

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: P943169

Luminaire Tested: **GALN-SB7C-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52641 lumens
Efficiency: N/A
Efficacy: 150.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

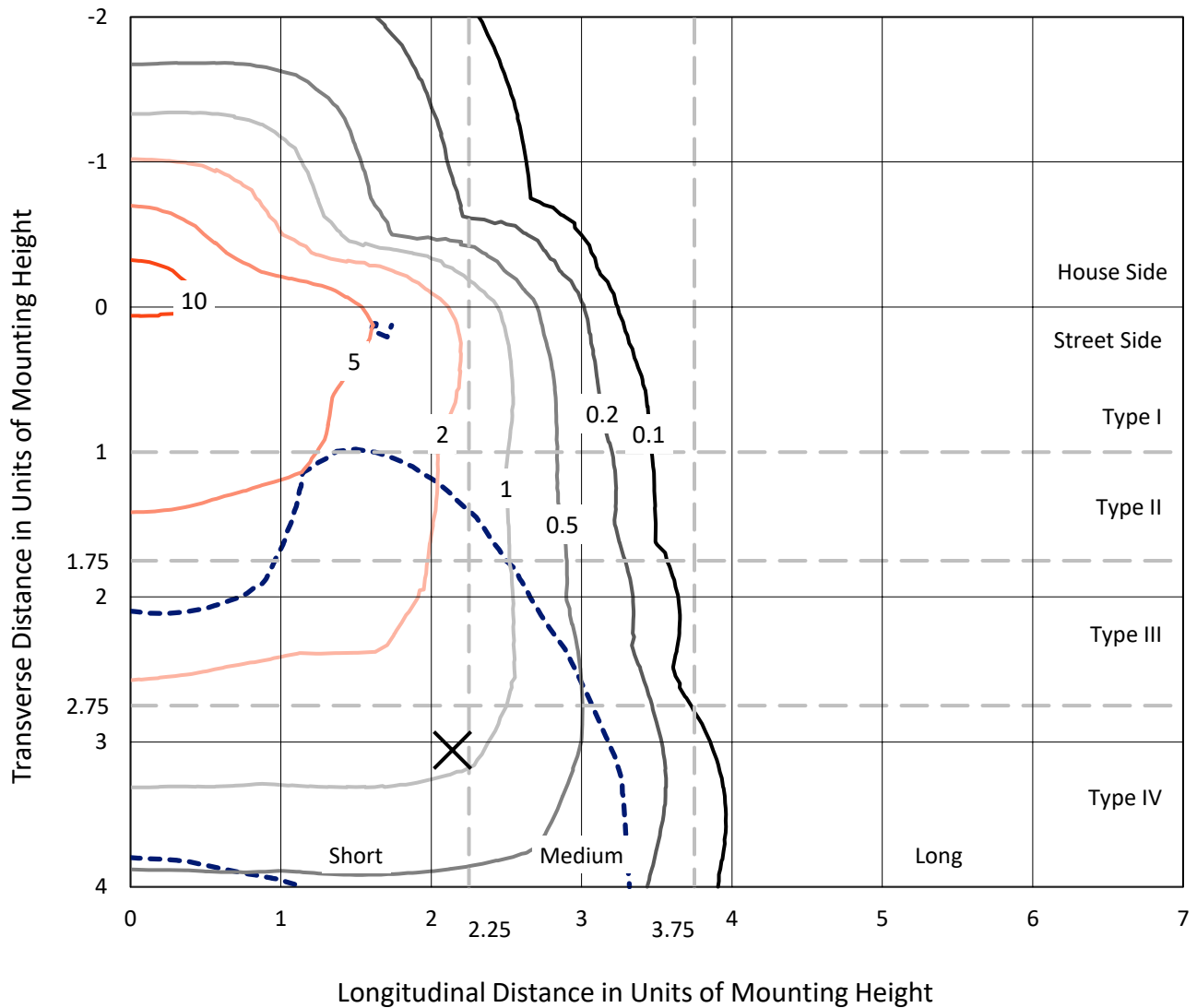
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

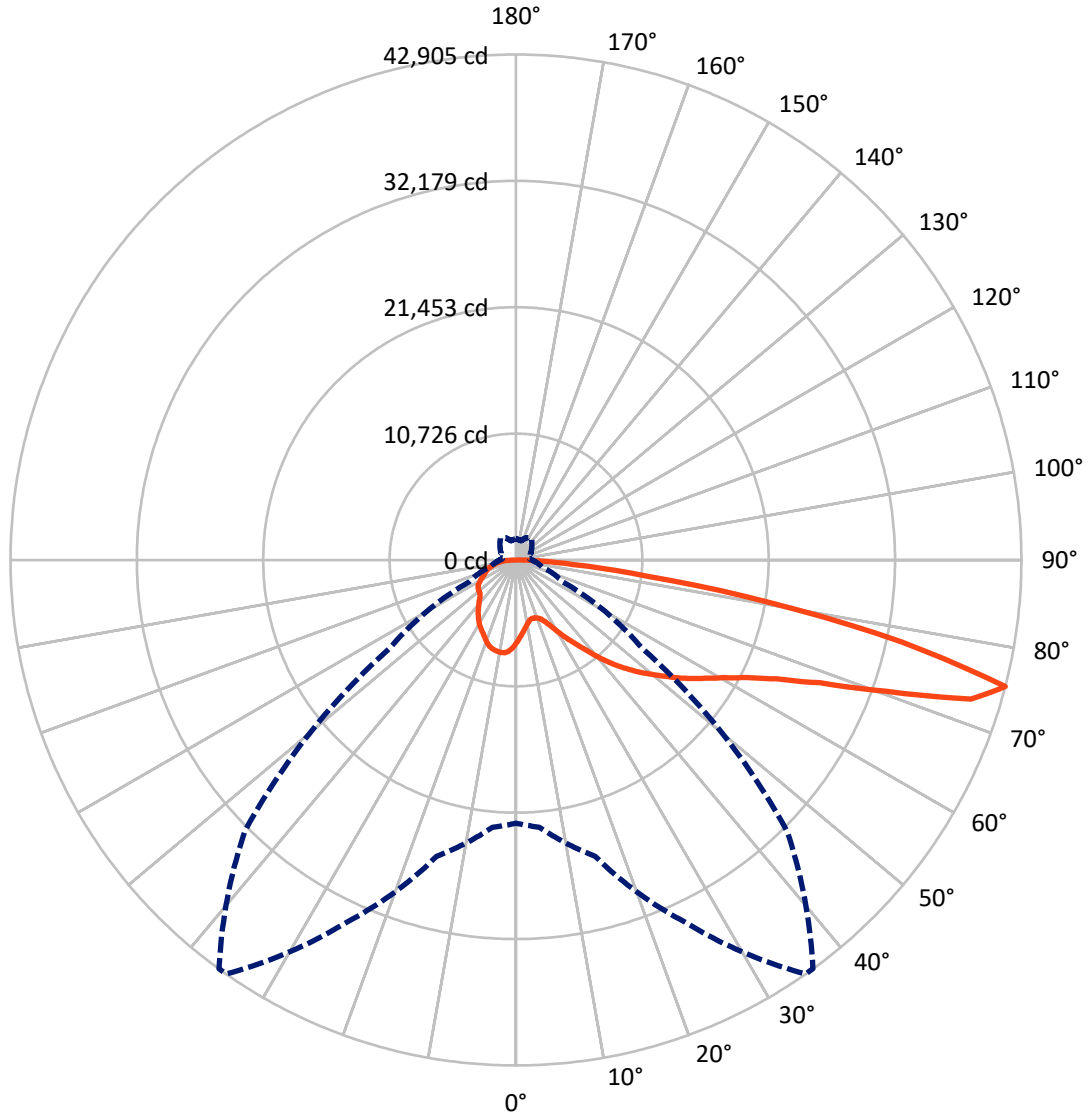
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12527.2	0.0	12527.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	40113.8	0.0	40113.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	52641.0	0.0	52641.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	664.2	1.3
10°-20°	1915.7	3.6
20°-30°	3217.0	6.1
30°-40°	4999.7	9.5
40°-50°	7420.8	14.1
50°-60°	10244.9	19.5
60°-70°	12429.4	23.6
70°-80°	10271.9	19.5
80°-90°	1477.4	2.8
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°	52641.0	100.0
0°-180°	52641.0	100.0

Coefficient of Utilization



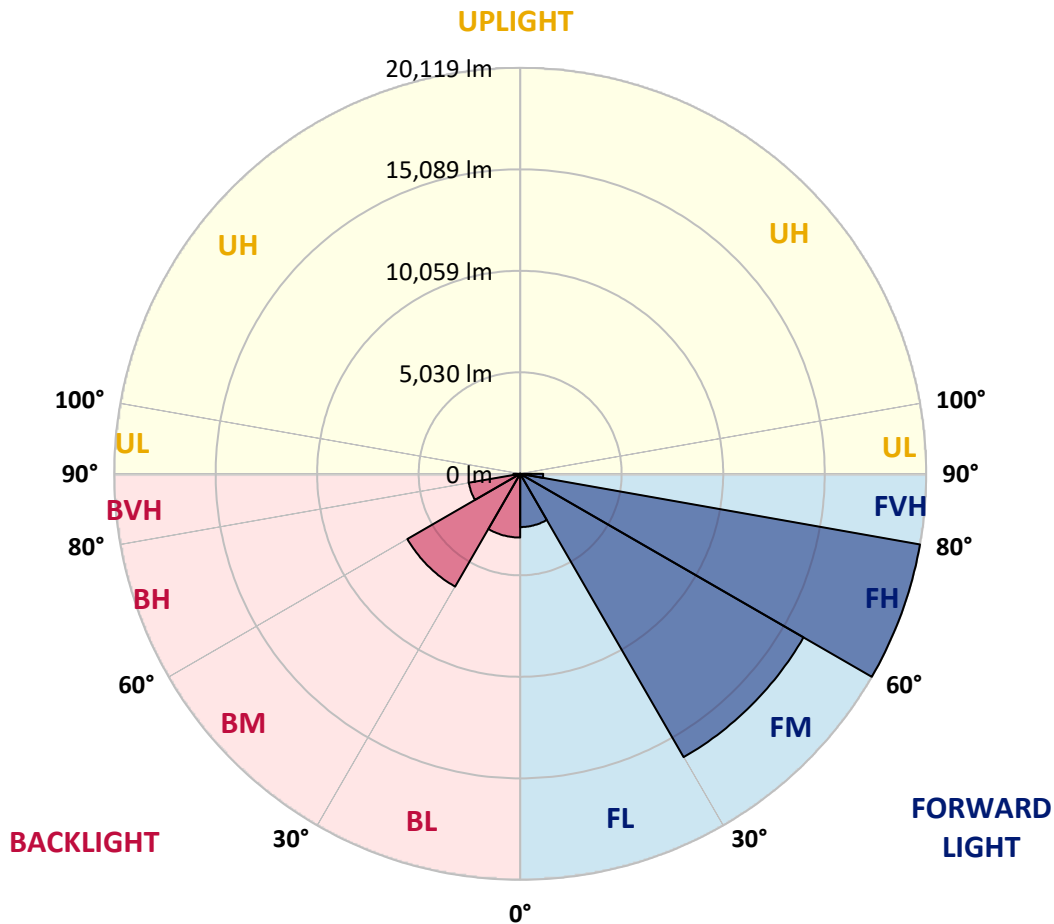
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2639.8	5.0			
FM (30°-60°)	16210.6	30.8			
FH (60°-80°)	20118.6	38.2			G5
FVH (80°-90°)	1144.7	2.2			G5
BL (0°-30°)	3157.0	6.0	B4/5000		
BM (30°-60°)	6454.8	12.3	B4/8500		
BH (60°-80°)	2582.7	4.9	B4/5000		G4/5000
BVH (80°-90°)	332.7	0.6			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	7014.8	7014.8	7014.8	7014.8	7014.8	7014.8	7014.8	7014.8	7014.8	7014.8
2.5°	6468.4	6508.2	6525.3	6516.8	6559.4	6553.8	6613.5	6687.5	6790.0	6889.6
