

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: P950285

Luminaire Tested: **GALN-SB4D-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-740-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43726 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

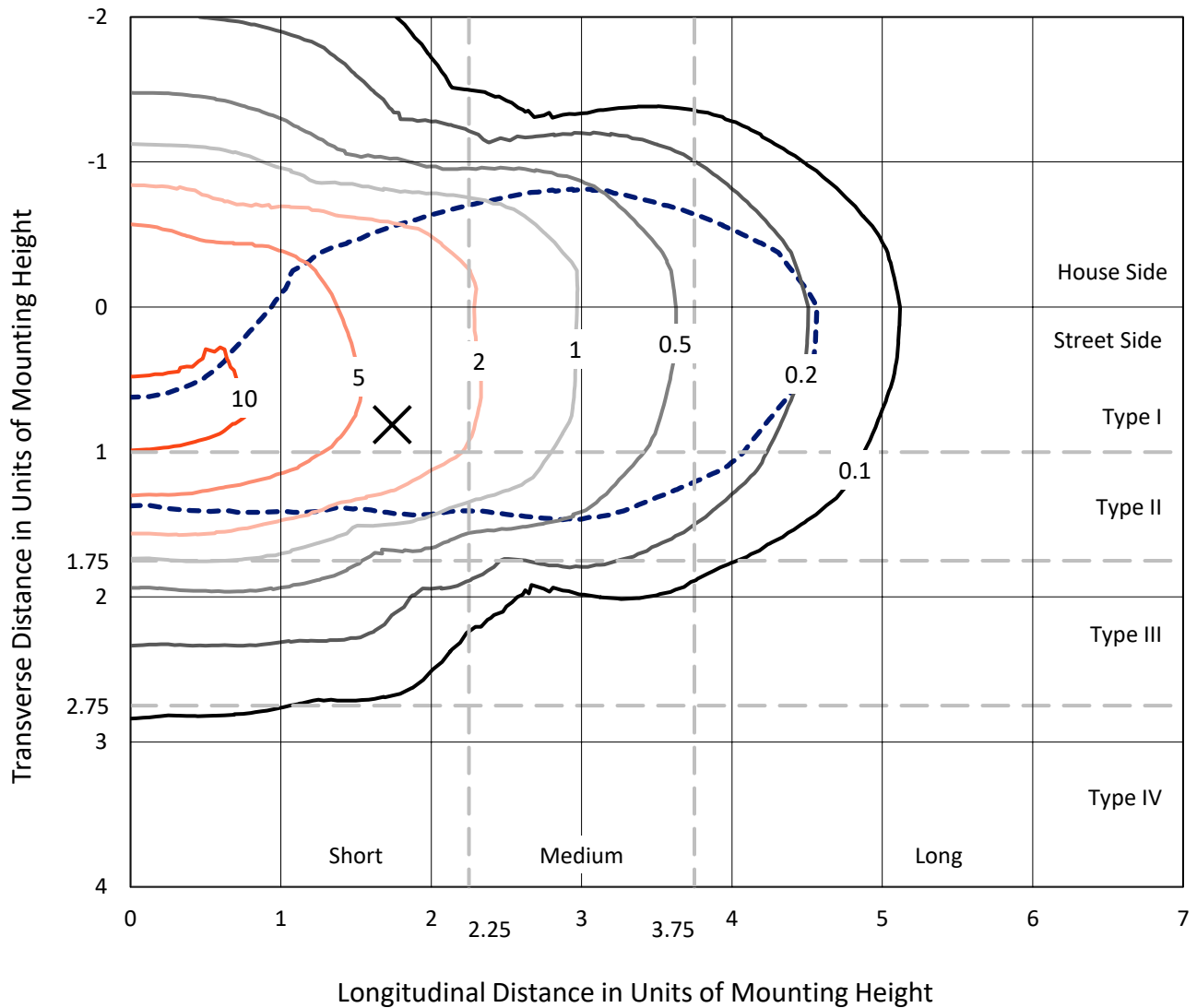
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

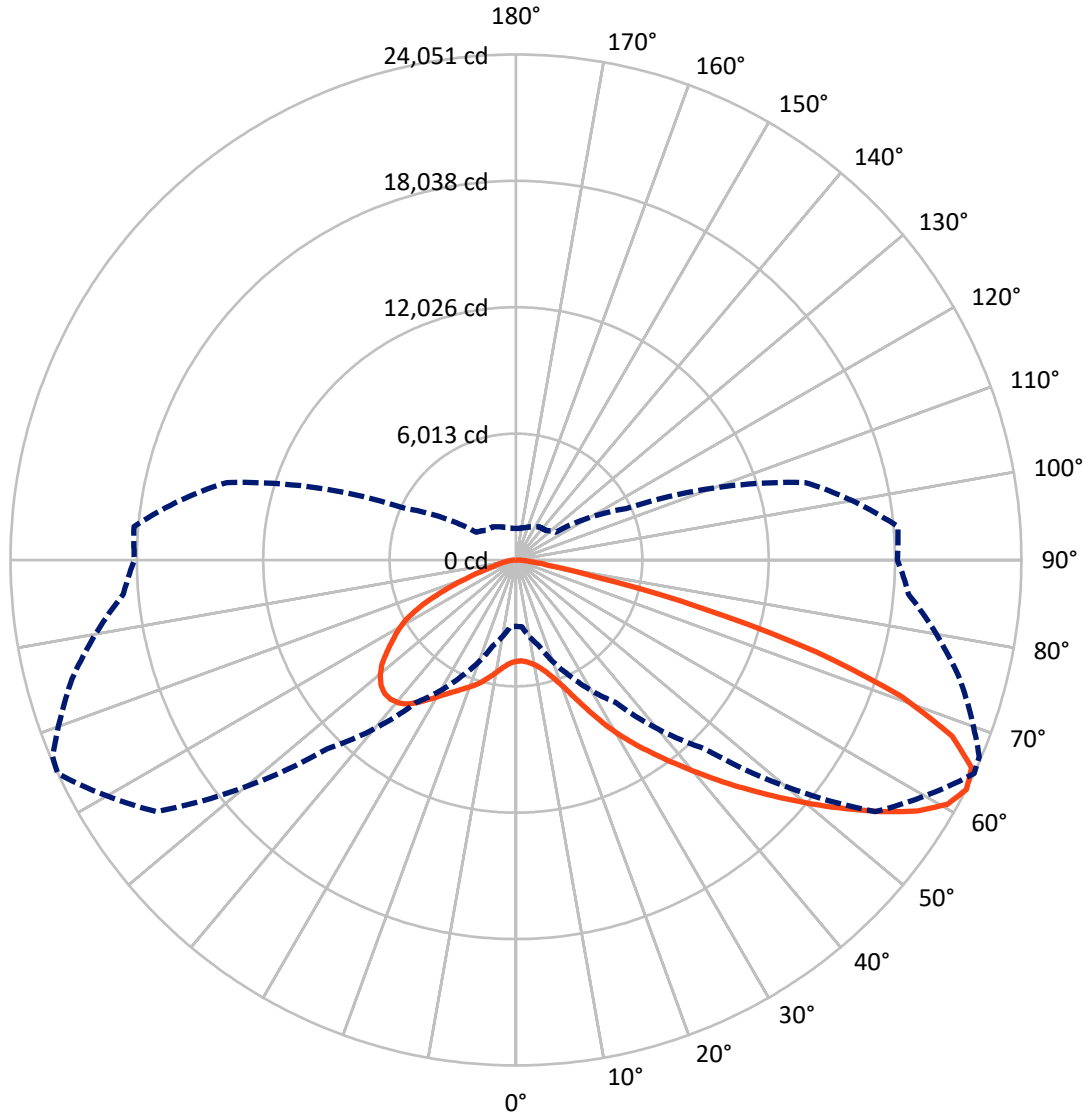
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13798.0	0.0	13798.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	29928.0	0.0	29928.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	43726.0	0.0	43726.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.4	1.1
10°-20°	1629.0	3.7
20°-30°	3303.1	7.6
30°-40°	5715.9	13.1
40°-50°	8649.9	19.8
50°-60°	10141.5	23.2
60°-70°	8502.4	19.4
70°-80°	4694.0	10.7
80°-90°	609.7	1.4
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°	43726.0	100.0
0°-180°	43726.0	100.0



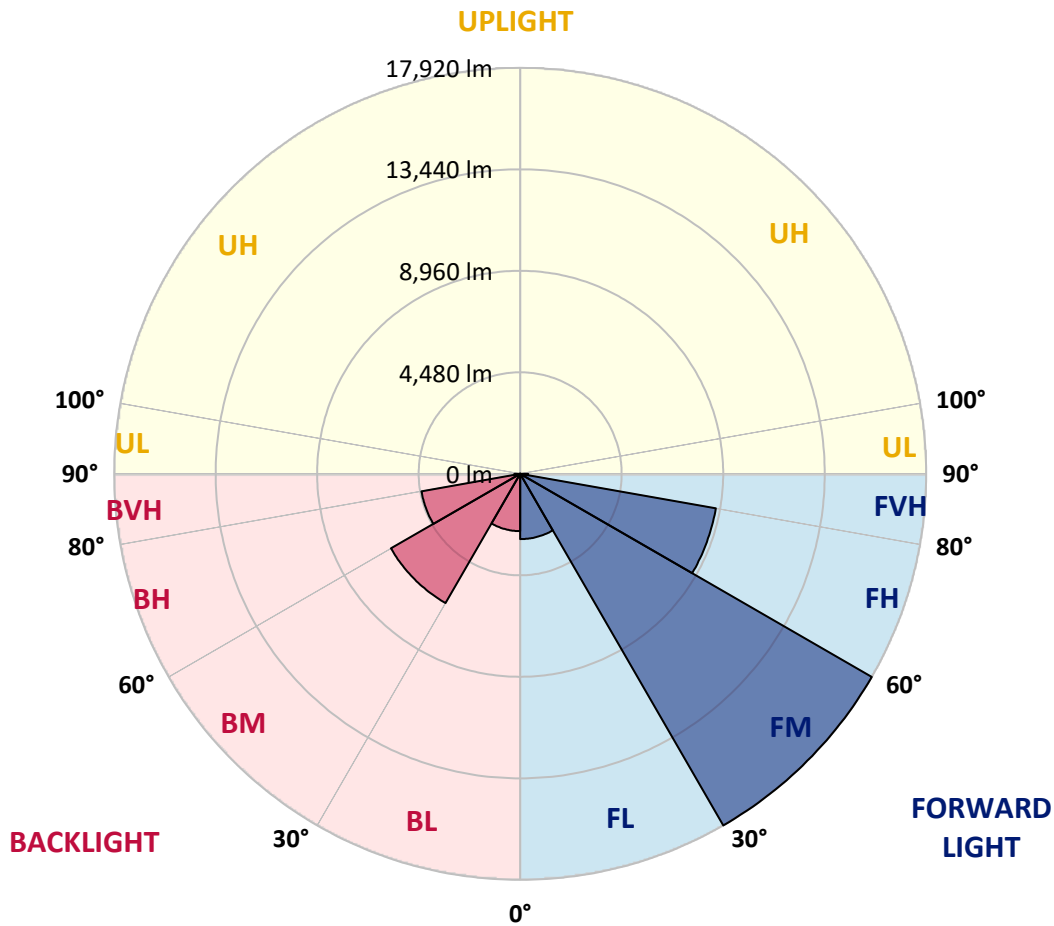
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2882.1	6.6			
FM (30°-60°)	17920.3	41.0			
FH (60°-80°)	8770.2	20.1			G4/12000
FVH (80°-90°)	355.4	0.8			G3/500
BL (0°-30°)	2530.4	5.8	B4/5000		
BM (30°-60°)	6587.0	15.1	B4/8500		
BH (60°-80°)	4426.3	10.1	B4/5000		G4/5000
BVH (80°-90°)	254.4	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4
2.5°	4786.7	4773.0	4784.4	4784.4	4788.9	4786.7	4802.5	4807.1	4813.9	4827.5
5°	4739.0	4736.7	4757.2	4775.3	4793.5	4809.3	4829.8	4859.2	4863.8	4879.7
