

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: P943247

Luminaire Tested: **GALN-SB7C-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943247
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-SB7C-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50979 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

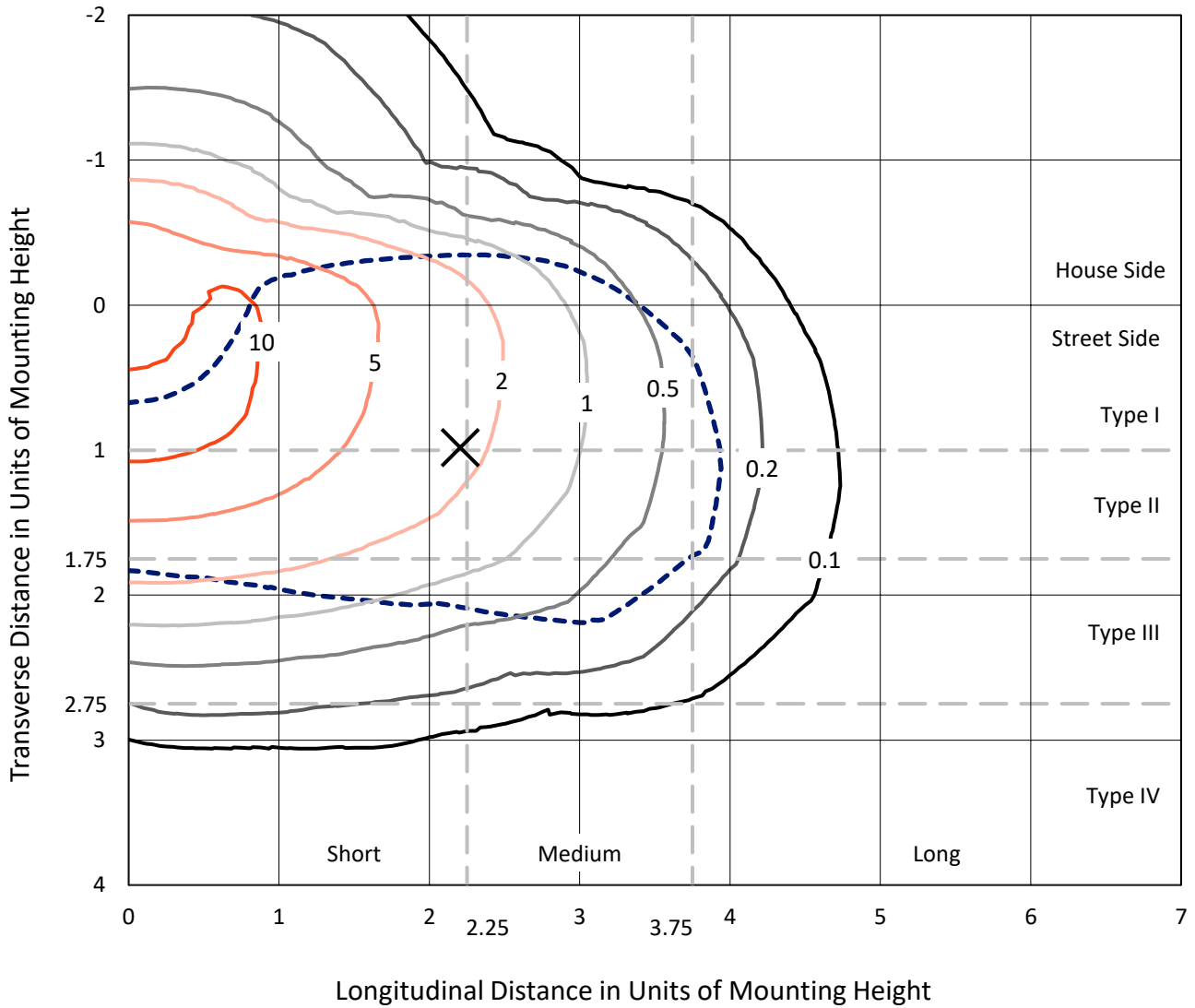
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

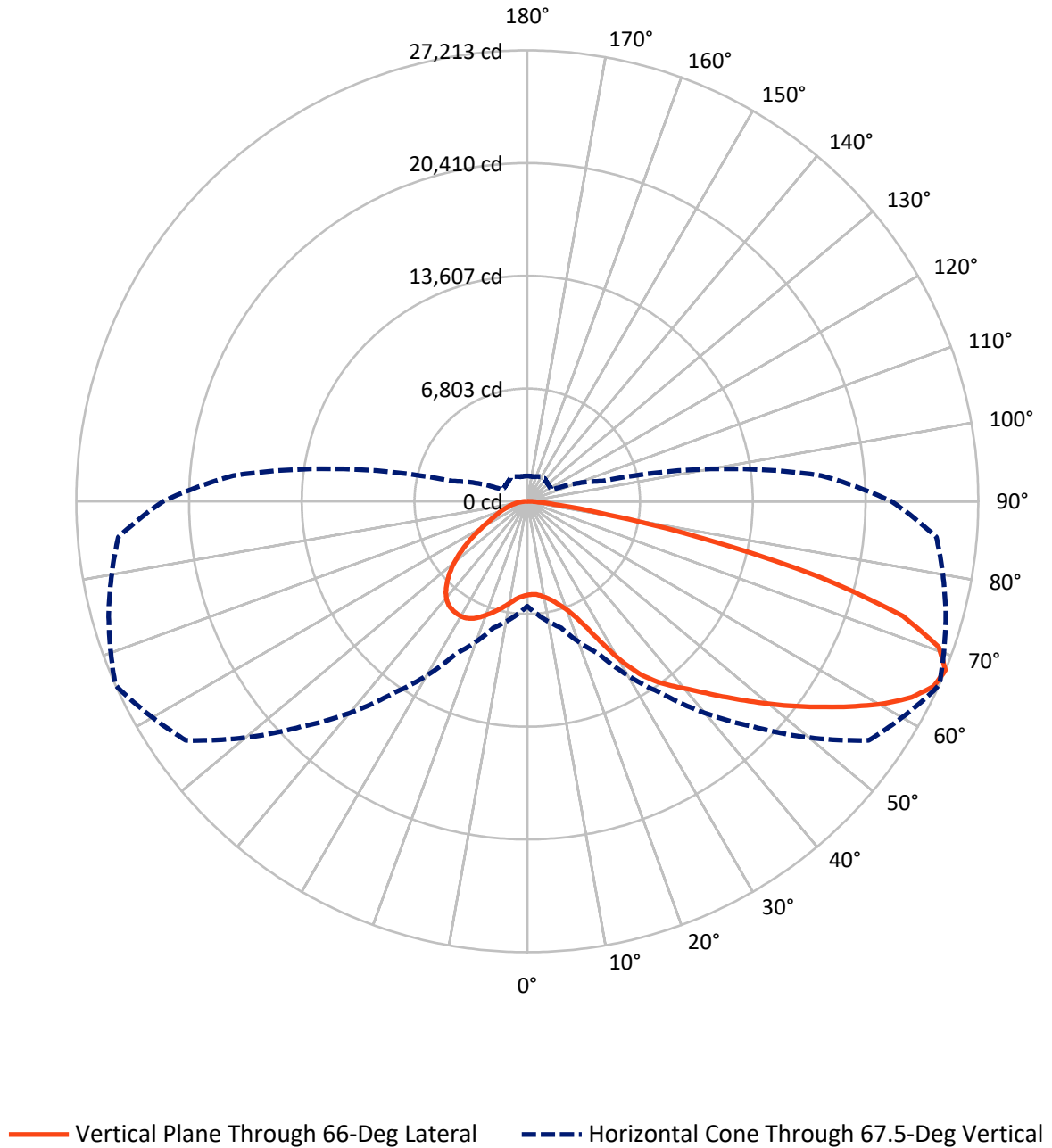
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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	12675.8	0.0	12675.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	38303.2	0.0	38303.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	50979.0	0.0	50979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.6	1.1
10°-20°	1852.1	3.6
20°-30°	3569.9	7.0
30°-40°	6259.3	12.3
40°-50°	9305.6	18.3
50°-60°	11795.7	23.1
60°-70°	11541.8	22.6
70°-80°	5505.6	10.8
80°-90°	588.4	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°	50979.0	100.0
0°-180°	50979.0	100.0

Coefficient of Utilization



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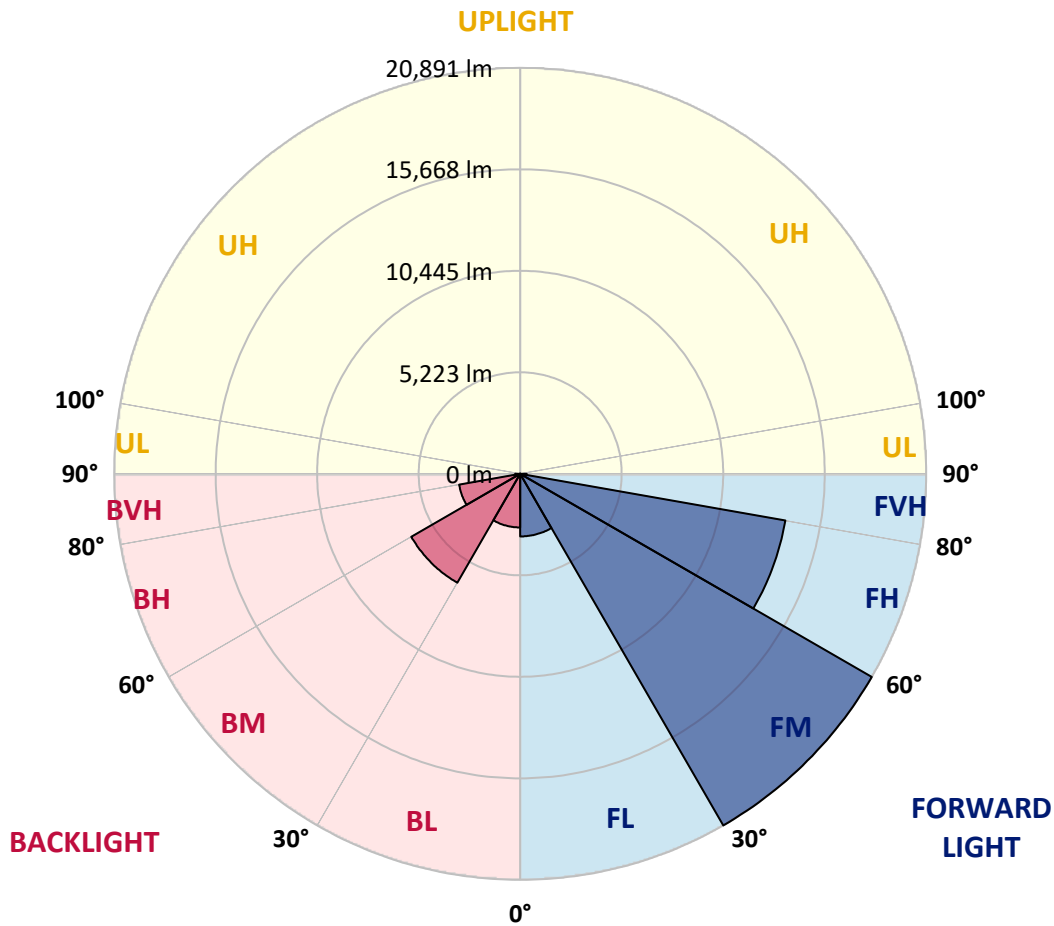
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3221.4	6.3			
FM (30°-60°)	20890.8	41.0			
FH (60°-80°)	13857.5	27.2			G5
FVH (80°-90°)	333.6	0.7			G3/500
BL (0°-30°)	2761.2	5.4	B4/5000		
BM (30°-60°)	6469.9	12.7	B4/8500		
BH (60°-80°)	3189.9	6.3	B4/5000		G4/5000
BVH (80°-90°)	254.8	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2
