

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: P955092

Luminaire Tested: **GALN-SB8A-927-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-927-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22489 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

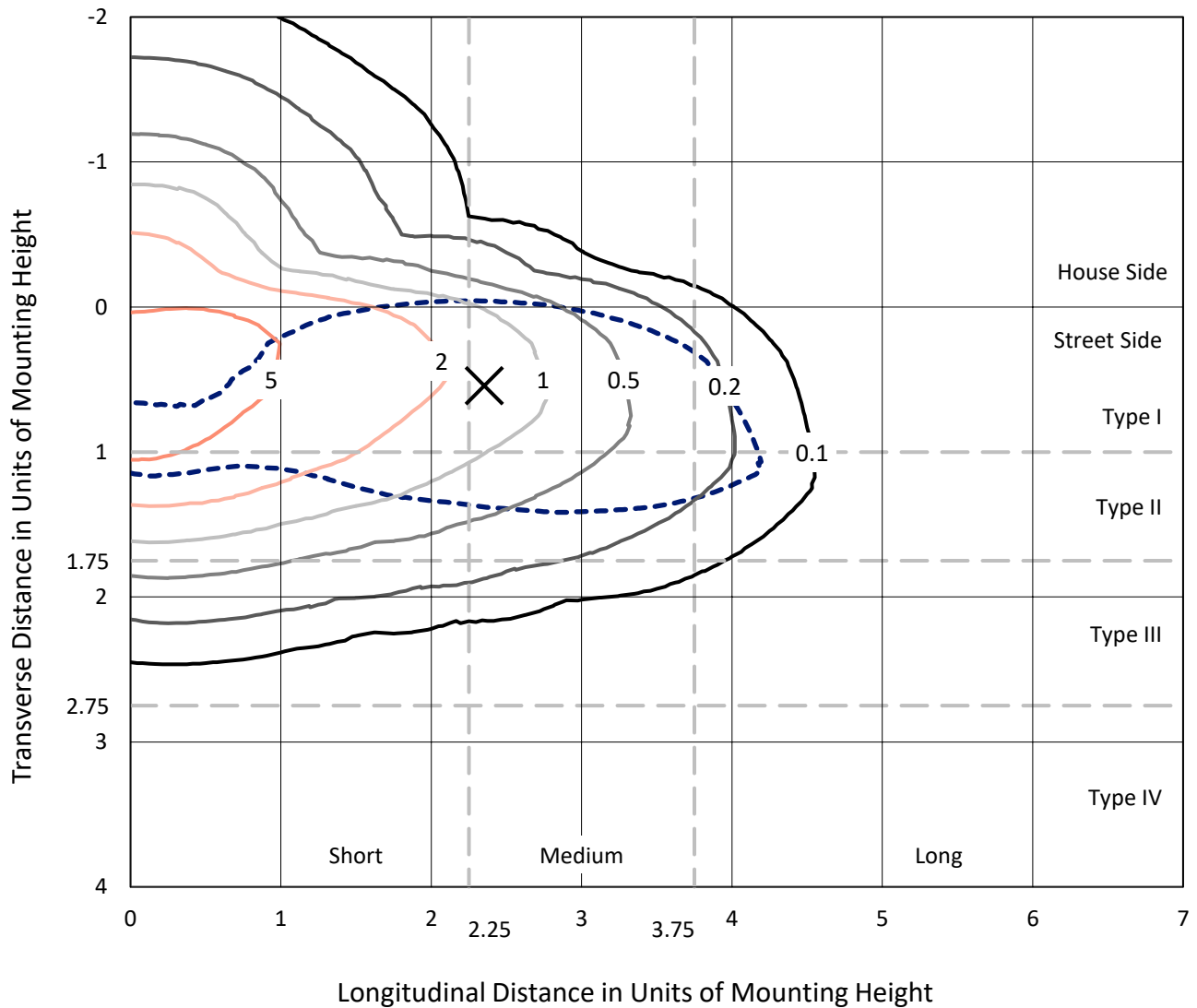
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

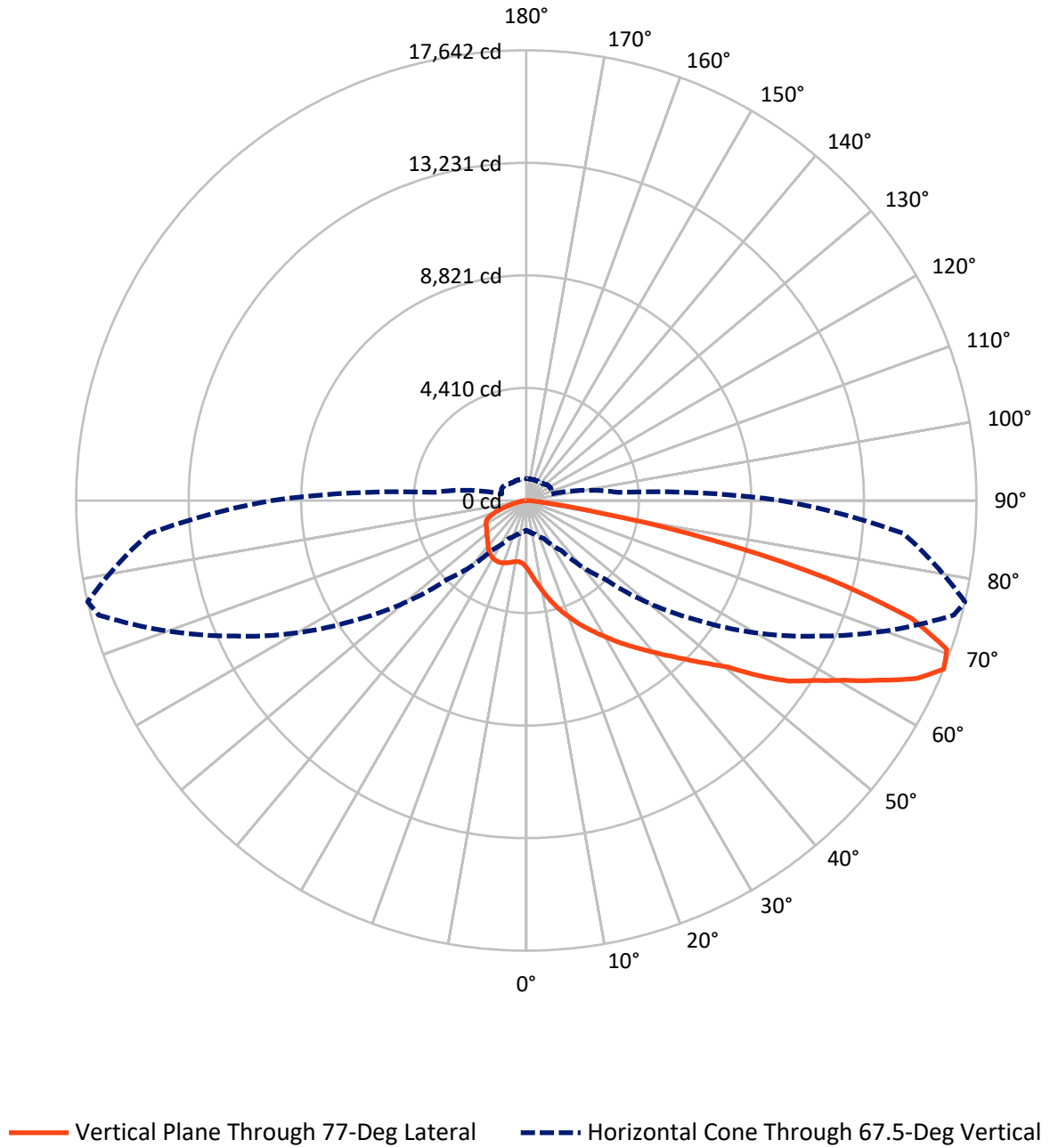
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4254.0	0.0	4254.0
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	18235.0	0.0	18235.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	22489.0	0.0	22489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.8	1.3
10°-20°	1016.1	4.5
20°-30°	1918.5	8.5
30°-40°	3090.6	13.7
40°-50°	4227.4	18.8
50°-60°	4768.6	21.2
60°-70°	4450.9	19.8
70°-80°	2439.8	10.8
80°-90°	294.3	1.3
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°	22489.0	100.0
0°-180°	22489.0	100.0

Coefficient of Utilization



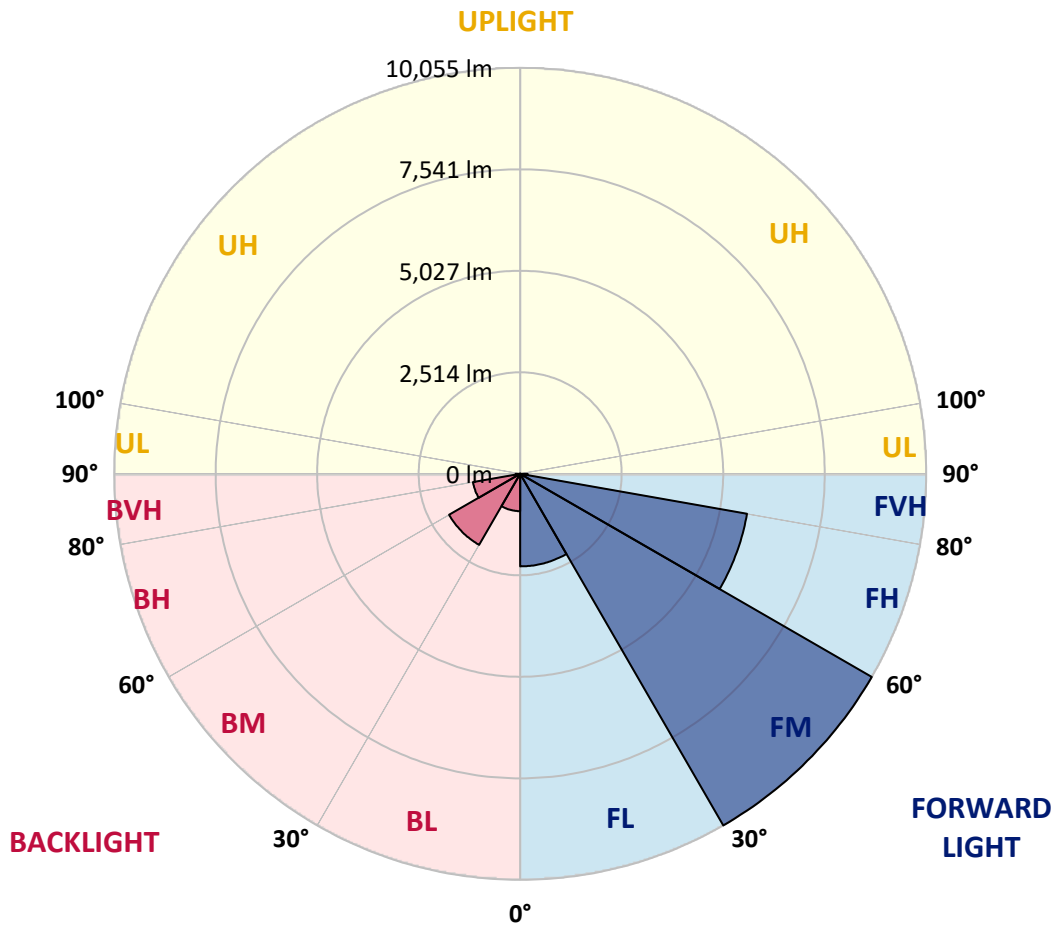
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2292.5	10.2			
FM (30°-60°)	10054.6	44.7			
FH (60°-80°)	5703.9	25.4			G3/7500
FVH (80°-90°)	184.0	0.8			G2/225
BL (0°-30°)	924.9	4.1	B2/1000		
BM (30°-60°)	2032.0	9.0	B2/2500		
BH (60°-80°)	1186.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	110.2	0.5			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2638.7	2638.7	2638.7	2638.7	2638.7	2638.7	2638.7	2638.7	2638.7	2638.7