7.5°	4723.1	4709.5	4741.3	4764.0	4807.1	4845.6	4900.1	4950.0	4970.4	4977.2
10°	4845.6	4823.0	4852.4	4866.1	4902.4	4940.9	5004.4	5083.8	5106.5	5133.7
12.5°	5054.3	5029.4	5072.5	5092.9	5126.9	5161.0	5204.1	5281.2	5292.5	5342.5
15°	5340.2	5310.7	5337.9	5362.9	5419.6	5451.3	5494.4	5569.3	5569.3	5607.9
17.5°	5728.1	5689.5	5710.0	5719.0	5755.3	5803.0	5875.6	5941.4	5975.4	5961.8
20°	6306.6	6258.9	6258.9	6213.6	6200.0	6238.5	6333.8	6424.6	6460.9	6390.5
22.5°	7175.4	7107.4	7068.8	6914.6	6853.3	6857.8	6953.1	7064.3	7093.8	6969.0
25°	8280.2	8173.6	8121.4	7894.6	7756.2	7636.0	7710.8	7853.7	7894.6	7740.3
27.5°	9385.0	9391.8	9341.9	9069.7	8840.6	8620.5	8582.0	8731.7	8774.8	8600.1
30°	10934.4	10773.4	10678.1	10351.4	10024.8	9716.2	9557.4	9618.7	9630.0	9421.3
32.5°	12270.6	12229.8	12025.6	11739.8	11320.1	10836.9	10571.5	10473.9	10455.8	10158.6
35°	13792.8	13770.1	13554.6	13214.3	12760.6	12089.1	11610.5	11331.4	11308.8	10891.3
37.5°	15340.0	15340.0	15129.0	14757.0	14287.4	13448.0	12719.8	12277.4	12204.8	11660.4
40°	16574.1	16499.2	16537.8	16381.3	15843.6	14952.1	13951.6	13309.6	13212.1	12558.7
42.5°	17275.1	17250.1	17481.5	17656.2	17436.1	16723.8	15308.2	14428.0	14291.9	13547.8
45°	17431.6	17404.4	17817.2	18457.0	18765.5	18472.9	16782.8	15605.4	15439.8	14582.3
47.5°	17070.9	17016.4	17622.2	18631.7	19620.8	20135.7	18379.9	16882.6	16642.1	15589.5
50°	15986.5	15934.3	16850.8	18191.6	19908.9	21265.5	20113.0	18236.9	17869.4	16669.4
52.5°	13629.5	13654.4	15090.4	16932.5	19530.0	21968.7	21605.7	19663.9	19221.5	17774.1
