

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: P956438

Luminaire Tested: **GALN-SB9A-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956438
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-SB9A-830-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37205 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

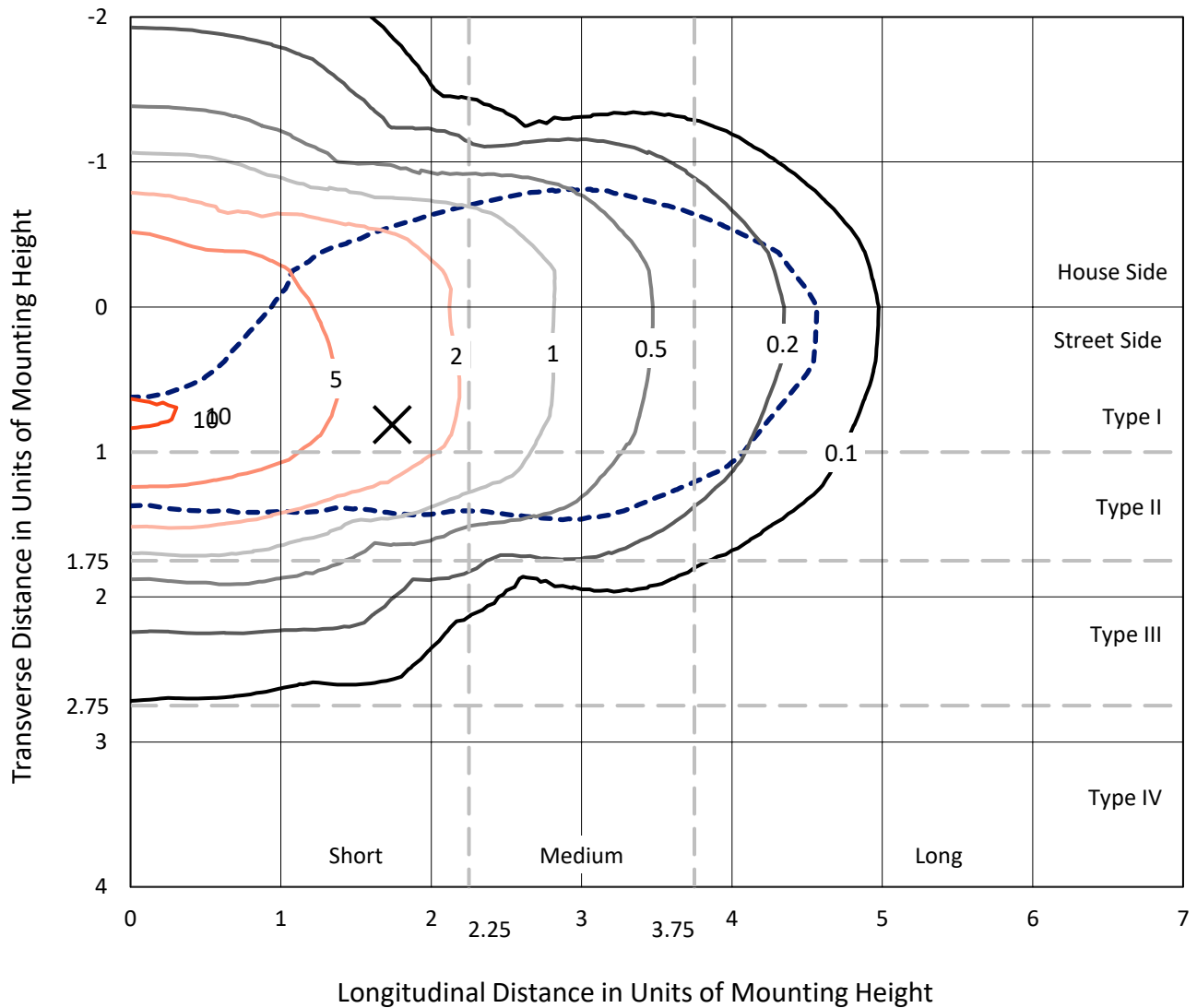
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

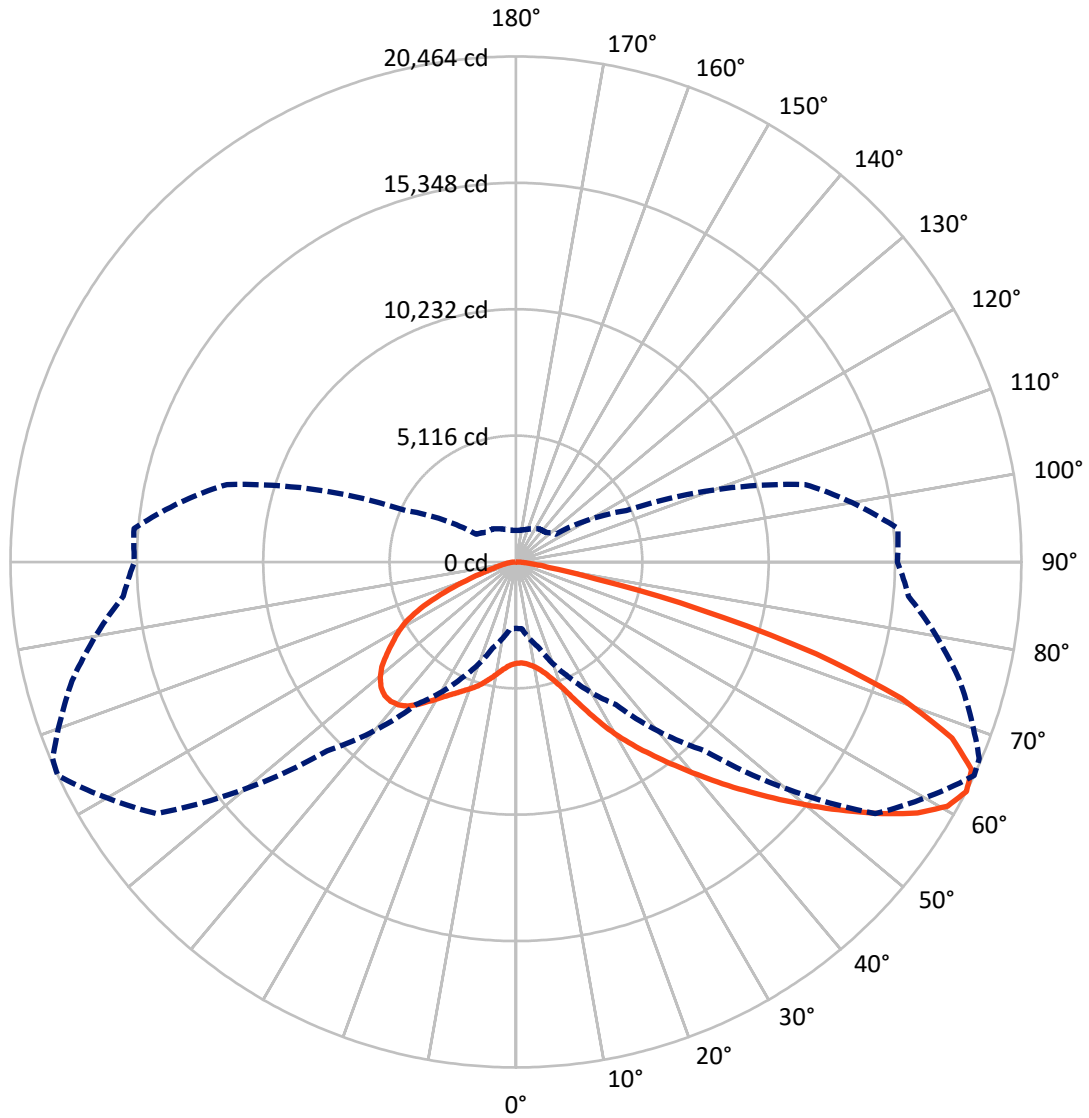
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	11740.3	0.0	11740.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	25464.7	0.0	25464.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	37205.0	0.0	37205.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.8	1.1
10°-20°	1386.1	3.7
20°-30°	2810.5	7.6
30°-40°	4863.5	13.1
40°-50°	7359.9	19.8
50°-60°	8629.1	23.2
60°-70°	7234.4	19.4
70°-80°	3994.0	10.7
80°-90°	518.8	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°	37205.0	100.0
0°-180°	37205.0	100.0



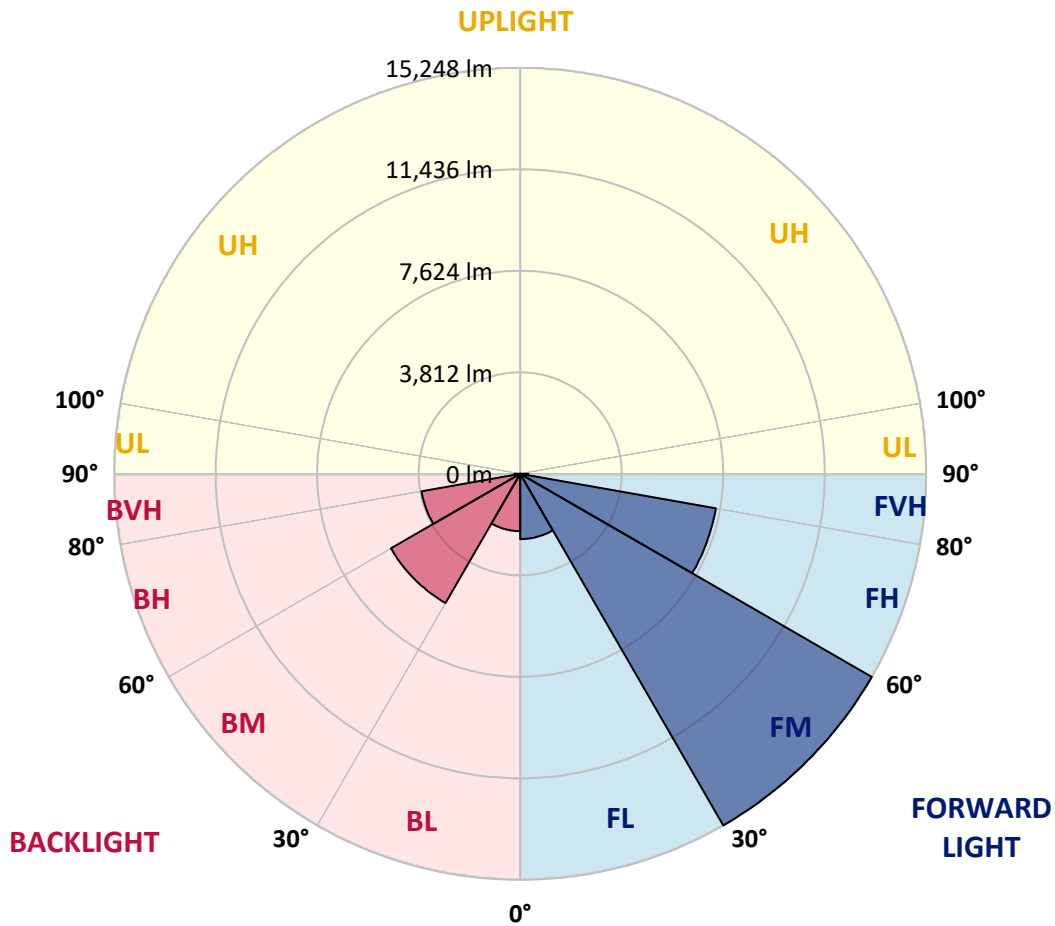
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2452.3	6.6			
FM (30°-60°)	15247.8	41.0			
FH (60°-80°)	7462.2	20.1			G3/7500
FVH (80°-90°)	302.4	0.8			G3/500
BL (0°-30°)	2153.0	5.8	B3/2500		
BM (30°-60°)	5604.6	15.1	B4/8500		
BH (60°-80°)	3766.2	10.1	B4/5000		G4/5000
BVH (80°-90°)	216.4	0.6			G2/225
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°	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8
2.5°	4072.8	4061.2	4070.9	4070.9	4074.7	4072.8	4086.3	4090.2	4096.0	4107.6
