

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: P955808

Luminaire Tested: **GALN-SB8C-927-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955808
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-SB8C-927-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37355 lumens
Efficiency: N/A
Efficacy: 93.4 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

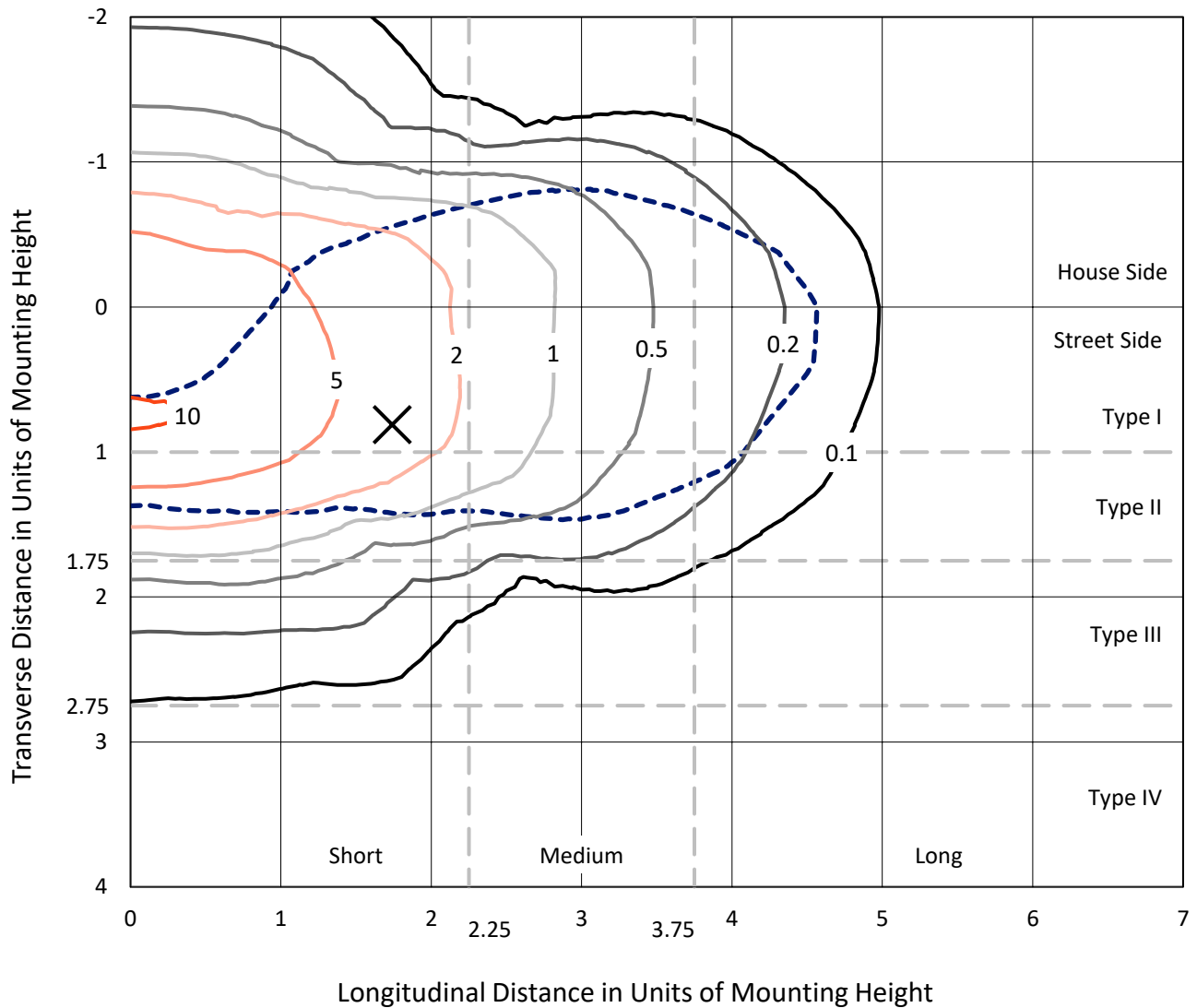
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

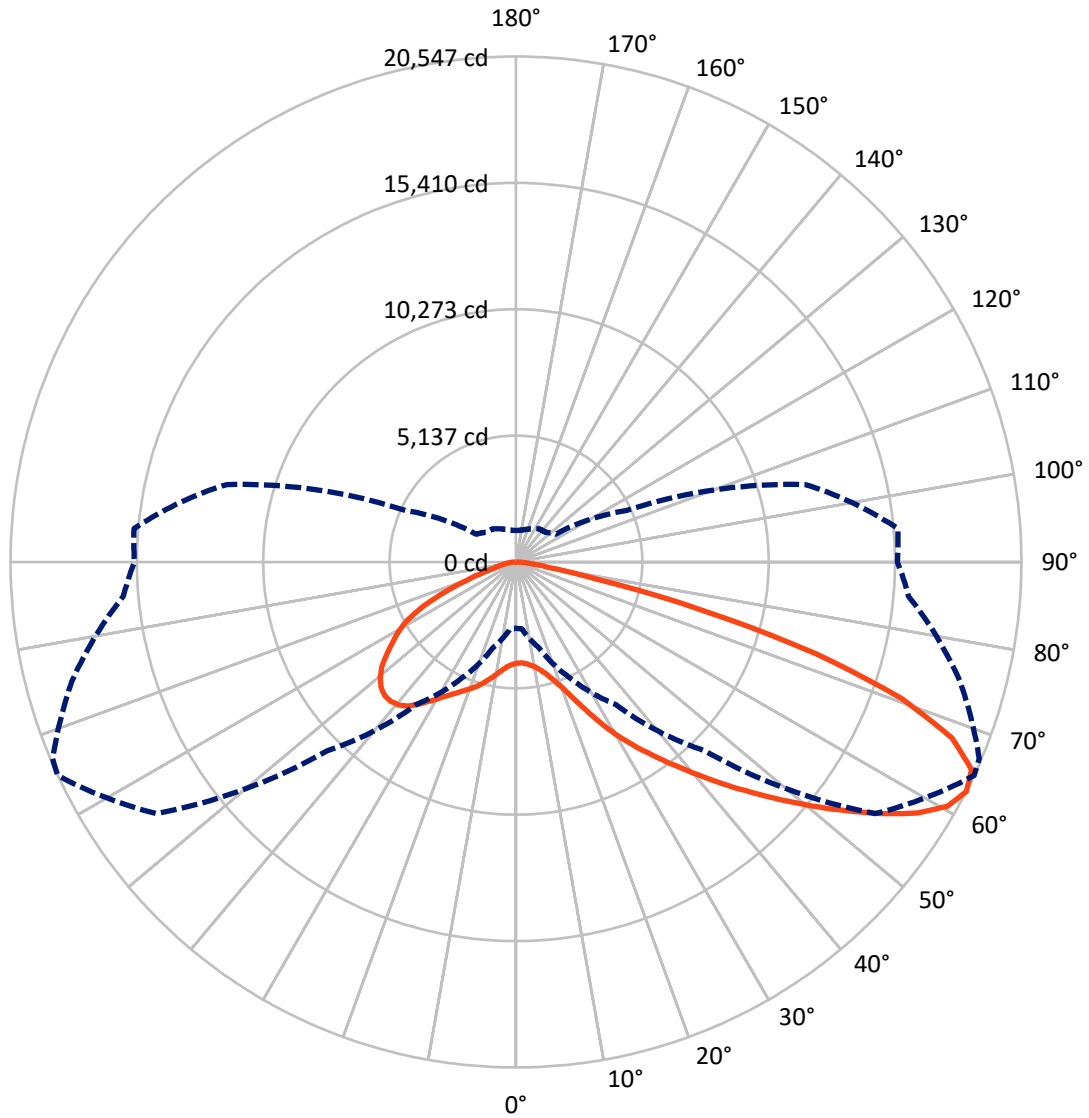
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	11787.6	0.0	11787.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	25567.4	0.0	25567.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	37355.0	0.0	37355.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.4	1.1
10°-20°	1391.7	3.7
20°-30°	2821.8	7.6
30°-40°	4883.1	13.1
40°-50°	7389.6	19.8
50°-60°	8663.8	23.2
60°-70°	7263.6	19.4
70°-80°	4010.1	10.7
80°-90°	520.9	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°	37355.0	100.0
0°-180°	37355.0	100.0



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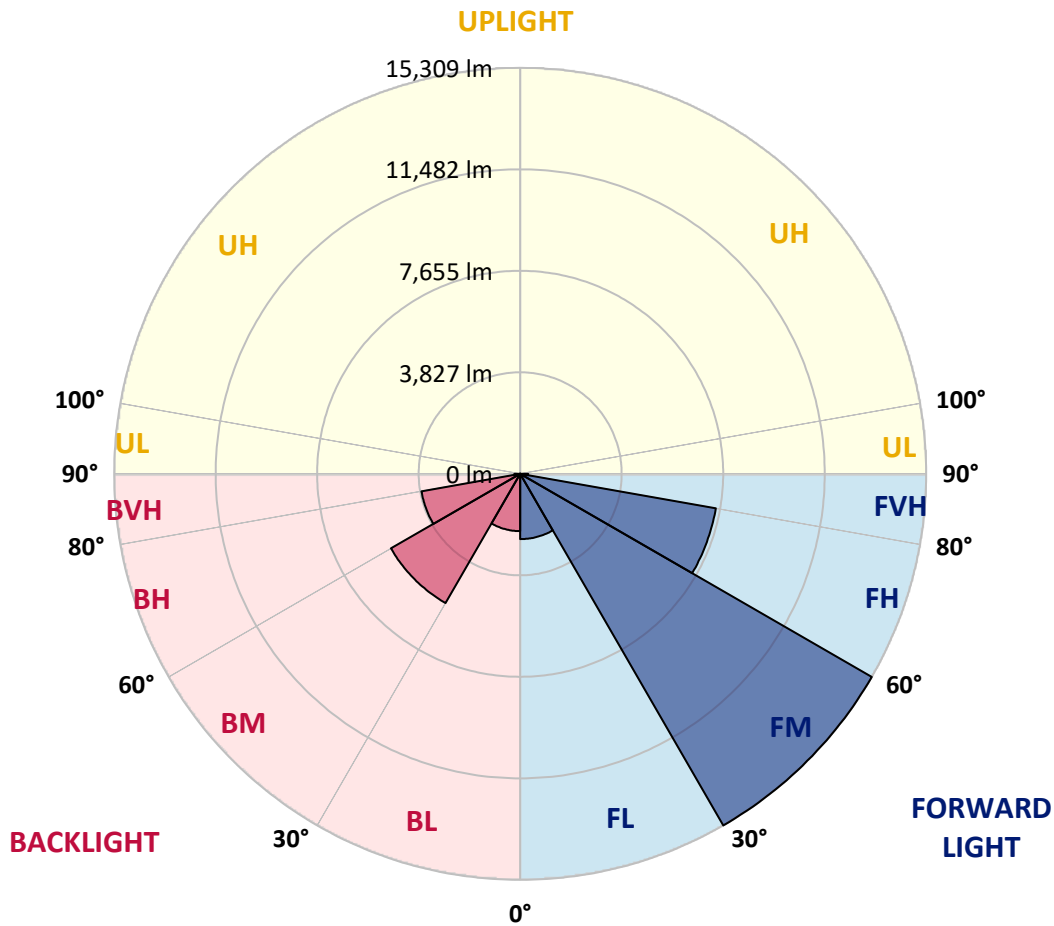
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2462.2	6.6			
FM (30°-60°)	15309.3	41.0			
FH (60°-80°)	7492.3	20.1			G3/7500
FVH (80°-90°)	303.6	0.8			G3/500
BL (0°-30°)	2161.7	5.8	B3/2500		
BM (30°-60°)	5627.2	15.1	B4/8500		
BH (60°-80°)	3781.4	10.1	B4/5000		G4/5000
BVH (80°-90°)	217.3	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°	4116.4	4116.4	4116.4	4116.4	4116.4	4116.4	4116.4	4116.4	4116.4	4116.4
