

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: P952868

Luminaire Tested: **GALN-SB6C-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952868
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-SB6C-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41354 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

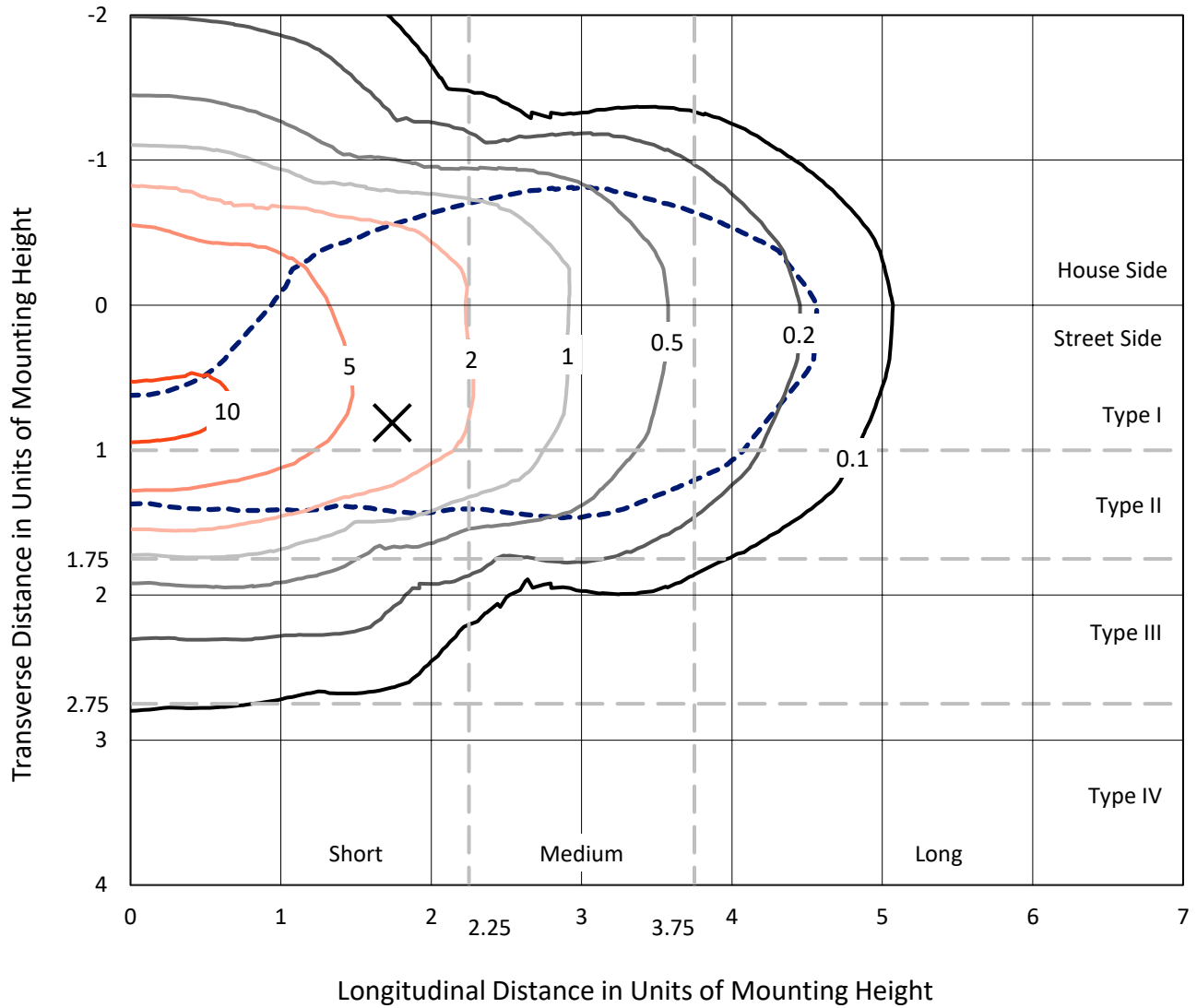
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

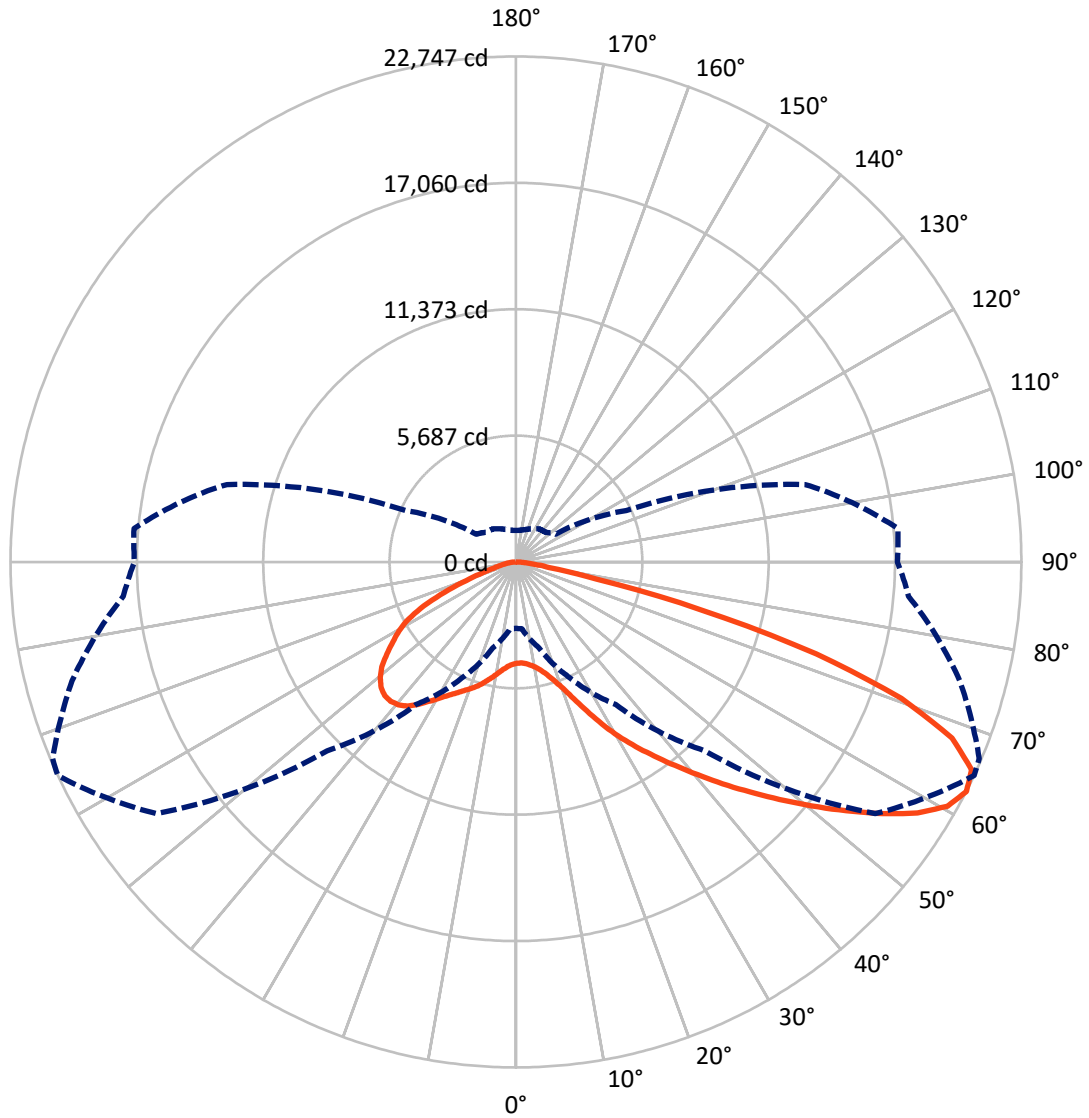
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	13049.5	0.0	13049.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	28304.5	0.0	28304.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	41354.0	0.0	41354.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.3	1.1
10°-20°	1540.7	3.7
20°-30°	3123.9	7.6
30°-40°	5405.8	13.1
40°-50°	8180.7	19.8
50°-60°	9591.3	23.2
60°-70°	8041.2	19.4
70°-80°	4439.4	10.7
80°-90°	576.7	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°	41354.0	100.0
0°-180°	41354.0	100.0



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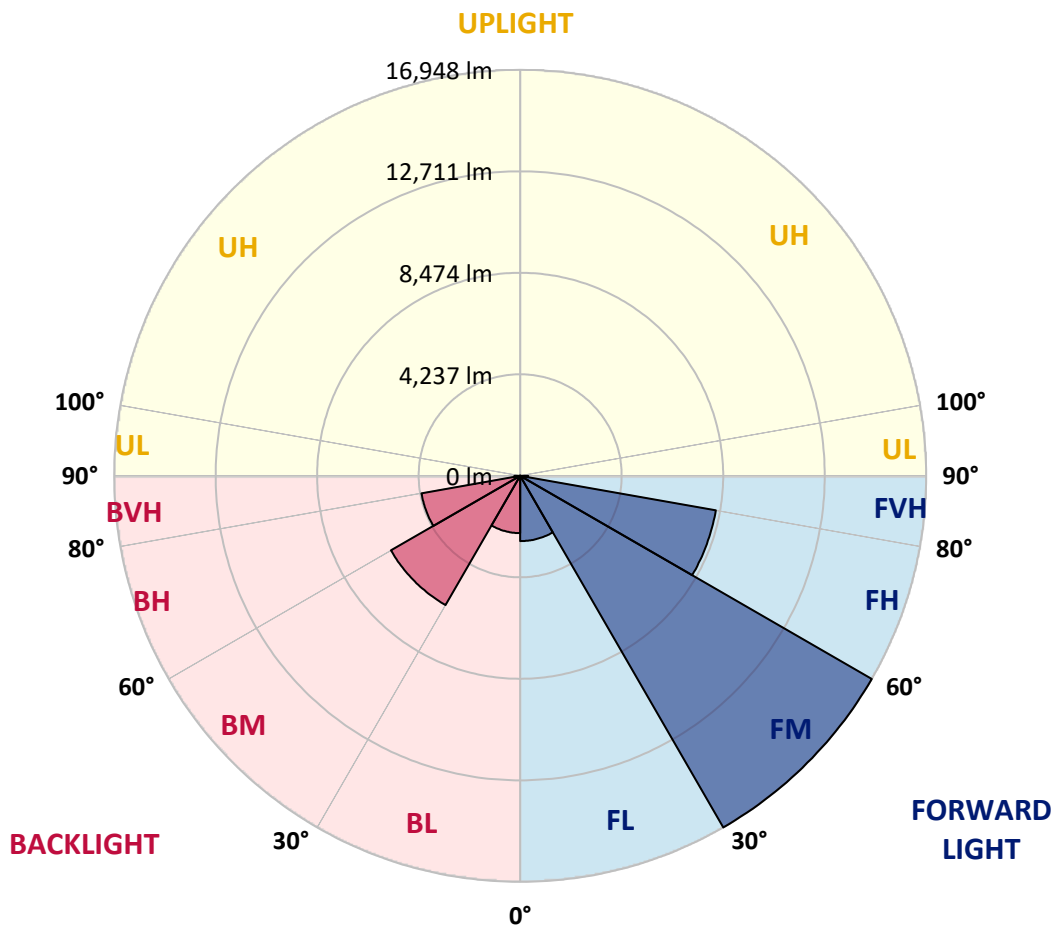
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2725.8	6.6			
FM (30°-60°)	16948.2	41.0			
FH (60°-80°)	8294.4	20.1			G4/12000
FVH (80°-90°)	336.1	0.8			G3/500
BL (0°-30°)	2393.1	5.8	B3/2500		
BM (30°-60°)	6229.7	15.1	B4/8500		
BH (60°-80°)	4186.2	10.1	B4/5000		G4/5000
BVH (80°-90°)	240.6	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°	4557.0	4557.0	4557.0	4557.0	4557.0	4557.0	4557.0	4557.0	4557.0	4557.0