5°	4032.3	4030.3	4047.7	4063.2	4078.6	4092.1	4109.5	4134.6	4138.4	4151.9
7.5°	4018.8	4007.2	4034.2	4053.5	4090.2	4123.0	4169.3	4211.8	4229.2	4234.9
10°	4123.0	4103.7	4128.8	4140.4	4171.2	4204.1	4258.1	4325.7	4345.0	4368.1
12.5°	4300.6	4279.3	4316.0	4333.4	4362.3	4391.3	4428.0	4493.6	4503.2	4545.7
15°	4543.8	4518.7	4541.9	4563.1	4611.3	4638.4	4675.0	4738.7	4738.7	4771.6
17.5°	4873.9	4841.0	4858.4	4866.1	4897.0	4937.6	4999.3	5055.3	5084.3	5072.7
20°	5366.1	5325.5	5325.5	5286.9	5275.3	5308.2	5389.2	5466.4	5497.3	5437.5
22.5°	6105.3	6047.4	6014.6	5883.4	5831.3	5835.1	5916.2	6010.8	6035.9	5929.7
25°	7045.4	6954.7	6910.3	6717.2	6599.5	6497.2	6560.9	6682.5	6717.2	6586.0
27.5°	7985.4	7991.2	7948.7	7717.1	7522.1	7334.9	7302.1	7429.5	7466.2	7317.5
30°	9303.8	9166.7	9085.6	8807.7	8529.7	8267.2	8132.1	8184.2	8193.9	8016.3
32.5°	10440.7	10405.9	10232.2	9989.0	9631.9	9220.8	8994.9	8911.9	8896.5	8643.6
35°	11735.9	11716.6	11533.2	11243.6	10857.6	10286.2	9879.0	9641.5	9622.2	9267.1
37.5°	13052.3	13052.3	12872.8	12556.2	12156.7	11442.5	10822.9	10446.5	10384.7	9921.4
40°	14102.3	14038.6	14071.4	13938.3	13480.8	12722.2	11871.0	11324.7	11241.7	10685.8
42.5°	14698.8	14677.5	14874.4	15023.1	14835.8	14229.7	13025.3	12276.3	12160.5	11527.4
45°	14832.0	14808.8	15160.1	15704.4	15966.9	15717.9	14279.9	13278.1	13137.2	12407.6
47.5°	14525.1	14478.7	14994.1	15853.1	16694.6	17132.8	15638.8	14364.8	14160.2	13264.6
50°	13602.4	13558.0	14337.8	15478.6	16939.8	18094.1	17113.5	15517.2	15204.5	14183.4
