

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: P940837

Luminaire Tested: **GALN-SB4A-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940837
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-SB4A-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 16165 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

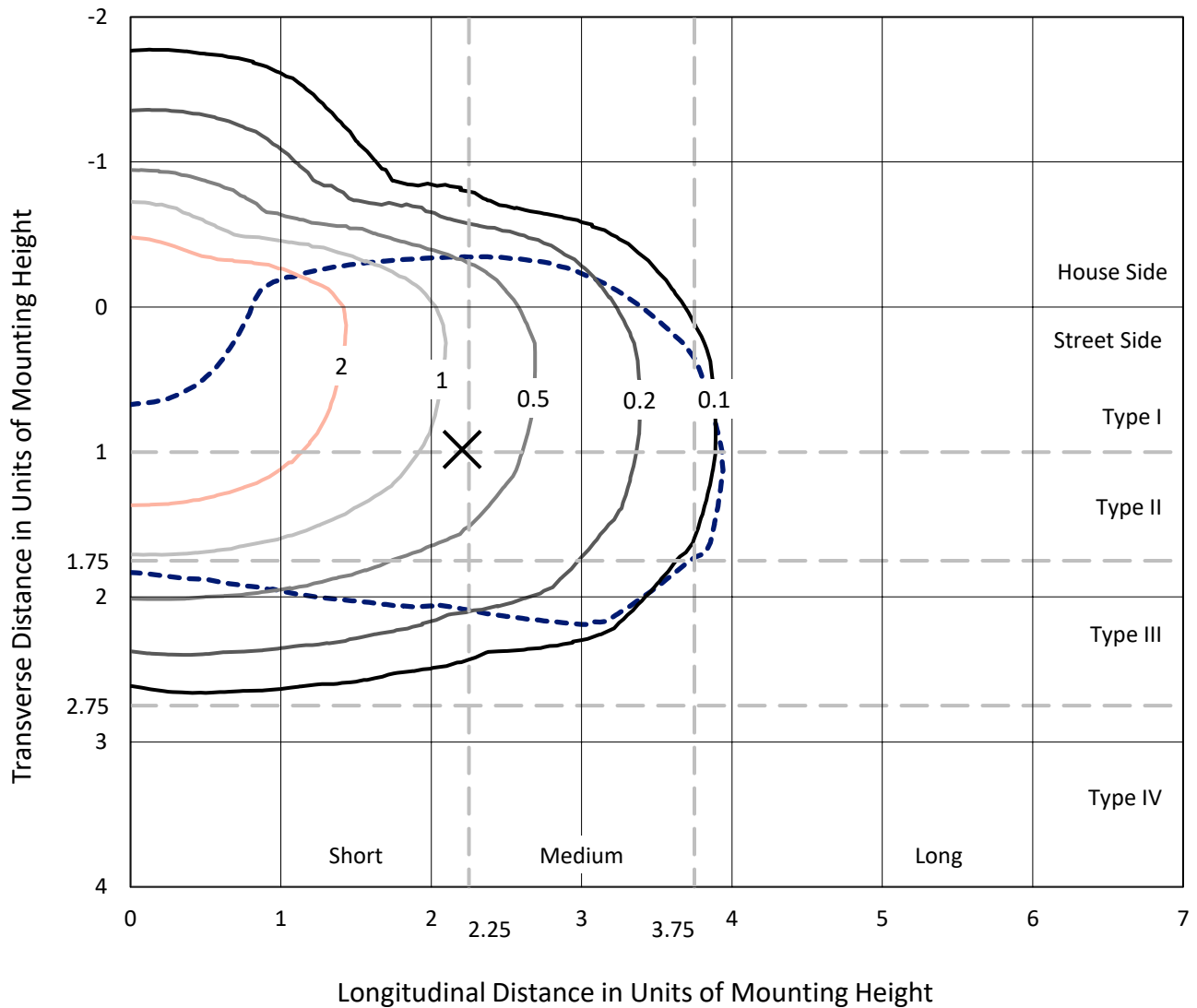
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940837
 CATALOG NUMBER: GALN-SB4A-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

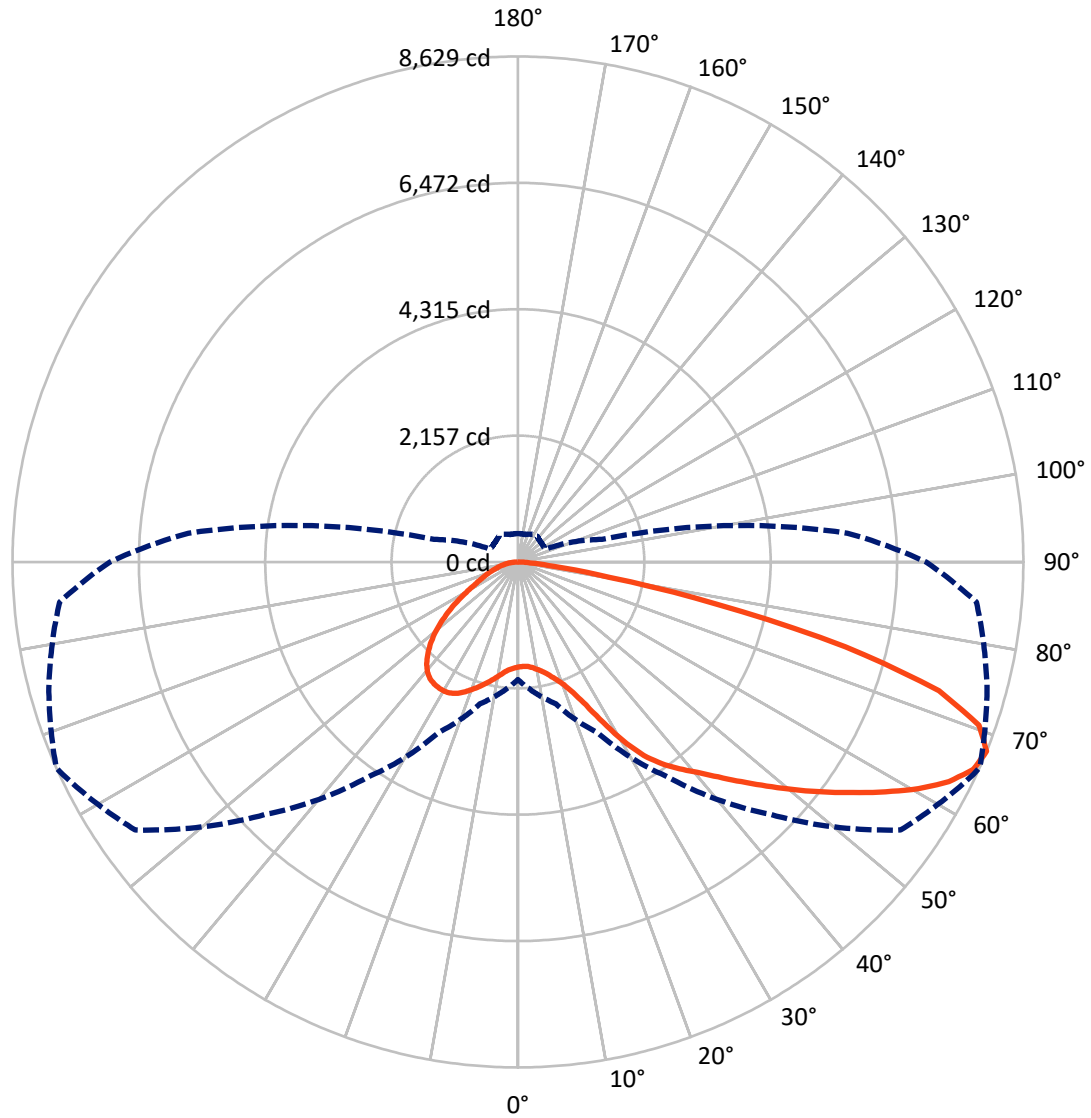
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

REPORT NUMBER: P940837
CATALOG NUMBER: GALN-SB4A-830-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P940837
 CATALOG NUMBER: GALN-SB4A-830-U-T3

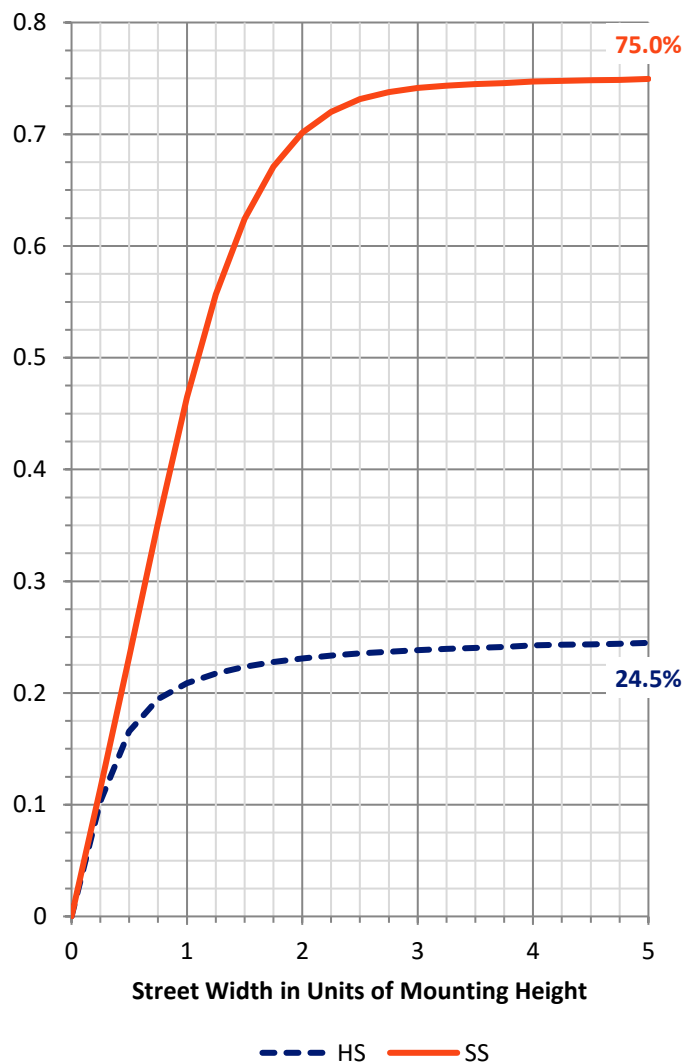
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4019.4	0.0	4019.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	12145.6	0.0	12145.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	16165.0	0.0	16165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	1.1
10°-20°	587.3	3.6
20°-30°	1132.0	7.0
30°-40°	1984.8	12.3
40°-50°	2950.7	18.3
50°-60°	3740.3	23.1
60°-70°	3659.8	22.6
70°-80°	1745.8	10.8
80°-90°	186.6	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°	16165.0	100.0