2.5°	3303.8	3327.1	3298.0	3298.0	3200.5	3149.4	3051.9	2977.6	2844.1	2820.9
5°	3905.2	3934.2	3893.6	3876.1	3761.2	3655.6	3491.9	3330.5	3092.6	3068.2
7.5°	4370.7	4407.8	4371.8	4353.3	4251.1	4132.7	3941.2	3715.9	3380.5	3332.9
10°	4750.3	4756.1	4744.5	4751.4	4671.3	4573.8	4377.6	4115.3	3696.2	3631.2
12.5°	4965.0	4991.7	5015.0	5056.8	5042.8	4982.5	4806.0	4492.6	4030.5	3947.0
15°	5066.0	5112.5	5164.7	5261.1	5338.8	5353.9	5219.3	4897.7	4370.7	4269.7
17.5°	5102.0	5146.1	5228.6	5367.9	5535.0	5647.6	5587.3	5291.2	4707.3	4591.2
20°	5284.3	5297.1	5347.0	5479.3	5660.4	5847.3	5892.6	5669.7	5040.5	4909.3
22.5°	5674.3	5648.8	5662.7	5723.1	5853.1	6034.2	6137.5	6004.0	5383.0	5232.0
25°	6318.6	6244.3	6170.0	6100.4	6166.5	6268.7	6385.9	6338.4	5741.7	5550.1
27.5°	7132.4	7041.8	6878.2	6649.5	6569.4	6605.4	6657.6	6648.3	6073.7	5879.8
30°	7933.4	7827.7	7632.7	7301.9	7090.6	6995.4	6955.9	6929.2	6434.7	6228.1
32.5°	8573.0	8489.4	8297.9	7927.6	7621.1	7458.6	7327.4	7232.2	6812.0	6605.4
35°	9132.6	9054.8	8835.4	8431.4	8098.2	7925.3	7753.5	7550.3	7204.4	6995.4
37.5°	9643.4	9565.6	9264.9	8844.7	8509.2	8389.6	8236.4	7891.6	7597.9	7400.5
40°	9966.1	9948.7	9667.7	9191.8	8843.5	8784.3	8733.2	8287.5	8034.4	7851.0
42.5°	10048.5	10086.8	9863.9	9472.7	9140.7	9093.1	9212.7	8735.5	8524.3	8349.0
45°	9850.0	9960.3	9814.0	9548.2	9352.0	9326.4	9637.5	9225.4	9066.4	8906.2
47.5°	9347.3	9534.2	9473.9	9436.7	9408.9	9519.1	10011.3	9745.5	9680.5	9541.2
50°	8332.7	8686.8	8792.4	9026.9	9296.2	9668.9	10351.5	10313.2	10397.9	10257.5