2.5°	4527.0	4514.1	4524.8	4524.8	4529.1	4527.0	4542.0	4546.3	4552.7	4565.6
5°	4481.9	4479.8	4499.1	4516.3	4533.4	4548.4	4567.8	4595.7	4599.9	4615.0
7.5°	4466.9	4454.0	4484.1	4505.5	4546.3	4582.8	4634.3	4681.5	4700.8	4707.2
10°	4582.8	4561.3	4589.2	4602.1	4636.4	4672.9	4733.0	4808.1	4829.5	4855.3
12.5°	4780.2	4756.6	4797.3	4816.6	4848.8	4881.0	4921.8	4994.7	5005.4	5052.6
15°	5050.5	5022.6	5048.3	5072.0	5125.6	5155.6	5196.4	5267.2	5267.2	5303.7
17.5°	5417.4	5380.9	5400.2	5408.8	5443.1	5488.2	5556.8	5619.1	5651.2	5638.4
20°	5964.5	5919.4	5919.4	5876.5	5863.6	5900.1	5990.2	6076.0	6110.4	6043.9
22.5°	6786.2	6721.8	6685.4	6539.5	6481.5	6485.8	6575.9	6681.1	6709.0	6591.0
25°	7831.1	7730.2	7680.9	7466.3	7335.4	7221.7	7292.5	7427.7	7466.3	7320.4
27.5°	8875.9	8882.3	8835.1	8577.7	8361.0	8152.9	8116.4	8258.0	8298.8	8133.6
30°	10341.3	10189.0	10098.8	9789.9	9480.9	9189.2	9039.0	9096.9	9107.6	8910.2
32.5°	11605.0	11566.4	11373.3	11102.9	10706.0	10249.0	9998.0	9905.8	9888.6	9607.5
35°	13044.6	13023.2	12819.3	12497.5	12068.4	11433.3	10980.6	10716.7	10695.3	10300.5
37.5°	14507.8	14507.8	14308.3	13956.4	13512.3	12718.5	12029.8	11611.4	11542.8	11027.8
40°	15675.0	15604.2	15640.7	15492.6	14984.1	14141.0	13194.8	12587.6	12495.4	11877.5
42.5°	16337.9	16314.3	16533.2	16698.4	16490.3	15816.6	14477.8	13645.3	13516.6	12812.9
45°	16486.0	16460.2	16850.7	17455.7	17747.5	17470.8	15872.4	14758.9	14602.2	13791.2
47.5°	16144.9	16093.4	16666.2	17621.0	18556.4	19043.4	17382.8	15966.8	15739.4	14743.8
