
1374.1
1395.9
1399.7
1383.2
1321.5
1222.0
1093.2
959.2
828.8
716.1
631.5
590.5
565.0
522.4
459.6
442.1
421.3
402.7
377.7
352.2
322.9
296.9
267.1
234.1
205.3
184.1
128.2
88.3
60.6
22.9
0.0

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