0°-180°	16165.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940837

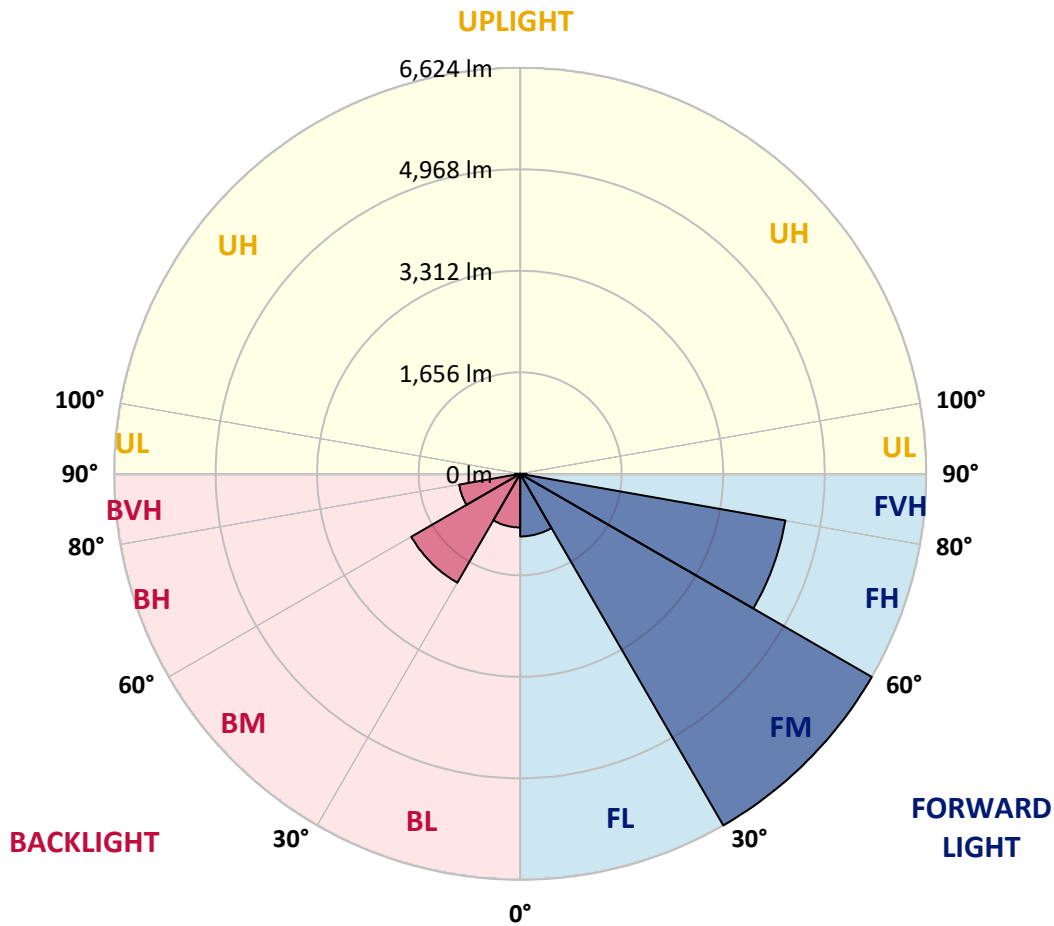
CATALOG NUMBER: GALN-SB4A-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1021.5	6.3			
FM (30°-60°)	6624.3	41.0			
FH (60°-80°)	4394.1	27.2			G2/5000
FVH (80°-90°)	105.8	0.7			G2/225
BL (0°-30°)	875.6	5.4	B2/1000		
BM (30°-60°)	2051.5	12.7	B2/2500		
BH (60°-80°)	1011.5	6.3	B3/2500		G3/2500
BVH (80°-90°)	80.8	0.5			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 III Short



REPORT NUMBER: P940837

CATALOG NUMBER: GALN-SB4A-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1792.9	1792.9	1792.9	1792.9	1792.9	1792.9	1792.9	1792.9	1792.9	1792.9
2.5°	1774.2	1784.4	1781.9	1777.6	1776.8	1778.5	1781.0	1783.6	1782.7	1787.0
5°	1769.1	1779.3	1778.5	1778.5	1781.9	1788.7	1792.9	1797.2	1792.9	1798.0
7.5°	1772.5	1780.2	1783.6	1787.0	1795.5	1808.2	1818.4	1827.7	1822.6	1828.6
10°	1815.8	1821.8	1825.2	1825.2	1831.1	1845.6	1855.8	1872.7	1868.5	1877.8
12.5°	1894.8	1900.8	1900.8	1897.4	1901.6	1911.0	1914.4	1933.0	1925.4	1940.7
15°	1991.7	2003.5	1994.2	1988.3	1990.0	1999.3	1998.4	2012.9	2005.2	2018.0
17.5°	2098.7	2114.0	2098.7	2097.8	2094.4	2104.6	2105.5	2118.2	2104.6	2114.0
20°	2225.2	2246.4	2233.7	2238.0	2230.3	2234.6	2238.8	2257.5	2236.3	2243.1
