

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: P939477

Luminaire Tested: **GALN-SB2A-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2A-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8066 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

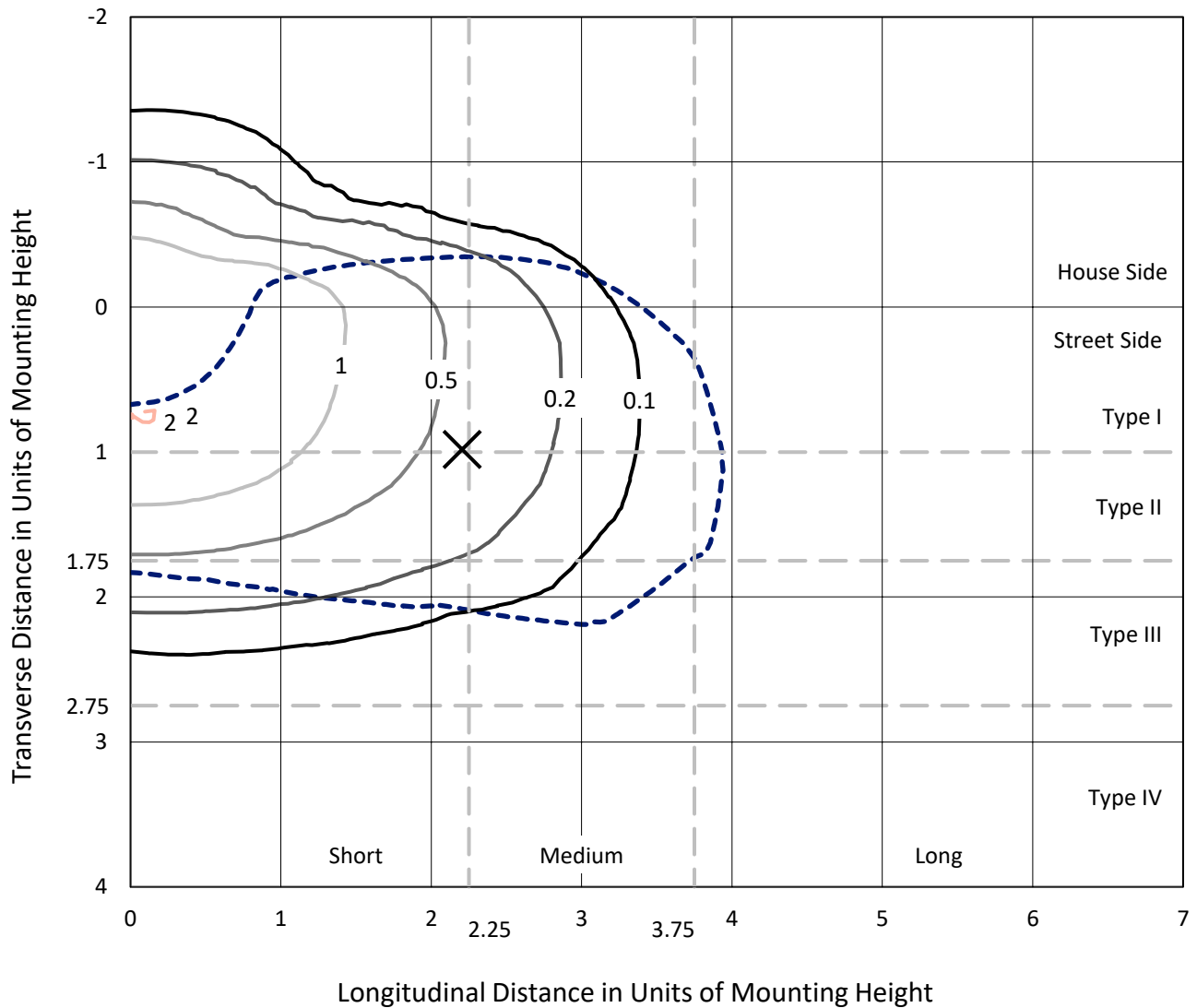
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

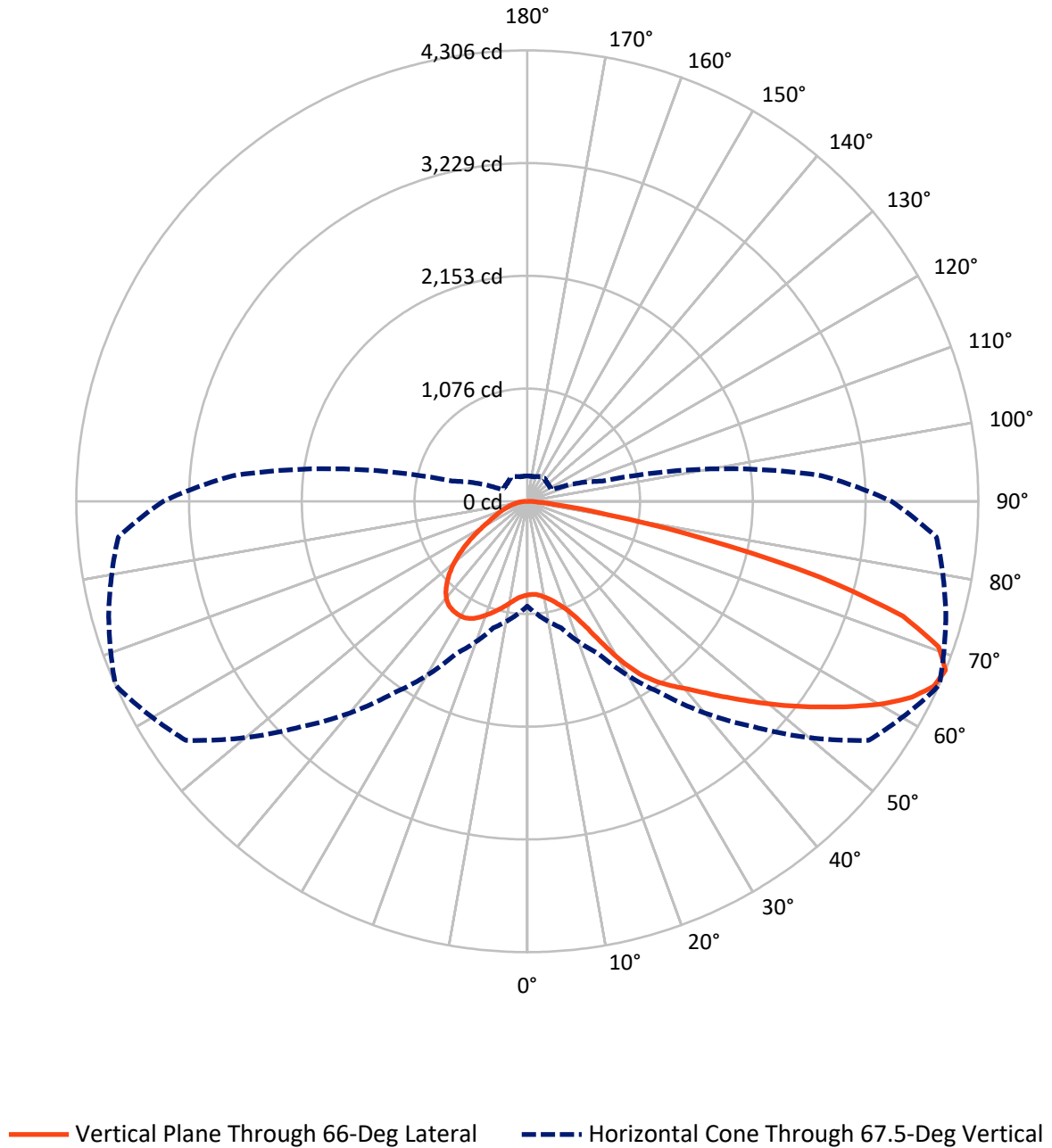
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2005.6	0.0	2005.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	6060.4	0.0	6060.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	8066.0	0.0	8066.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	1.1
10°-20°	293.0	3.6
20°-30°	564.8	7.0
30°-40°	990.4	12.3
40°-50°	1472.3	18.3
50°-60°	1866.3	23.1
60°-70°	1826.2	22.6
70°-80°	871.1	10.8
80°-90°	93.1	1.2
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°	8066.0	100.0
0°-180°	8066.0	100.0

Coefficient of Utilization



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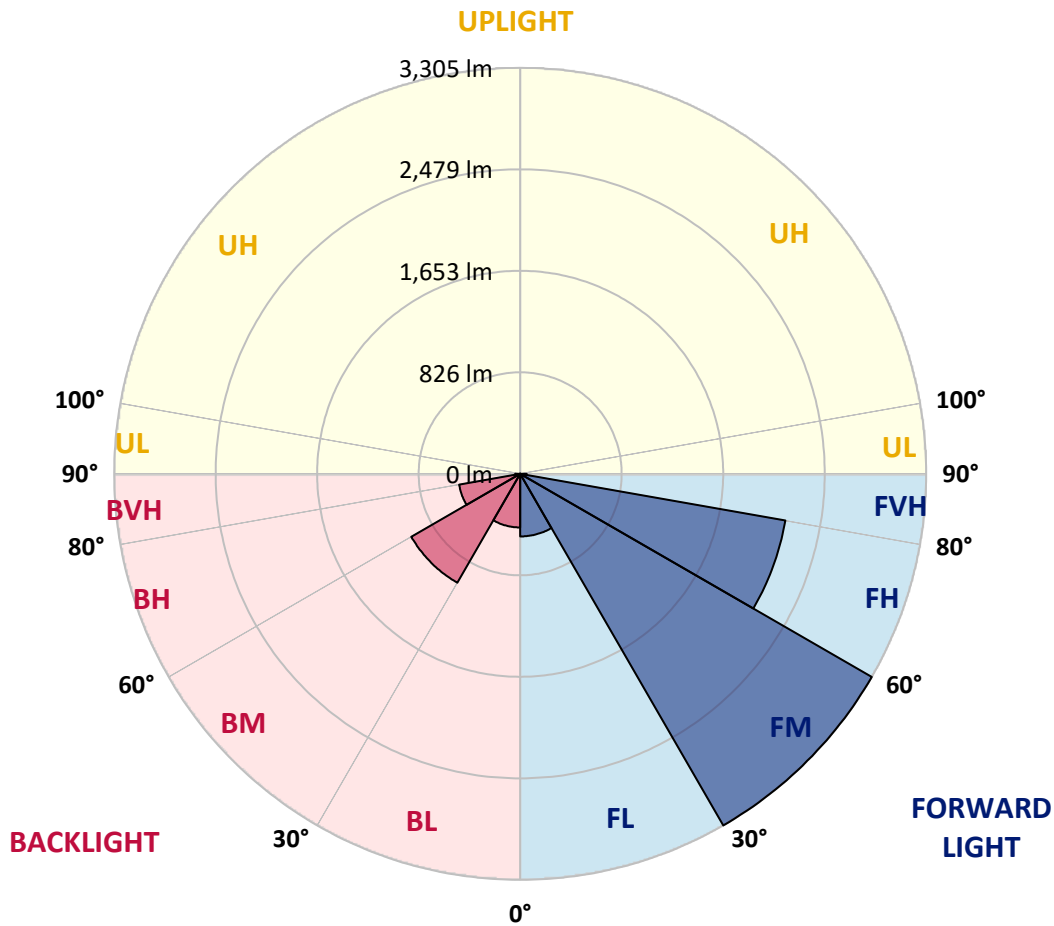
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	509.7	6.3			
FM (30°-60°)	3305.4	41.0			
FH (60°-80°)	2192.6	27.2			G2/5000
FVH (80°-90°)	52.8	0.7			G1/100
BL (0°-30°)	436.9	5.4	B1/500		
BM (30°-60°)	1023.7	12.7	B2/2500		
BH (60°-80°)	504.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	40.3	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	894.6	894.6	894.6	894.6	894.6	894.6	894.6	894.6	894.6	894.6