52.5°	6578.7	7066.2	7679.2	8266.6	8950.3	9619.0	10725.3	11128.1	11485.7	11409.0
55°	5430.6	5650.0	6121.3	7198.6	8279.3	9408.9	10893.6	11786.3	12565.3	12496.8
57.5°	4548.3	4744.5	5034.7	5934.4	7264.7	8931.7	10998.1	12188.0	13304.7	13297.8
60°	3602.2	3810.0	4107.2	4744.5	6079.5	8107.5	10974.9	12645.4	14248.5	14306.6
62.5°	2534.2	2762.9	3092.6	3686.9	4868.7	7039.5	10501.2	12976.2	15359.5	15517.4
65°	1665.8	1816.8	2065.2	2578.3	3627.7	5666.2	9596.9	13019.2	16548.2	16815.2
67.5°	1167.8	1225.9	1372.1	1650.8	2391.4	4345.1	8156.3	12574.5	17341.1	17641.7
70°	911.3	940.3	1014.6	1126.0	1502.2	2921.9	6250.1	11418.3	17171.6	17485.0
72.5°	787.1	814.9	842.8	856.7	1007.6	1804.0	4233.7	9547.0	15575.4	15787.8
75°	713.9	720.9	744.1	739.5	768.5	1170.2	2443.6	6955.9	12289.0	12215.8
77.5°	600.2	609.5	647.8	642.0	682.6	799.8	1268.8	4489.1	7967.1	7470.2
80°	508.5	513.1	554.9	547.9	593.2	579.3	647.8	2288.1	3379.3	2862.7
82.5°	176.5	218.2	423.7	436.5	452.7	350.6	373.8	933.3	1032.0	790.6
85°	85.9	91.7	215.9	306.5	305.3	176.5	182.3	333.2	325.0	255.4
87.5°	13.9	17.4	25.5	119.6	95.2	46.4	62.7	65.0	67.3	58.0
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°
2638.7	0°	2638.7	2638.7	2638.7	2638.7	2638.7	2638.7	2638.7	2638.7	2638.7	2638.7
2732.7	2.5°	2667.7	2609.6	2487.7	2375.1	2286.9	2202.2	2154.6	2113.9	2090.7	2086.1
2860.4	5°	2739.7	2620.1	2398.4	2211.5	2089.6	1999.0	1951.4	1921.2	1906.1	1896.9
3032.2	7.5°	2843.0	2667.7	2351.9	2139.5	2011.8	1946.8	1922.4	1917.8	1916.6	1917.8