22.5°	2403.6	2429.1	2415.5	2431.6	2426.5	2423.1	2422.3	2455.4	2422.3	2424.8
25°	2663.5	2694.0	2670.3	2692.3	2692.3	2703.4	2716.1	2758.6	2703.4	2687.2
27.5°	3047.4	3077.9	3031.2	3044.8	3040.6	3067.7	3054.2	3159.5	3100.0	3073.7
30°	3509.4	3563.7	3475.4	3472.0	3467.8	3511.1	3530.6	3600.3	3540.0	3513.6
32.5°	4008.8	4065.7	3960.4	3929.8	3913.7	3940.0	3923.9	3979.9	3938.3	3897.5
35°	4537.1	4593.1	4492.9	4433.4	4368.9	4313.7	4255.9	4270.4	4231.3	4169.3
37.5°	5036.5	5139.2	5033.1	4969.4	4850.5	4742.6	4581.2	4514.1	4477.6	4420.7
40°	5545.2	5603.8	5523.1	5468.8	5339.7	5170.7	4912.5	4770.6	4721.4	4666.2
42.5°	5919.8	5975.8	5932.5	5895.1	5794.1	5597.9	5264.1	5086.6	5015.2	4953.2
45°	6217.0	6258.6	6231.5	6245.0	6201.7	6011.5	5628.4	5425.4	5351.6	5276.0
47.5°	6336.8	6380.9	6424.2	6504.9	6578.8	6438.7	6020.0	5792.4	5714.2	5636.9
50°	6323.2	6368.2	6493.9	6665.5	6894.8	6848.1	6432.7	6183.0	6110.8	6022.5
52.5°	6214.5	6265.4	6426.8	6712.2	7077.4	7154.7	6853.2	6586.5	6518.5	6413.2
55°	5929.1	5959.7	6201.7	6606.0	7120.7	7368.7	7265.1	7016.2	6948.3	6801.3
57.5°	5400.0	5444.1	5796.6	6319.8	7012.0	7513.9	7626.9	7468.1	7402.7	7191.2
60°	4709.5	4780.0	5183.4	5839.1	6735.1	7513.1	7955.6	7912.3	7857.9	7575.1
62.5°	3928.1	4009.6	4397.8	5159.6	6251.0	7299.9	8161.1	8284.3	8256.2	7929.2
65°	3016.8	3072.8	3459.3	4280.6	5497.6	6842.1	8184.9	8538.2	8543.3	8198.5