2.5°	885.3	890.4	889.1	887.0	886.6	887.4	888.7	890.0	889.5	891.7
5°	882.8	887.8	887.4	887.4	889.1	892.5	894.6	896.7	894.6	897.2
7.5°	884.5	888.3	890.0	891.7	895.9	902.3	907.3	912.0	909.5	912.4
10°	906.1	909.0	910.7	910.7	913.7	920.9	926.0	934.5	932.3	937.0
12.5°	945.5	948.4	948.4	946.8	948.9	953.5	955.2	964.6	960.7	968.4
15°	993.8	999.7	995.1	992.1	992.9	997.6	997.2	1004.4	1000.6	1006.9
17.5°	1047.2	1054.8	1047.2	1046.8	1045.1	1050.2	1050.6	1056.9	1050.2	1054.8
20°	1110.3	1120.9	1114.6	1116.7	1112.9	1115.0	1117.1	1126.4	1115.8	1119.2
22.5°	1199.3	1212.0	1205.3	1213.3	1210.8	1209.1	1208.7	1225.2	1208.7	1209.9
25°	1329.0	1344.3	1332.4	1343.4	1343.4	1348.9	1355.3	1376.5	1348.9	1340.9
27.5°	1520.6	1535.8	1512.5	1519.3	1517.2	1530.7	1524.0	1576.5	1546.8	1533.7
30°	1751.1	1778.2	1734.2	1732.5	1730.3	1752.0	1761.7	1796.5	1766.4	1753.2
32.5°	2000.3	2028.7	1976.1	1960.9	1952.8	1966.0	1957.9	1985.9	1965.1	1944.8
35°	2263.9	2291.9	2241.9	2212.2	2180.0	2152.4	2123.6	2130.8	2111.3	2080.4
37.5°	2513.1	2564.4	2511.4	2479.6	2420.3	2366.5	2285.9	2252.5	2234.2	2205.8
40°	2766.9	2796.2	2755.9	2728.8	2664.4	2580.0	2451.2	2380.4	2355.9	2328.3
42.5°	2953.8	2981.8	2960.2	2941.5	2891.1	2793.2	2626.7	2538.1	2502.5	2471.6
45°	3102.2	3122.9	3109.4	3116.1	3094.5	2999.6	2808.5	2707.2	2670.3	2632.6
47.5°	3161.9	3184.0	3205.6	3245.8	3282.7	3212.8	3003.8	2890.3	2851.3	2812.7