52.5°	11596.9	11618.1	12840.0	14407.3	16617.4	18692.4	18383.6	16731.3	16354.9	15123.4
55°	9033.5	9079.8	10581.6	12307.2	15328.0	18601.7	19250.3	17982.1	17607.6	16007.5
57.5°	6468.2	6672.8	8080.0	9788.2	12851.5	17163.7	19439.4	19171.1	18808.3	16972.6
60°	4192.5	4229.2	5676.8	7398.6	9786.3	14608.1	19055.3	20072.6	19788.8	17957.0
62.5°	2686.9	2712.0	3594.1	5175.0	7043.4	10807.4	17762.1	20464.4	20377.5	18607.5
65°	1974.6	1955.3	2414.7	3420.4	4744.5	6665.1	15250.8	20275.2	20447.0	19014.8
67.5°	1648.4	1621.4	1847.2	2368.4	3495.7	3785.2	11284.2	19045.7	19674.9	18968.5
70°	1501.7	1478.6	1615.6	1758.4	2727.4	2534.4	5688.4	16557.6	17526.6	18441.5
72.5°	1272.0	1231.5	1418.7	1561.6	2121.3	1943.8	2351.0	12718.4	13899.7	16752.6
75°	986.4	959.3	1119.5	1374.3	1594.4	1517.2	1486.3	7722.9	9012.3	12955.8
77.5°	781.7	745.1	891.8	1071.3	1434.2	1144.6	1082.9	3325.8	4603.6	8271.1
80°	588.7	555.9	677.5	847.4	1102.2	862.8	700.7	1357.0	1735.3	4190.6
82.5°	418.9	389.9	472.9	621.5	741.2	774.0	430.4	760.5	855.1	1615.6
85°	268.3	250.9	316.6	389.9	471.0	498.0	262.5	397.6	436.2	665.9
87.5°	146.7	119.7	169.9	181.4	218.1	198.8	125.5	144.8	156.3	241.3
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°
4099.8	0°	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8	4099.8
4107.6	2.5°	4115.3	4121.1	4140.4	4146.2	4159.7	4177.0	4188.6	4200.2	4200.2	4211.8
4169.3	5°	4171.2	4184.8	4225.3	4246.5	4281.3	4316.0	4337.2	4362.3	4377.8	4385.5
4267.8	7.5°	4279.3	4300.6	4358.5	4395.2	4455.0	4503.2	4536.1	4570.8	4578.5	4599.8