5°	5970.4	6013.1	6050.1	6084.2	6166.7	6192.3	6286.3	6428.5	6616.4	6807.0
7.5°	5506.5	5543.5	5600.4	5663.0	5802.5	5828.1	5984.6	6206.6	6468.4	6747.3
10°	5128.0	5165.0	5224.8	5295.9	5469.5	5500.8	5700.0	5996.0	6337.5	6690.4
12.5°	4965.8	4977.2	5011.4	5082.5	5233.3	5253.3	5472.4	5811.0	6209.4	6647.7
15°	4957.3	4980.1	4982.9	5019.9	5145.1	5153.7	5355.7	5691.5	6129.7	6639.1
17.5°	5042.7	5059.7	5034.1	5056.9	5162.2	5176.4	5335.8	5634.6	6104.1	6676.1
20°	5270.3	5284.6	5207.7	5176.4	5253.3	5264.6	5421.2	5671.6	6129.7	6753.0
22.5°	5754.1	5762.6	5574.8	5446.8	5452.5	5458.1	5594.7	5822.4	6229.3	6892.4
25°	6508.2	6502.5	6203.7	5956.2	5813.9	5782.6	5873.6	6067.1	6397.2	7077.4
27.5°	7390.4	7347.7	7048.9	6679.0	6368.8	6323.3	6303.3	6385.9	6636.3	7322.1
30°	8386.4	8346.6	8025.0	7541.2	7111.5	7037.5	6849.7	6807.0	6992.0	7655.1
32.5°	9479.2	9453.6	9069.4	8483.2	7908.3	7823.0	7507.1	7393.3	7538.4	8158.8
35°	10395.5	10372.8	10054.0	9450.7	8747.8	8642.5	8321.0	8192.9	8266.9	8804.7
37.5°	11223.6	11212.2	10939.1	10463.8	9738.2	9610.1	9248.7	9206.0	9191.8	9655.6
40°	11992.0	11963.5	11679.0	11428.5	10890.7	10774.0	10455.3	10418.3	10310.1	10702.9
42.5°	12842.9	12768.9	12356.2	12239.6	12094.4	11997.7	11807.0	11812.7	11573.7	11883.8
45°	13537.2	13494.5	13070.5	13002.2	13158.7	13118.9	13284.0	13326.6	12862.8	13121.7
47.5°	14282.8	14243.0	13884.4	13836.0	14260.0	14271.4	14854.8	14869.0	14120.6	14408.0
50°	15202.0	15145.1	14789.4	14849.1	15324.4	15367.0	16434.2	16337.4	15278.8	15714.2
52.5°	15808.1	15842.3	15765.4	15862.2	16511.0	16550.9	17988.0	17740.4	16425.7	17003.3