2.5°	5595.3	5627.5	5619.4	5606.0	5603.4	5608.7	5616.7	5624.8	5622.1	5635.5
5°	5579.2	5611.4	5608.7	5608.7	5619.4	5640.9	5654.2	5667.6	5654.2	5670.3
7.5°	5590.0	5614.1	5624.8	5635.5	5662.3	5702.5	5734.6	5764.1	5748.0	5766.7
10°	5726.6	5745.3	5756.0	5756.0	5774.8	5820.3	5852.5	5906.0	5892.6	5922.1
12.5°	5975.7	5994.4	5994.4	5983.7	5997.1	6026.6	6037.3	6096.2	6072.1	6120.3
15°	6281.0	6318.5	6289.0	6270.3	6275.6	6305.1	6302.4	6348.0	6323.9	6364.0
17.5°	6618.5	6666.7	6618.5	6615.8	6605.1	6637.2	6639.9	6680.1	6637.2	6666.7
20°	7017.6	7084.5	7044.4	7057.8	7033.7	7047.0	7060.4	7119.4	7052.4	7073.8
22.5°	7580.1	7660.4	7617.6	7668.5	7652.4	7641.7	7639.0	7743.4	7639.0	7647.0
25°	8399.7	8496.1	8421.1	8490.7	8490.7	8525.6	8565.7	8699.7	8525.6	8474.7
27.5°	9610.3	9706.8	9559.5	9602.3	9588.9	9674.6	9631.8	9963.9	9776.4	9693.4
30°	11067.4	11238.8	10960.3	10949.6	10936.2	11072.8	11134.4	11354.0	11163.9	11080.8
32.5°	12642.4	12821.8	12489.7	12393.3	12342.4	12425.4	12374.5	12551.3	12420.1	12291.5
35°	14308.4	14485.2	14169.1	13981.6	13778.0	13603.9	13421.8	13467.3	13344.1	13148.6
37.5°	15883.3	16207.4	15872.6	15671.7	15296.7	14956.6	14447.7	14236.1	14120.9	13941.4
40°	17487.7	17672.5	17418.1	17246.7	16839.5	16306.5	15492.3	15045.0	14889.6	14715.5
42.5°	18668.9	18845.7	18709.1	18591.2	18272.5	17653.8	16601.1	16041.3	15816.4	15620.8
45°	19606.4	19737.6	19651.9	19694.8	19558.2	18958.2	17750.2	17110.1	16877.0	16638.6
47.5°	19984.0	20123.3	20259.9	20514.4	20747.4	20305.5	18985.0	18267.1	18020.7	17777.0
50°	19941.2	20083.1	20479.6	21020.6	21743.8	21596.5	20286.7	19499.2	19271.6	18993.0