55°	10616.8	10671.3	12436.2	14464.3	18014.6	21862.1	22624.3	21133.9	20693.8	18813.1
57.5°	7601.9	7842.4	9496.2	11503.9	15104.1	20172.0	22846.6	22531.3	22104.8	19947.4
60°	4927.3	4970.4	6671.8	8695.4	11501.6	17168.4	22395.2	23590.7	23257.2	21104.4
62.5°	3157.8	3187.3	4224.1	6082.0	8278.0	12701.7	20875.3	24051.2	23949.2	21868.9
65°	2320.7	2298.0	2838.0	4019.9	5576.1	7833.3	17923.9	23828.9	24030.8	22347.6
67.5°	1937.3	1905.6	2171.0	2783.5	4108.4	4448.6	13262.0	22383.9	23123.4	22293.1
70°	1764.9	1737.7	1898.8	2066.7	3205.5	2978.6	6685.4	19459.7	20598.5	21673.8
72.5°	1495.0	1447.3	1667.4	1835.3	2493.1	2284.4	2763.1	14947.5	16335.9	19688.8
75°	1159.2	1127.5	1315.8	1615.2	1873.8	1783.1	1746.8	9076.5	10591.9	15226.6
77.5°	918.8	875.7	1048.1	1259.0	1685.5	1345.3	1272.7	3908.7	5410.5	9720.8
80°	691.9	653.3	796.3	995.9	1295.3	1014.0	823.5	1594.8	2039.4	4925.0
82.5°	492.3	458.2	555.8	730.5	871.1	909.7	505.9	893.8	1005.0	1898.8
85°	315.3	294.9	372.0	458.2	553.5	585.3	308.5	467.3	512.7	782.7
87.5°	172.4	140.7	199.6	213.2	256.3	233.7	147.5	170.1	183.8	283.6
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°
4818.4	0°	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4	4818.4
4827.5	2.5°	4836.6	4843.4	4866.1	4872.9	4888.7	4909.2	4922.8	4936.4	4936.4	4950.0
4900.1	5°	4902.4	4918.2	4965.9	4990.8	5031.7	5072.5	5097.4	5126.9	5145.1	5154.2
5015.8	7.5°	5029.4	5054.3	5122.4	5165.5	5235.8	5292.5	5331.1	5371.9	5381.0	5406.0
5176.8	10°	5201.8	5231.3	5308.4	5390.1	5474.0	5544.4	5580.7	5610.1	5621.5	5626.0