2.5°	4089.2	4077.6	4087.3	4087.3	4091.2	4089.2	4102.8	4106.7	4112.5	4124.1
5°	4048.5	4046.6	4064.0	4079.5	4095.0	4108.6	4126.0	4151.2	4155.1	4168.7
7.5°	4035.0	4023.3	4050.5	4069.8	4106.7	4139.6	4186.1	4228.8	4246.2	4252.0
10°	4139.6	4120.2	4145.4	4157.1	4188.1	4221.0	4275.3	4343.1	4362.5	4385.7
12.5°	4317.9	4296.6	4333.4	4350.9	4379.9	4409.0	4445.8	4511.7	4521.4	4564.0
15°	4562.1	4536.9	4560.2	4581.5	4629.9	4657.1	4693.9	4757.8	4757.8	4790.8
17.5°	4893.5	4860.6	4878.0	4885.8	4916.8	4957.5	5019.5	5075.7	5104.8	5093.1
20°	5387.7	5347.0	5347.0	5308.2	5296.6	5329.6	5411.0	5488.5	5519.5	5459.4
22.5°	6130.0	6071.8	6038.9	5907.1	5854.8	5858.6	5940.0	6035.0	6060.2	5953.6
25°	7073.8	6982.7	6938.1	6744.3	6626.1	6523.4	6587.3	6709.4	6744.3	6612.5
27.5°	8017.6	8023.4	7980.8	7748.2	7552.5	7364.5	7331.5	7459.4	7496.3	7347.0
30°	9341.3	9203.7	9122.3	8843.2	8564.1	8300.5	8164.9	8217.2	8226.9	8048.6
32.5°	10482.8	10447.9	10273.5	10029.3	9670.7	9257.9	9031.2	8947.8	8932.3	8678.5
35°	11783.2	11763.8	11579.7	11289.0	10901.4	10327.7	9918.8	9680.4	9661.0	9304.4
37.5°	13104.9	13104.9	12924.7	12606.8	12205.7	11488.6	10866.5	10488.6	10426.6	9961.4
40°	14159.2	14095.2	14128.2	13994.5	13535.1	12773.5	11918.8	11370.4	11287.0	10728.9
42.5°	14758.0	14736.7	14934.4	15083.6	14895.6	14287.1	13077.8	12325.8	12209.5	11573.9
45°	14891.8	14868.5	15221.2	15767.7	16031.3	15781.3	14337.5	13331.7	13190.2	12457.6
47.5°	14583.6	14537.1	15054.6	15917.0	16762.0	17201.9	15701.9	14422.8	14217.3	13318.1