52.5°	19598.3	19759.1	20268.0	21167.9	22319.7	22563.4	21612.6	20771.5	20557.2	20225.1
55°	18698.4	18794.8	19558.2	20833.1	22456.3	23238.4	22911.6	22126.8	21912.5	21449.2
57.5°	17029.7	17169.0	18280.5	19930.5	22113.4	23696.4	24052.6	23551.8	23345.5	22678.6
60°	14852.1	15074.4	16346.7	18414.5	21240.2	23693.7	25089.2	24952.6	24781.2	23889.3
62.5°	12387.9	12645.0	13869.1	16271.7	19713.5	23021.4	25737.4	26125.8	26037.4	25006.2
65°	9513.9	9690.7	10909.4	13499.5	17337.7	21577.7	25812.4	26926.6	26942.7	25855.2
67.5°	6334.6	6843.5	7901.5	10130.0	14155.7	19218.0	25153.5	27057.9	27213.2	26147.2
70°	3091.0	3760.6	4797.1	6583.7	10130.0	15599.4	23431.2	25981.1	26326.7	25295.4
72.5°	1283.0	1499.9	2065.1	3249.0	5815.0	10526.4	19970.7	23061.6	23701.8	22413.4
75°	865.1	937.5	1181.2	1666.0	2649.0	5190.9	14402.1	17195.8	18227.0	16927.9
77.5°	666.9	712.5	859.8	1165.1	1574.9	1963.3	7708.6	10363.0	10896.0	10087.1
80°	525.0	559.8	642.8	849.1	1116.9	1050.0	2627.6	4695.4	5003.4	4197.2
82.5°	455.3	468.7	460.7	575.9	741.9	613.4	862.5	1733.0	1912.4	1387.4
85°	329.5	367.0	383.0	356.2	393.7	310.7	353.6	613.4	675.0	602.7
87.5°	133.9	198.2	243.7	230.3	144.6	88.4	109.8	179.5	206.2	225.0
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°
5654.2	0°	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2	5654.2
5656.9	2.5°	5659.6	5678.4	5691.7	5707.8	5718.5	5734.6	5766.7	5785.5	5788.2	5801.6
5699.8	5°	5710.5	5737.3	5766.7	5809.6	5857.8	5898.0	5959.6	6002.4	6018.5	6031.9