67.5°	2008.6	2170.0	2505.5	3212.1	4488.7	6093.9	7976.0	8579.8	8629.1	8291.1
70°	980.1	1192.4	1521.1	2087.6	3212.1	4946.4	7429.8	8238.4	8348.0	8021.0
72.5°	406.8	475.6	654.8	1030.2	1843.9	3337.8	6332.5	7312.6	7515.6	7107.1
75°	274.3	297.3	374.5	528.3	840.0	1646.0	4566.8	5452.6	5779.6	5367.7
77.5°	211.5	225.9	272.6	369.5	499.4	622.6	2444.3	3286.0	3455.0	3198.5
80°	166.5	177.5	203.8	269.2	354.2	332.9	833.2	1488.9	1586.5	1330.9
82.5°	144.4	148.6	146.1	182.6	235.3	194.5	273.5	549.5	606.4	439.9
85°	104.5	116.4	121.5	113.0	124.8	98.5	112.1	194.5	214.0	191.1
87.5°	42.5	62.8	77.3	73.0	45.9	28.0	34.8	56.9	65.4	71.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940837
 CATALOG NUMBER: GALN-SB4A-830-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1792.9	0°	1792.9	1792.9	1792.9	1792.9	1792.9	1792.9	1792.9	1792.9	1792.9	1792.9
1793.8	2.5°	1794.6	1800.6	1804.8	1809.9	1813.3	1818.4	1828.6	1834.5	1835.4	1839.6
1807.4	5°	1810.7	1819.2	1828.6	1842.2	1857.5	1870.2	1889.7	1903.3	1908.4	1912.7
1840.5	7.5°	1845.6	1857.5	1874.4	1898.2	1920.3	1937.3	1961.1	1977.2	1993.4	1999.3
1893.1	10°	1897.4	1914.4	1939.0	1971.3	1995.1	2017.1	2041.8	2055.4	2071.5	2078.3
1956.0	12.5°	1961.9	1979.8	2012.0	2057.1	2079.1	2094.4	2102.9	2099.5	2102.9	2108.9
2031.6	15°	2035.8	2055.4	2091.9	2140.3	2155.6	2142.0	2123.3	2106.3	2103.8	2105.5