4404.8	10°	4426.0	4451.1	4516.8	4586.3	4657.7	4717.5	4748.4	4773.5	4783.1	4787.0
4580.5	12.5°	4594.0	4630.6	4715.6	4800.5	4875.8	4927.9	4935.6	4929.8	4902.8	4879.6
4796.6	15°	4800.5	4833.3	4927.9	5020.6	5093.9	5103.6	5055.3	5024.4	4991.6	4985.8
5037.9	17.5°	5047.6	5064.9	5151.8	5242.5	5248.3	5215.5	5144.1	5115.1	5084.3	5063.0
5352.6	20°	5335.2	5329.4	5391.2	5429.8	5389.2	5288.9	5180.8	5132.5	5101.6	5076.5
5738.6	22.5°	5678.8	5634.4	5626.6	5617.0	5508.9	5298.5	5151.8	5090.0	5041.8	5007.0
6277.1	25°	6178.7	6008.8	5891.1	5825.5	5582.3	5246.4	5059.2	4922.1	4831.4	4771.6
6935.4	27.5°	6804.1	6518.4	6221.2	6061.0	5582.3	5140.2	4835.3	4613.3	4464.6	4402.9
7572.3	30°	7400.5	7101.4	6663.2	6344.7	5568.7	4966.5	4474.3	4165.5	3991.7	3930.0
8116.7	32.5°	7910.1	7583.9	7132.2	6655.5	5535.9	4684.7	4026.5	3684.8	3516.9	3443.5
8655.2	35°	8383.0	8035.6	7603.2	6997.1	5449.1	4271.6	3534.3	3273.7	3086.5	2968.7
9203.4	37.5°	8867.5	8454.5	8049.1	7306.0	5292.7	3789.1	3155.9	2934.0	2713.9	2555.6
9786.3	40°	9394.5	8900.3	8525.9	7489.3	5036.0	3329.7	2862.5	2659.9	2426.3	2258.4
10458.0	42.5°	10010.2	9435.0	9056.7	7583.9	4684.7	3003.5	2671.5	2472.6	2252.6	2115.5
11178.0	45°	10653.0	10023.7	9541.2	7582.0	4292.9	2851.0	2609.7	2412.8	2169.6	2026.8
11917.3	47.5°	11326.6	10639.5	9960.0	7458.4	3953.1	2872.2	2574.9	2283.5	2015.2	1876.2
12664.3	50°	12002.2	11313.1	10365.4	7226.8	3808.4	2825.9	2445.6	2102.0	1785.5	1660.0
13365.0	52.5°	12672.0	12029.3	10714.8	6896.7	3661.7	2654.1	2279.6	1866.5	1690.9	1604.0