50°	13657.2	13612.7	14395.6	15541.0	17008.1	18167.0	17182.5	15579.8	15265.8	14240.6
52.5°	11643.6	11665.0	12891.7	14465.4	16684.4	18767.8	18457.7	16798.8	16420.9	15184.4
55°	9069.9	9116.5	10624.2	12356.8	15389.8	18676.7	19327.9	18054.6	17678.6	16072.0
57.5°	6494.3	6699.7	8112.6	9827.7	12903.4	17232.9	19517.8	19248.4	18884.1	17041.0
60°	4209.4	4246.2	5699.7	7428.4	9825.8	14667.0	19132.2	20153.5	19868.6	18029.4
62.5°	2697.7	2722.9	3608.6	5195.8	7071.8	10851.0	17833.7	20546.9	20459.7	18682.5
65°	1982.6	1963.2	2424.5	3434.2	4763.7	6692.0	15312.3	20357.0	20529.5	19091.5
67.5°	1655.1	1627.9	1854.7	2378.0	3509.8	3800.5	11329.7	19122.5	19754.3	19044.9
70°	1507.8	1484.5	1622.1	1765.5	2738.4	2544.6	5711.4	16624.4	17597.2	18515.9
72.5°	1277.2	1236.5	1424.4	1567.9	2129.9	1951.6	2360.5	12769.6	13955.7	16820.1
75°	990.3	963.2	1124.1	1379.9	1600.8	1523.3	1492.3	7754.0	9048.6	13008.0
77.5°	784.9	748.1	895.4	1075.6	1440.0	1149.2	1087.2	3339.2	4622.2	8304.4
80°	591.1	558.2	680.2	850.8	1106.6	866.3	703.5	1362.4	1742.3	4207.4
82.5°	420.6	391.5	474.8	624.0	744.2	777.1	432.2	763.6	858.5	1622.1
85°	269.4	251.9	317.8	391.5	472.9	500.0	263.6	399.2	438.0	668.6
87.5°	147.3	120.2	170.5	182.2	219.0	199.6	126.0	145.4	157.0	242.3
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°
4116.4	0°	4116.4	4116.4	4116.4	4116.4	4116.4	4116.4	4116.4	4116.4	4116.4	4116.4
4124.1	2.5°	4131.9	4137.7	4157.1	4162.9	4176.4	4193.9	4205.5	4217.1	4217.1	4228.8
4186.1	5°	4188.1	4201.6	4242.3	4263.6	4298.5	4333.4	4354.7	4379.9	4395.4	4403.2