55°	16254.9	16323.2	16562.3	16784.2	17763.2	17803.0	19453.5	19075.1	17376.1	18198.6
57.5°	16829.8	16733.0	17179.8	17612.3	18952.7	19058.0	20879.3	20361.3	18218.5	19228.7
60°	17655.0	17586.7	17933.9	18574.2	20284.5	20452.4	22387.5	21519.5	18836.0	20045.5
62.5°	19328.3	19157.6	19211.6	19778.0	21963.5	22185.5	24089.3	22529.8	19143.3	20364.2
65°	21829.7	21536.6	21263.4	21656.1	24328.3	24547.4	26010.1	23323.8	19029.5	19746.6
67.5°	24980.0	24689.7	24353.9	24723.9	27811.5	27985.1	28380.6	23770.5	18133.1	17367.6
70°	27578.1	27470.0	27871.3	29393.7	33374.9	33380.6	31419.9	23400.6	15677.2	12313.6
72.5°	27233.8	27168.4	29282.7	33989.6	40386.9	40236.0	34297.0	20600.4	10560.6	5554.9
75°	22342.0	22766.0	26041.4	33907.1	42905.3	42885.4	32535.4	13096.1	4368.2	2302.2
77.5°	11980.6	12652.2	16906.6	25034.0	33494.5	33998.2	22874.1	4581.7	1875.3	1474.1
80°	3907.2	4493.4	6738.7	12746.1	21764.3	21670.4	9803.6	1798.5	1283.4	1044.4
82.5°	1659.1	1727.4	3010.8	6018.8	11169.6	10996.0	3121.8	1033.0	902.1	714.3
85°	648.8	725.7	1329.0	2783.1	4837.8	4732.5	1126.9	512.2	577.7	466.7
87.5°	213.4	259.0	475.2	953.3	1505.4	1451.3	276.0	176.4	250.4	213.4
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°
7014.8	0°	7014.8	7014.8	7014.8	7014.8	7014.8	7014.8	7014.8	7014.8	7014.8	7014.8
7034.7	2.5°	7074.5	7120.1	7174.1	7253.8	7322.1	7379.0	7438.8	7475.8	7490.0	7532.7
7046.1	5°	7125.8	7225.4	7359.1	7490.0	7618.1	7694.9	7763.2	7797.4	7828.7	7851.4
7077.4	7.5°	7211.1	7339.2	7549.8	7720.5	7828.7	7891.3	7936.8	7925.4	7936.8	7942.5