3240.0	10°	2985.8	2745.5	2347.3	2122.1	2015.3	1979.3	1978.1	1979.3	1983.9	1985.1
3466.4	12.5°	3140.2	2825.6	2365.9	2137.2	2059.4	2039.6	2036.2	2035.0	2038.5	2040.8
3695.1	15°	3308.5	2931.2	2397.2	2169.7	2108.1	2087.2	2083.8	2076.8	2075.6	2074.5
3935.4	17.5°	3481.5	3035.7	2432.0	2204.5	2139.5	2110.5	2097.7	2081.4	2068.7	2065.2
4183.8	20°	3656.7	3139.0	2456.4	2221.9	2141.8	2101.2	2075.6	2047.8	2025.7	2012.9
4434.5	22.5°	3843.6	3247.0	2471.5	2217.3	2120.9	2065.2	2018.8	1986.2	1952.6	1930.5
4687.6	25°	4025.9	3341.0	2470.3	2192.9	2080.3	2009.5	1950.3	1908.5	1862.0	1838.8
4948.8	27.5°	4201.2	3425.7	2441.3	2149.9	2022.2	1943.3	1872.5	1822.6	1777.3	1755.2
5212.3	30°	4382.3	3496.5	2396.0	2087.2	1953.7	1866.7	1788.9	1745.9	1705.3	1684.4
5490.9	32.5°	4562.2	3561.6	2332.2	2009.5	1874.8	1791.2	1714.6	1675.1	1650.8	1650.8
5790.4	35°	4752.6	3606.8	2247.4	1918.9	1791.2	1711.1	1650.8	1627.5	1625.2	1611.3
6107.3	37.5°	4953.4	3635.8	2144.1	1826.0	1708.8	1633.3	1614.8	1586.9	1563.7	1533.5
6455.6	40°	5164.7	3664.9	2019.9	1729.7	1621.7	1579.9	1571.8	1534.7	1468.5	1394.2
6850.3	42.5°	5421.3	3684.6	1891.1	1633.3	1530.0	1516.1	1527.7	1463.9	1358.2	1302.5
7326.3	45°	5718.4	3717.1	1772.6	1538.2	1436.0	1436.0	1484.8	1401.2	1314.1	1279.3
7869.5	47.5°	6103.9	3792.6	1662.4	1433.7	1348.9	1372.1	1389.6	1325.7	1277.0	1234.0
8531.2	50°	6661.1	3973.7	1548.6	1328.0	1282.8	1329.2	1304.8	1267.7	1210.8	1176.0