50°	15119.3	15070.0	15936.7	17204.7	18828.9	20111.9	19022.0	17247.6	16900.1	15765.1
52.5°	12890.1	12913.7	14271.8	16014.0	18470.6	20777.0	20433.7	18597.2	18178.8	16810.0
55°	10040.9	10092.4	11761.6	13679.7	17037.4	20676.1	21397.0	19987.4	19571.2	17792.6
57.5°	7189.6	7417.0	8981.0	10879.8	14284.7	19077.7	21607.3	21309.1	20905.7	18865.3
60°	4660.0	4700.8	6309.9	8223.7	10877.7	16237.1	21180.3	22311.0	21995.6	19959.5
62.5°	2986.5	3014.4	3994.9	5752.1	7828.9	12012.6	19742.8	22746.5	22650.0	20682.6
65°	2194.8	2173.4	2684.0	3801.8	5273.6	7408.4	16951.6	22536.3	22727.2	21135.3
67.5°	1832.3	1802.2	2053.2	2632.5	3885.5	4207.3	12542.6	21169.6	21869.0	21083.8
70°	1669.2	1643.4	1795.8	1954.5	3031.6	2817.0	6322.8	18404.1	19481.1	20498.1
72.5°	1413.9	1368.8	1576.9	1735.7	2357.9	2160.5	2613.2	14136.7	15449.7	18620.8
75°	1096.3	1066.3	1244.4	1527.6	1772.2	1686.4	1652.0	8584.1	10017.3	14400.6
77.5°	868.9	828.2	991.2	1190.7	1594.1	1272.3	1203.6	3696.7	5117.0	9193.4
80°	654.4	617.9	753.1	941.9	1225.1	959.0	778.8	1508.3	1928.8	4657.9
82.5°	465.6	433.4	525.6	690.8	823.9	860.3	478.4	845.3	950.5	1795.8
85°	298.2	278.9	351.9	433.4	523.5	553.5	291.8	442.0	484.9	740.2
87.5°	163.1	133.0	188.8	201.7	242.4	221.0	139.5	160.9	173.8	268.2
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°
4557.0	0°	4557.0	4557.0	4557.0	4557.0	4557.0	4557.0	4557.0	4557.0	4557.0	4557.0
4565.6	2.5°	4574.2	4580.6	4602.1	4608.5	4623.5	4642.9	4655.7	4668.6	4668.6	4681.5
4634.3	5°	4636.4	4651.4	4696.5	4720.1	4758.7	4797.3	4820.9	4848.8	4866.0	4874.6