7111.5	10°	7285.1	7464.4	7714.8	7877.0	7959.6	7962.4	7951.0	7911.2	7891.3	7894.1
7162.7	12.5°	7373.3	7572.5	7842.9	7979.5	8002.2	7939.6	7891.3	7823.0	7797.4	7786.0
7239.6	15°	7492.9	7720.5	7982.3	8033.5	7976.6	7897.0	7814.4	7703.4	7646.5	7601.0
7370.5	17.5°	7638.0	7888.4	8090.5	8053.5	7931.1	7800.2	7666.4	7498.5	7381.9	7333.5
7549.8	20°	7840.0	8064.9	8173.0	8010.8	7825.8	7626.6	7398.9	7194.1	7085.9	7037.5
7777.4	22.5°	8084.8	8301.0	8252.7	7936.8	7675.0	7356.3	7071.7	6920.9	6866.8	6832.6
8070.5	25°	8377.9	8562.9	8309.6	7828.7	7427.4	6997.7	6778.6	6730.2	6704.6	6679.0
8429.1	27.5°	8759.2	8858.8	8352.3	7669.3	7040.4	6616.4	6536.7	6545.2	6536.7	6494.0
8927.1	30°	9262.9	9243.0	8392.1	7410.3	6596.4	6272.0	6277.7	6314.7	6320.4	6291.9
9621.5	32.5°	9926.0	9723.9	8412.0	7074.5	6172.4	5970.4	5976.1	6015.9	6044.4	5996.0
10529.3	35°	10728.5	10284.5	8380.7	6653.4	5845.2	5683.0	5640.3	5651.7	5660.2	5614.7
11630.6	37.5°	11664.7	10913.4	8241.3	6186.7	5574.8	5401.2	5310.2	5233.3	5187.8	5145.1
12877.0	40°	12692.0	11599.3	7985.2	5731.3	5273.2	5102.4	4965.8	4820.7	4667.0	4610.1
14197.4	42.5°	13767.7	12305.0	7675.0	5295.9	4926.0	4786.5	4641.4	4430.8	4200.3	4083.6
15569.1	45°	14883.3	13027.8	7370.5	4866.2	4570.3	4510.5	4342.6	4089.3	3838.9	3690.9
16943.6	47.5°	15976.0	13710.8	6923.7	4433.7	4237.3	4302.8	4171.9	3938.5	3659.6	3426.3
18306.7	50°	17020.4	14351.1	6192.3	3995.4	3967.0	4240.2	4115.0	3779.2	3460.4	3161.6
19644.2	52.5°	18056.3	14869.0	5256.1	3597.0	3821.8	4223.1	4041.0	3671.0	3281.1	2968.1