2123.3	17.5°	2123.3	2137.7	2180.2	2221.0	2209.9	2153.9	2113.1	2085.9	2072.3	2068.1
2240.5	20°	2245.6	2245.6	2280.4	2305.9	2232.0	2136.9	2073.2	2029.0	2001.0	1989.1
2400.2	22.5°	2394.2	2380.6	2402.7	2384.9	2227.8	2089.3	2001.0	1924.6	1882.1	1865.1
2623.5	25°	2582.8	2566.6	2560.7	2450.3	2197.2	2013.7	1870.2	1777.6	1740.3	1730.9
2945.4	27.5°	2867.3	2826.5	2749.2	2486.0	2141.1	1894.8	1717.3	1631.5	1610.3	1611.2
3359.1	30°	3246.1	3164.6	2975.2	2491.9	2049.4	1726.7	1561.0	1499.9	1489.7	1494.0
3706.4	32.5°	3596.9	3519.6	3206.2	2464.7	1908.4	1561.9	1420.9	1380.1	1364.9	1370.0
3971.4	35°	3872.0	3850.8	3420.2	2426.5	1735.2	1407.3	1295.2	1260.4	1230.7	1223.9
4221.1	37.5°	4131.9	4123.4	3580.7	2373.0	1563.6	1297.8	1194.1	1148.3	1105.0	1081.2
4497.1	40°	4417.3	4408.8	3686.0	2290.6	1411.6	1202.6	1103.3	1043.0	989.5	946.1
4809.7	42.5°	4738.3	4688.2	3736.2	2172.6	1282.5	1122.0	1029.4	947.8	877.3	837.4
5163.0	45°	5089.1	4976.2	3735.3	2022.2	1173.8	1048.1	950.4	834.9	769.5	732.1
5525.7	47.5°	5461.1	5251.3	3689.4	1855.8	1068.4	966.5	828.1	739.8	696.4	673.5
5919.8	50°	5845.0	5508.7	3611.3	1664.7	960.6	873.9	751.6	691.3	658.2	637.0
6310.4	52.5°	6206.0	5742.2	3517.0	1448.1	851.0	783.9	717.7	671.0	636.1	612.4
6689.2	55°	6541.5	5943.5	3383.7	1226.4	761.8	723.6	701.5	662.5	622.6	594.5