9583.0	52.5°	7353.0	4080.5	1447.6	1232.8	1225.9	1272.3	1237.5	1202.7	1159.7	1113.3
10380.5	55°	7824.3	4100.2	1362.9	1163.2	1187.6	1182.9	1170.2	1138.8	1115.6	1054.1
11167.6	57.5°	8351.3	4139.7	1293.2	1121.4	1163.2	1112.1	1107.5	1080.8	1050.6	1008.8
12127.6	60°	8981.7	4201.2	1232.8	1105.1	1142.3	1065.7	1042.5	1032.0	1001.8	980.9
13282.7	62.5°	9668.9	4256.9	1171.3	1107.5	1117.9	1020.4	985.6	982.1	963.5	956.6
14366.9	65°	10137.9	4104.8	1094.7	1105.1	1079.6	974.0	929.9	928.7	913.6	911.3
14837.1	67.5°	9974.2	3623.1	991.4	1072.6	1040.1	927.5	878.8	874.1	854.4	855.6
14346.0	70°	9154.6	2935.8	848.6	992.5	991.4	885.7	825.4	810.3	783.6	788.2
12473.6	72.5°	7617.6	2175.5	657.1	859.0	913.6	847.4	763.9	739.5	705.8	710.5
9208.0	75°	5501.4	1478.9	478.3	653.6	795.2	802.2	703.5	661.7	621.1	628.0
5125.2	77.5°	2815.1	838.1	351.7	450.4	624.5	729.0	648.9	593.2	583.9	648.9
1477.8	80°	918.2	420.2	243.8	315.8	409.8	596.7	568.8	505.0	502.7	517.7
310.0	82.5°	274.0	177.6	156.7	207.8	226.4	457.4	491.0	381.9	328.5	345.9
103.3	85°	94.0	85.9	89.4	103.3	108.0	268.2	343.6	253.1	239.1	263.5
23.2	87.5°	22.1	30.2	25.5	23.2	23.2	65.0	133.5	105.6	146.3	97.5
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>
2638.7
2086.1
1895.7
1921.2
1986.2
2042.0
2073.3
2068.7
2017.6
1931.7
1838.8
1754.1
1683.3
1651.9
1607.8
1528.9
1383.8
1303.7
1285.1
1232.8
1172.5
1104.0
1055.2
994.9
986.7
956.6
910.1
855.6
792.9
709.3
630.4
639.6
444.6
357.5
260.0
94.0
0.0

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