20902.0	55°	18935.6	15136.5	4354.0	3255.5	3611.3	4078.0	3952.7	3543.0	3027.9	2694.9
21764.3	57.5°	19436.5	14920.3	3602.7	2919.7	3321.0	3838.9	3801.9	3269.8	2726.2	2470.1
21932.2	60°	19220.2	14043.8	2988.0	2626.6	3045.0	3580.0	3540.1	2999.4	2495.7	2253.8
21032.9	62.5°	18027.8	12373.3	2501.4	2370.5	2794.5	3315.3	3278.3	2791.7	2319.3	2085.9
18645.3	65°	15626.0	10065.4	2122.9	2157.1	2541.3	2996.6	3050.6	2618.1	2179.8	1952.2
14425.1	67.5°	11918.0	7290.8	1827.0	1972.1	2293.7	2683.5	2840.1	2492.9	2063.2	1846.9
8346.6	70°	6792.8	4140.6	1576.5	1792.8	2074.6	2393.3	2677.8	2393.3	1938.0	1758.7
3127.5	72.5°	2575.4	1901.0	1363.1	1613.5	1864.0	2148.5	2498.6	2236.8	1792.8	1659.1
1616.4	75°	1374.5	1158.2	1146.8	1403.0	1622.1	1909.5	2273.8	2083.1	1684.7	1753.0
1118.4	77.5°	936.3	819.6	959.0	1200.9	1357.4	1644.8	2034.7	1849.7	1459.9	1454.2
774.0	80°	648.8	580.5	779.7	967.6	1050.1	1383.0	1775.7	1587.9	1189.5	1109.8
478.1	82.5°	389.9	378.5	583.4	722.8	742.7	1067.2	1471.3	1331.8	973.2	848.0
284.6	85°	213.4	224.8	372.8	424.0	432.6	745.6	1152.5	1030.2	748.4	628.9
102.4	87.5°	59.8	76.8	136.6	167.9	207.7	387.0	685.8	611.8	375.6	261.8
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>
7014.8
7529.8
7857.1
7951.0
7899.8
7780.3
7615.2
7336.3
7031.8
6838.3
6679.0
6502.5
6306.2
6018.8
5646.0
5173.6
4635.7
4097.9
3679.6
3400.7
3136.0
2934.0
2666.5
2436.0
2219.7
2048.9
1915.2
1812.7
1735.9
1636.3
<i>1809.9</i>
1340.3
1061.5
853.7
634.6
261.8
0.0

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