50°	3155.1	3177.6	3240.3	3325.9	3440.3	3417.0	3209.8	3085.2	3049.2	3005.1
52.5°	3100.9	3126.3	3206.8	3349.2	3531.5	3570.0	3419.6	3286.5	3252.6	3200.1
55°	2958.5	2973.8	3094.5	3296.3	3553.1	3676.8	3625.1	3500.9	3467.0	3393.7
57.5°	2694.5	2716.5	2892.4	3153.4	3498.8	3749.3	3805.7	3726.4	3693.8	3588.3
60°	2349.9	2385.1	2586.4	2913.6	3360.7	3748.9	3969.7	3948.1	3920.9	3779.8
62.5°	1960.0	2000.7	2194.4	2574.5	3119.1	3642.5	4072.2	4133.7	4119.7	3956.5
65°	1505.3	1533.3	1726.1	2135.9	2743.2	3414.1	4084.1	4260.4	4262.9	4090.9
67.5°	1002.3	1082.8	1250.2	1602.8	2239.7	3040.7	3979.8	4281.2	4305.7	4137.1
70°	489.1	595.0	759.0	1041.7	1602.8	2468.2	3707.3	4110.8	4165.5	4002.3
72.5°	203.0	237.3	326.7	514.1	920.1	1665.5	3159.8	3648.9	3750.1	3546.3
75°	136.9	148.3	186.9	263.6	419.1	821.3	2278.7	2720.7	2883.9	2678.4
77.5°	105.5	112.7	136.0	184.3	249.2	310.6	1219.7	1639.7	1724.0	1596.0
80°	83.1	88.6	101.7	134.3	176.7	166.1	415.7	742.9	791.6	664.1
82.5°	72.0	74.2	72.9	91.1	117.4	97.0	136.5	274.2	302.6	219.5
85°	52.1	58.1	60.6	56.4	62.3	49.2	55.9	97.0	106.8	95.4
87.5°	21.2	31.4	38.6	36.4	22.9	14.0	17.4	28.4	32.6	35.6
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°
894.6	0°	894.6	894.6	894.6	894.6	894.6	894.6	894.6	894.6	894.6	894.6
895.0	2.5°	895.5	898.4	900.6	903.1	904.8	907.3	912.4	915.4	915.8	917.9
901.8	5°	903.5	907.8	912.4	919.2	926.8	933.2	942.9	949.7	952.3	954.4