5804.2	7.5°	5820.3	5857.8	5911.4	5986.4	6056.0	6109.6	6184.6	6235.5	6286.4	6305.1
5970.3	10°	5983.7	6037.3	6114.9	6216.7	6291.7	6361.4	6439.0	6481.9	6532.8	6554.2
6168.5	12.5°	6187.3	6243.5	6345.3	6487.2	6556.9	6605.1	6631.9	6621.2	6631.9	6650.6
6406.9	15°	6420.3	6481.9	6597.1	6749.7	6798.0	6755.1	6696.2	6642.6	6634.6	6639.9
6696.2	17.5°	6696.2	6741.7	6875.6	7004.2	6969.4	6792.6	6664.0	6578.3	6535.5	6522.1
7065.8	20°	7081.9	7081.9	7191.7	7272.0	7039.0	6739.0	6538.1	6398.9	6310.5	6273.0
7569.3	22.5°	7550.6	7507.7	7577.4	7521.1	7025.6	6589.0	6310.5	6069.4	5935.5	5881.9
8273.8	25°	8145.2	8094.3	8075.6	7727.4	6929.2	6350.6	5898.0	5606.0	5488.2	5458.7
9288.9	27.5°	9042.5	8913.9	8670.2	7839.9	6752.4	5975.7	5415.9	5145.3	5078.4	5081.1
10593.3	30°	10237.1	9980.0	9382.7	7858.6	6463.1	5445.3	4923.0	4730.2	4698.0	4711.4
11688.8	32.5°	11343.3	11099.6	10111.2	7772.9	6018.5	4925.7	4481.1	4352.5	4304.3	4320.4
12524.5	35°	12211.1	12144.2	10786.2	7652.4	5472.1	4438.2	4084.7	3974.8	3881.1	3859.7
13312.0	37.5°	13030.7	13004.0	11292.4	7483.6	4931.1	4092.7	3765.9	3621.3	3484.7	3409.7
14182.5	40°	13930.7	13903.9	11624.5	7223.8	4451.6	3792.7	3479.3	3289.2	3120.4	2983.8
15168.2	42.5°	14943.2	14785.1	11782.6	6851.5	4044.5	3538.3	3246.3	2989.2	2766.9	2641.0
16282.4	45°	16049.4	15693.1	11779.9	6377.4	3701.6	3305.2	2997.2	2632.9	2426.7	2308.8
17426.1	47.5°	17222.5	16561.0	11635.3	5852.5	3369.5	3048.1	2611.5	2332.9	2196.3	2124.0
18668.9	50°	18433.2	17372.5	11388.8	5249.8	3029.3	2756.1	2370.4	2180.3	2075.8	2008.9
19901.0	52.5°	19571.6	18109.1	11091.5	4566.8	2683.8	2472.2	2263.3	2116.0	2006.2	1931.2