4285.0	7.5°	4296.6	4317.9	4376.1	4412.9	4473.0	4521.4	4554.4	4589.2	4597.0	4618.3
4422.6	10°	4443.9	4469.1	4535.0	4604.7	4676.4	4736.5	4767.5	4792.7	4802.4	4806.3
4598.9	12.5°	4612.5	4649.3	4734.6	4819.9	4895.4	4947.8	4955.5	4949.7	4922.6	4899.3
4816.0	15°	4819.9	4852.8	4947.8	5040.8	5114.4	5124.1	5075.7	5044.7	5011.7	5005.9
5058.2	17.5°	5067.9	5085.4	5172.6	5263.7	5269.5	5236.5	5164.8	5135.8	5104.8	5083.4
5374.1	20°	5356.7	5350.9	5412.9	5451.7	5411.0	5310.2	5201.7	5153.2	5122.2	5097.0
5761.7	22.5°	5701.7	5657.1	5649.3	5639.6	5531.1	5319.9	5172.6	5110.6	5062.1	5027.2
6302.4	25°	6203.6	6033.1	5914.8	5849.0	5604.8	5267.5	5079.6	4942.0	4850.9	4790.8
6963.3	27.5°	6831.5	6544.7	6246.2	6085.4	5604.8	5161.0	4854.7	4631.9	4482.6	4420.6
7602.9	30°	7430.4	7130.0	6690.1	6370.3	5591.2	4986.5	4492.3	4182.3	4007.8	3945.8
8149.4	32.5°	7942.0	7614.5	7161.0	6682.3	5558.2	4703.6	4042.7	3699.7	3531.1	3457.4
8690.1	35°	8416.8	8068.0	7633.9	7025.3	5471.0	4288.8	3548.5	3286.9	3098.9	2980.7
9240.5	37.5°	8903.3	8488.5	8081.6	7335.4	5314.1	3804.3	3168.7	2945.8	2724.9	2565.9
9825.8	40°	9432.4	8936.2	8560.2	7519.5	5056.3	3343.1	2874.1	2670.6	2436.1	2267.5
10500.2	42.5°	10050.6	9473.1	9093.2	7614.5	4703.6	3015.6	2682.2	2482.6	2261.7	2124.1
11223.1	45°	10695.9	10064.1	9579.6	7612.6	4310.2	2862.5	2620.2	2422.5	2178.3	2034.9
11965.3	47.5°	11372.3	10682.4	10000.2	7488.5	3969.1	2883.8	2585.3	2292.7	2023.3	1883.8
12715.4	50°	12050.6	11358.7	10407.2	7256.0	3823.7	2837.3	2455.5	2110.5	1792.7	1666.7
13418.9	52.5°	12723.1	12077.8	10758.0	6924.6	3676.4	2664.8	2288.8	1874.1	1697.7	1610.5