918.4	7.5°	920.9	926.8	935.3	947.2	958.2	966.7	978.5	986.6	994.6	997.6
944.6	10°	946.8	955.2	967.5	983.6	995.5	1006.5	1018.8	1025.6	1033.6	1037.0
976.0	12.5°	979.0	987.9	1004.0	1026.4	1037.4	1045.1	1049.3	1047.6	1049.3	1052.3
1013.7	15°	1015.8	1025.6	1043.8	1068.0	1075.6	1068.8	1059.5	1051.0	1049.7	1050.6
1059.5	17.5°	1059.5	1066.7	1087.9	1108.2	1102.7	1074.7	1054.4	1040.8	1034.1	1031.9
1118.0	20°	1120.5	1120.5	1137.9	1150.6	1113.7	1066.3	1034.5	1012.4	998.5	992.5
1197.6	22.5°	1194.7	1187.9	1198.9	1190.0	1111.6	1042.5	998.5	960.3	939.1	930.6
1309.1	25°	1288.8	1280.7	1277.7	1222.6	1096.4	1004.8	933.2	887.0	868.4	863.7
1469.7	27.5°	1430.7	1410.4	1371.8	1240.4	1068.4	945.5	856.9	814.1	803.5	803.9
1676.1	30°	1619.7	1579.1	1484.5	1243.4	1022.6	861.6	778.9	748.4	743.3	745.5
1849.4	32.5°	1794.8	1756.2	1599.8	1229.8	952.3	779.4	709.0	688.7	681.0	683.6
1981.7	35°	1932.1	1921.5	1706.6	1210.8	865.8	702.2	646.3	628.9	614.1	610.7
2106.2	37.5°	2061.8	2057.5	1786.7	1184.1	780.2	647.6	595.9	573.0	551.4	539.5
2244.0	40°	2204.1	2199.9	1839.3	1143.0	704.3	600.1	550.5	520.4	493.7	472.1
2399.9	42.5°	2364.3	2339.3	1864.3	1084.1	639.9	559.8	513.6	473.0	437.8	417.9
2576.2	45°	2539.4	2483.0	1863.8	1009.0	585.7	523.0	474.2	416.6	384.0	365.3
2757.2	47.5°	2725.0	2620.3	1841.0	926.0	533.1	482.3	413.2	369.1	347.5	336.1
2953.8	50°	2916.5	2748.7	1802.0	830.6	479.3	436.1	375.1	345.0	328.4	317.8