21095.6	55°	20629.6	18743.9	10671.0	3867.7	2402.6	2282.1	2212.4	2089.2	1963.3	1874.9
22309.0	57.5°	21569.7	19156.4	9945.1	3211.5	2201.7	2150.8	2158.8	2043.7	1899.0	1824.0
23503.6	60°	22351.8	19459.1	8871.1	2603.5	2038.3	2022.2	2075.8	1958.0	1789.2	1703.5
24513.3	62.5°	22820.5	19453.7	7553.3	2132.1	1899.0	1904.4	1966.0	1850.8	1679.4	1599.0
25041.0	65°	22780.4	18976.9	6106.9	1824.0	1765.1	1770.5	1850.8	1733.0	1588.3	1540.1
24775.8	67.5°	21974.1	17814.5	4684.6	1623.2	1617.8	1641.9	1735.6	1652.6	1532.1	1526.7
23195.5	70°	19791.2	15401.2	3374.9	1462.4	1465.1	1499.9	1623.2	1601.7	1502.6	1513.3
19501.9	72.5°	15869.9	11742.4	2266.0	1293.7	1296.4	1352.6	1516.0	1561.5	1473.2	1615.1
13837.0	75°	10569.2	7322.9	1457.1	1114.2	1116.9	1189.2	1422.3	1483.9	1392.8	1609.8
7199.7	77.5°	5078.4	3291.8	1055.3	937.5	937.5	1004.4	1229.4	1328.5	1186.6	1250.8
2314.2	80°	1754.4	1237.5	830.3	755.3	739.3	784.8	1036.6	1151.7	1023.2	942.8
755.3	82.5°	691.0	642.8	666.9	586.6	533.0	562.5	806.2	950.9	752.6	680.3
425.9	85°	396.4	417.8	471.4	388.4	308.0	345.5	591.9	683.0	567.8	500.9
139.3	87.5°	107.1	147.3	217.0	200.9	139.3	147.3	281.2	377.7	326.8	251.8
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>
5654.2
5798.9
6029.2
6307.8
6564.9
6656.0
6658.7
6540.8
6264.9
5873.9
5464.1
5089.1
4757.0
4341.8
3875.7
3412.4
2997.2
2649.0
2303.5
2108.0
1984.7
1899.0
1840.1
1775.8
1666.0
1574.9
1537.4
1534.8
1510.7
1636.5
1623.2
1146.4
883.9
677.7
511.6
259.8
0.0

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