14145.6	55°	13399.5	12789.0	11139.8	6442.0	3308.2	2463.2	2009.7	1784.9	1622.1	1542.7
14856.9	57.5°	14077.8	13610.7	11502.2	5959.4	2845.0	2215.2	1856.6	1676.4	1546.5	1478.7
15451.9	60°	14783.2	14550.7	11876.2	5515.6	2387.6	1897.3	1744.2	1589.2	1457.4	1381.8
16023.6	62.5°	15510.0	15585.6	12168.8	4943.9	1967.1	1703.5	1643.4	1484.5	1356.6	1284.9
16496.4	65°	16242.6	16583.7	12360.7	4151.2	1595.0	1519.4	1534.9	1370.2	1240.3	1178.3
16843.4	67.5°	16794.9	17302.7	12306.4	3141.5	1308.2	1345.0	1399.3	1250.0	1127.9	1079.5
16787.1	70°	16856.9	17217.4	11771.5	2151.2	1095.0	1174.4	1248.1	1131.8	1005.8	970.9
15996.4	72.5°	16031.3	16054.6	10281.2	1405.1	926.4	1031.0	1089.2	1011.6	889.6	854.7
13994.5	75°	13866.5	13277.4	7548.6	926.4	775.2	885.7	939.9	885.7	767.5	775.2
10471.1	77.5°	10506.0	9403.3	4583.4	658.9	647.3	744.2	817.8	779.1	678.3	761.6
5265.6	80°	5412.9	5087.3	2044.6	492.3	511.6	595.0	672.5	622.1	536.8	511.6
1176.4	82.5°	1240.3	1441.9	806.2	352.7	370.2	428.3	513.6	467.1	385.7	325.6
490.3	85°	434.1	474.8	356.6	220.9	217.1	267.4	348.8	312.0	261.6	209.3
207.4	87.5°	137.6	180.2	133.7	89.1	93.0	120.2	160.9	147.3	122.1	79.5
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°
4116.4
4228.8
4407.1
4610.6
4796.6
4899.3
5005.9
5085.4
5098.9
5038.9
4814.0
4451.6
3982.6
3494.3
3019.4
2608.6
2300.4
2151.2
2058.2
1903.1
1674.5
1610.5
1534.9
1467.1
1376.0
1283.0
1176.4
1081.4
972.9
852.7
748.1
670.6
467.1
321.7
220.9
83.3
0.0

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