7074.0	57.5°	6839.6	6074.3	3153.5	1018.3	698.1	682.0	684.6	648.0	602.2	578.4
7452.8	60°	7087.6	6170.3	2812.9	825.5	646.3	641.2	658.2	620.9	567.3	540.2
7773.0	62.5°	7236.2	6168.6	2395.1	676.1	602.2	603.9	623.4	586.9	532.5	507.0
7940.3	65°	7223.5	6017.4	1936.4	578.4	559.7	561.4	586.9	549.5	503.6	488.4
7856.2	67.5°	6967.8	5648.8	1485.5	514.7	513.0	520.6	550.4	524.0	485.8	484.1
7355.1	70°	6275.6	4883.6	1070.1	463.7	464.6	475.6	514.7	507.9	476.5	479.9
6183.9	72.5°	5032.2	3723.4	718.5	410.2	411.1	428.9	480.7	495.2	467.1	512.1
4387.6	75°	3351.4	2322.0	462.0	353.3	354.2	377.1	451.0	470.5	441.6	510.4
2283.0	77.5°	1610.3	1043.8	334.6	297.3	297.3	318.5	389.8	421.3	376.2	396.6
733.8	80°	556.3	392.4	263.3	239.5	234.4	248.9	328.7	365.2	324.4	299.0
239.5	82.5°	219.1	203.8	211.5	186.0	169.0	178.4	255.6	301.5	238.7	215.7
135.0	85°	125.7	132.5	149.5	123.2	97.7	109.6	187.7	216.6	180.1	158.8
44.2	87.5°	34.0	46.7	68.8	63.7	44.2	46.7	89.2	119.8	103.6	79.8
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>
1792.9
1838.8
1911.8
2000.1
2081.7
2110.6
2111.4
2074.0
1986.6
1862.6
1732.6
1613.7
1508.4
1376.7
1229.0
1082.0
950.4
840.0
730.4
668.4
629.3
602.2
583.5
563.1
528.3
499.4
487.5
486.7
479.0
518.9
514.7
363.5
280.3
214.9
162.2
82.4
0.0

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