14088.8	55°	13345.7	12737.7	11095.0	6416.1	3294.9	2453.3	2001.7	1777.8	1615.6	1536.5
14797.2	57.5°	14021.3	13556.1	11456.0	5935.5	2833.6	2206.3	1849.2	1669.7	1540.3	1472.8
15389.8	60°	14723.9	14492.2	11828.5	5493.5	2378.1	1889.7	1737.2	1582.8	1451.5	1376.3
15959.2	62.5°	15447.7	15523.0	12120.0	4924.0	1959.2	1696.7	1636.8	1478.6	1351.2	1279.7
16430.2	65°	16177.3	16517.1	12311.1	4134.6	1588.6	1513.3	1528.8	1364.7	1235.4	1173.6
16775.7	67.5°	16727.5	17233.2	12257.0	3128.9	1302.9	1339.6	1393.6	1245.0	1123.4	1075.1
16719.7	70°	16789.2	17148.3	11724.3	2142.6	1090.6	1169.7	1243.1	1127.3	1001.8	967.1
15932.2	72.5°	15966.9	15990.1	10239.9	1399.4	922.7	1026.9	1084.8	1007.6	886.0	851.2
13938.3	75°	13810.9	13224.1	7518.3	922.7	772.1	882.1	936.2	882.1	764.4	772.1
10429.1	77.5°	10463.8	9365.5	4565.0	656.3	644.7	741.2	814.6	776.0	675.6	758.6
5244.5	80°	5391.2	5066.9	2036.4	490.3	509.6	592.6	669.8	619.6	534.7	509.6
1171.7	82.5°	1235.4	1436.1	803.0	351.3	368.7	426.6	511.5	465.2	384.1	324.3
488.4	85°	432.4	472.9	355.2	220.0	216.2	266.4	347.4	310.8	260.6	208.5
206.5	87.5°	137.0	179.5	133.2	88.8	92.7	119.7	160.2	146.7	121.6	79.1
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°
4099.8
4211.8
4389.4
4592.0
4777.3
4879.6
4985.8
5064.9
5078.5
5018.6
4794.7
4433.8
3966.6
3480.2
3007.3
2598.1
2291.2
2142.6
2049.9
1895.5
1667.7
1604.0
1528.8
1461.2
1370.5
1277.8
1171.7
1077.1
969.0
849.3
745.1
667.9
465.2
320.4
220.0
83.0
0.0

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