5383.3	12.5°	5399.2	5442.3	5542.1	5641.9	5730.4	5791.6	5800.7	5793.9	5762.1	5734.9
5637.4	15°	5641.9	5680.5	5791.6	5900.5	5986.7	5998.1	5941.4	5905.1	5866.5	5859.7
5920.9	17.5°	5932.3	5952.7	6054.8	6161.4	6168.2	6129.6	6045.7	6011.7	5975.4	5950.4
6290.7	20°	6270.3	6263.5	6336.1	6381.5	6333.8	6215.8	6088.8	6032.1	5995.8	5966.3
6744.4	22.5°	6674.1	6621.9	6612.8	6601.5	6474.5	6227.2	6054.8	5982.2	5925.5	5884.6
7377.3	25°	7261.7	7062.0	6923.6	6846.5	6560.7	6165.9	5945.9	5784.8	5678.2	5607.9
8150.9	27.5°	7996.7	7660.9	7311.6	7123.3	6560.7	6041.2	5682.7	5421.9	5247.2	5174.6
8899.6	30°	8697.6	8346.0	7831.1	7456.7	6544.8	5837.0	5258.5	4895.5	4691.4	4618.8
9539.3	32.5°	9296.5	8913.2	8382.3	7822.0	6506.2	5505.8	4732.2	4330.7	4133.3	4047.1
10172.2	35°	9852.3	9444.0	8935.8	8223.5	6404.1	5020.3	4153.7	3847.5	3627.4	3489.0
10816.5	37.5°	10421.8	9936.3	9459.9	8586.5	6220.4	4453.2	3709.1	3448.2	3189.6	3003.6
11501.6	40°	11041.1	10460.3	10020.2	8802.0	5918.7	3913.3	3364.3	3126.1	2851.6	2654.2
12291.0	42.5°	11764.7	11088.7	10644.1	8913.2	5505.8	3529.9	3139.7	2906.0	2647.4	2486.3
13137.2	45°	12520.2	11780.6	11213.5	8910.9	5045.3	3350.7	3067.1	2835.7	2549.9	2382.0
14006.1	47.5°	13311.9	12504.3	11705.8	8765.7	4646.0	3375.6	3026.3	2683.7	2368.4	2205.0
14884.0	50°	14105.9	13296.0	12182.2	8493.5	4475.9	3321.2	2874.3	2470.5	2098.4	1951.0
15707.5	52.5°	14893.1	14137.6	12592.8	8105.6	4303.5	3119.3	2679.2	2193.7	1987.3	1885.2
16558.2	55°	15684.8	14970.2	13039.7	7540.7	3872.4	2883.3	2352.5	2089.3	1898.8	1805.8