3148.8	52.5°	3096.7	2865.3	1754.9	722.6	424.6	391.2	358.1	334.8	317.4	305.6
3337.8	55°	3264.0	2965.7	1688.4	612.0	380.1	361.1	350.1	330.6	310.6	296.7
3529.8	57.5°	3412.8	3031.0	1573.5	508.1	348.4	340.3	341.6	323.4	300.5	288.6
3718.8	60°	3536.5	3078.9	1403.6	411.9	322.5	320.0	328.4	309.8	283.1	269.5
3878.5	62.5°	3610.7	3078.0	1195.1	337.3	300.5	301.3	311.1	292.8	265.7	253.0
3962.0	65°	3604.4	3002.6	966.2	288.6	279.3	280.1	292.8	274.2	251.3	243.7
3920.1	67.5°	3476.8	2818.6	741.2	256.8	256.0	259.8	274.6	261.5	242.4	241.6
3670.0	70°	3131.4	2436.8	534.0	231.4	231.8	237.3	256.8	253.4	237.7	239.4
3085.6	72.5°	2511.0	1857.9	358.5	204.7	205.1	214.0	239.9	247.1	233.1	255.5
2189.3	75°	1672.3	1158.6	230.5	176.3	176.7	188.2	225.0	234.8	220.4	254.7
1139.2	77.5°	803.5	520.8	167.0	148.3	148.3	158.9	194.5	210.2	187.7	197.9
366.2	80°	277.6	195.8	131.4	119.5	117.0	124.2	164.0	182.2	161.9	149.2
119.5	82.5°	109.3	101.7	105.5	92.8	84.3	89.0	127.6	150.4	119.1	107.6
67.4	85°	62.7	66.1	74.6	61.4	48.7	54.7	93.7	108.1	89.8	79.2
22.0	87.5°	17.0	23.3	34.3	31.8	22.0	23.3	44.5	59.8	51.7	39.8
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>
894.6
917.5
954.0
998.0
1038.7
1053.1
1053.5
1034.9
991.3
929.4
864.5
805.2
752.7
687.0
613.2
539.9
474.2
419.1
364.5
333.5
314.0
300.5
291.1
281.0
263.6
249.2
243.3
242.8
239.0
258.9
256.8
181.4
139.9
107.2
80.9
41.1
0.0

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