4743.7	7.5°	4756.6	4780.2	4844.5	4885.3	4951.8	5005.4	5041.9	5080.5	5089.1	5112.7
4896.0	10°	4919.6	4947.5	5020.5	5097.7	5177.1	5243.6	5277.9	5305.8	5316.5	5320.8
5091.3	12.5°	5106.3	5147.0	5241.4	5335.8	5419.5	5477.4	5486.0	5479.6	5449.6	5423.8
5331.6	15°	5335.8	5372.3	5477.4	5580.4	5662.0	5672.7	5619.1	5584.7	5548.3	5541.8
5599.7	17.5°	5610.5	5629.8	5726.3	5827.2	5833.6	5797.1	5717.7	5685.6	5651.2	5627.6
5949.5	20°	5930.1	5923.7	5992.4	6035.3	5990.2	5878.7	5758.5	5704.9	5670.5	5642.7
6378.6	22.5°	6312.0	6262.7	6254.1	6243.4	6123.2	5889.4	5726.3	5657.7	5604.0	5565.4
6977.1	25°	6867.7	6678.9	6548.1	6475.1	6204.8	5831.5	5623.3	5471.0	5370.2	5303.7
7708.8	27.5°	7562.9	7245.3	6914.9	6736.9	6204.8	5713.5	5374.5	5127.7	4962.5	4893.9
8416.8	30°	8225.8	7893.3	7406.2	7052.2	6189.8	5520.4	4973.3	4630.0	4436.9	4368.2
9021.8	32.5°	8792.2	8429.7	7927.6	7397.7	6153.3	5207.1	4475.5	4095.8	3909.1	3827.6
9620.4	35°	9317.9	8931.7	8451.1	7777.4	6056.7	4748.0	3928.4	3638.8	3430.6	3299.8
10229.7	37.5°	9856.4	9397.3	8946.7	8120.7	5882.9	4211.6	3507.9	3261.2	3016.6	2840.6
10877.7	40°	10442.1	9892.9	9476.7	8324.5	5597.6	3701.0	3181.8	2956.5	2696.9	2510.2
11624.3	42.5°	11126.5	10487.2	10066.7	8429.7	5207.1	3338.4	2969.4	2748.4	2503.8	2351.5
12424.6	45°	11841.0	11141.6	10605.2	8427.5	4771.6	3168.9	2900.7	2681.9	2411.5	2252.8
13246.3	47.5°	12589.8	11826.0	11070.8	8290.2	4394.0	3192.5	2862.1	2538.1	2239.9	2085.4
14076.6	50°	13340.7	12574.7	11521.3	8032.7	4233.1	3141.0	2718.3	2336.4	1984.6	1845.1
14855.4	52.5°	14085.2	13370.7	11909.6	7665.9	4070.0	2950.1	2533.8	2074.7	1879.5	1782.9