17390.8	57.5°	16478.8	15932.1	13463.9	6975.8	3330.2	2593.0	2173.3	1962.3	1810.3	1730.9
18087.2	60°	17304.6	17032.3	13901.7	6456.3	2794.9	2220.9	2041.7	1860.2	1706.0	1617.5
18756.4	62.5°	18155.3	18243.7	14244.3	5787.1	2302.6	1994.1	1923.7	1737.7	1588.0	1504.1
19310.0	65°	19012.8	19412.0	14468.9	4859.2	1867.0	1778.5	1796.7	1603.9	1451.9	1379.3
19716.0	67.5°	19659.3	20253.7	14405.3	3677.3	1531.3	1574.4	1637.9	1463.2	1320.3	1263.6
19650.2	70°	19731.9	20153.9	13779.2	2518.1	1281.7	1374.7	1461.0	1324.8	1177.4	1136.5
18724.7	72.5°	18765.5	18792.7	12034.7	1644.7	1084.4	1206.9	1274.9	1184.2	1041.3	1000.4
16381.3	75°	16231.5	15541.9	8836.0	1084.4	907.4	1036.7	1100.3	1036.7	898.3	907.4
12257.0	77.5°	12297.8	11007.0	5365.1	771.3	757.7	871.1	957.3	912.0	794.0	891.5
6163.7	80°	6336.1	5955.0	2393.3	576.2	598.9	696.4	787.2	728.2	628.4	598.9
1377.0	82.5°	1451.9	1687.8	943.7	412.9	433.3	501.4	601.2	546.7	451.4	381.1
573.9	85°	508.2	555.8	417.4	258.6	254.1	313.1	408.3	365.2	306.3	245.0
242.7	87.5°	161.1	211.0	156.5	104.4	108.9	140.7	188.3	172.4	142.9	93.0
0.0	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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180°
4818.4
4950.0
5158.7
5396.9
5614.7
5734.9
5859.7
5952.7
5968.6
5898.2
5635.1
5210.9
4661.9
4090.2
3534.4
3053.5
2692.8
2518.1
2409.2
2227.7
1960.0
1885.2
1796.7
1717.3
1610.7
1501.8
1377.0
1265.9
1138.8
998.2
875.7
784.9
546.7
376.6
258.6
97.5
0.0

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