15660.0	55°	14834.0	14158.1	12332.3	7131.6	3662.4	2726.9	2224.9	1976.0	1795.8	1707.8
16447.4	57.5°	15584.9	15067.8	12733.5	6597.4	3149.6	2452.3	2055.4	1855.9	1712.1	1637.0
17106.0	60°	16365.8	16108.4	13147.6	6106.1	2643.2	2100.4	1930.9	1759.3	1613.4	1529.7
17739.0	62.5°	17170.4	17254.1	13471.6	5473.2	2177.7	1885.9	1819.4	1643.4	1501.8	1422.5
18262.5	65°	17981.4	18359.0	13684.0	4595.7	1765.7	1682.1	1699.2	1516.9	1373.1	1304.5
18646.5	67.5°	18592.9	19155.0	13623.9	3477.8	1448.2	1489.0	1549.0	1383.8	1248.7	1195.0
18584.3	70°	18661.5	19060.6	13031.7	2381.5	1212.2	1300.2	1381.7	1253.0	1113.5	1074.9
17708.9	72.5°	17747.5	17773.3	11381.9	1555.5	1025.5	1141.4	1205.8	1119.9	984.8	946.2
15492.6	75°	15351.0	14698.8	8356.7	1025.5	858.2	980.5	1040.6	980.5	849.6	858.2
11592.1	77.5°	11630.7	10409.9	5074.1	729.5	716.6	823.9	905.4	862.5	750.9	843.2
5829.3	80°	5992.4	5631.9	2263.5	545.0	566.4	658.7	744.5	688.7	594.3	566.4
1302.3	82.5°	1373.1	1596.2	892.5	390.5	409.8	474.2	568.6	517.1	427.0	360.4
542.8	85°	480.6	525.6	394.8	244.6	240.3	296.1	386.2	345.4	289.6	231.7
229.6	87.5°	152.3	199.5	148.0	98.7	103.0	133.0	178.1	163.1	135.2	88.0
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°
4557.0
4681.5
4878.9
5104.1
5310.1
5423.8
5541.8
5629.8
5644.8
5578.3
5329.4
4928.2
4409.0
3868.3
3342.7
2887.8
2546.7
2381.5
2278.5
2106.9
1853.7
1782.9
1699.2
1624.1
1523.3
1420.3
1302.3
1197.2
1077.0
944.0
828.2
742.3
517.1
356.2
244.6
92.3
0.0

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