

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: P950445

Luminaire Tested: **GALN-SB4D-927-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-927-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24262 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

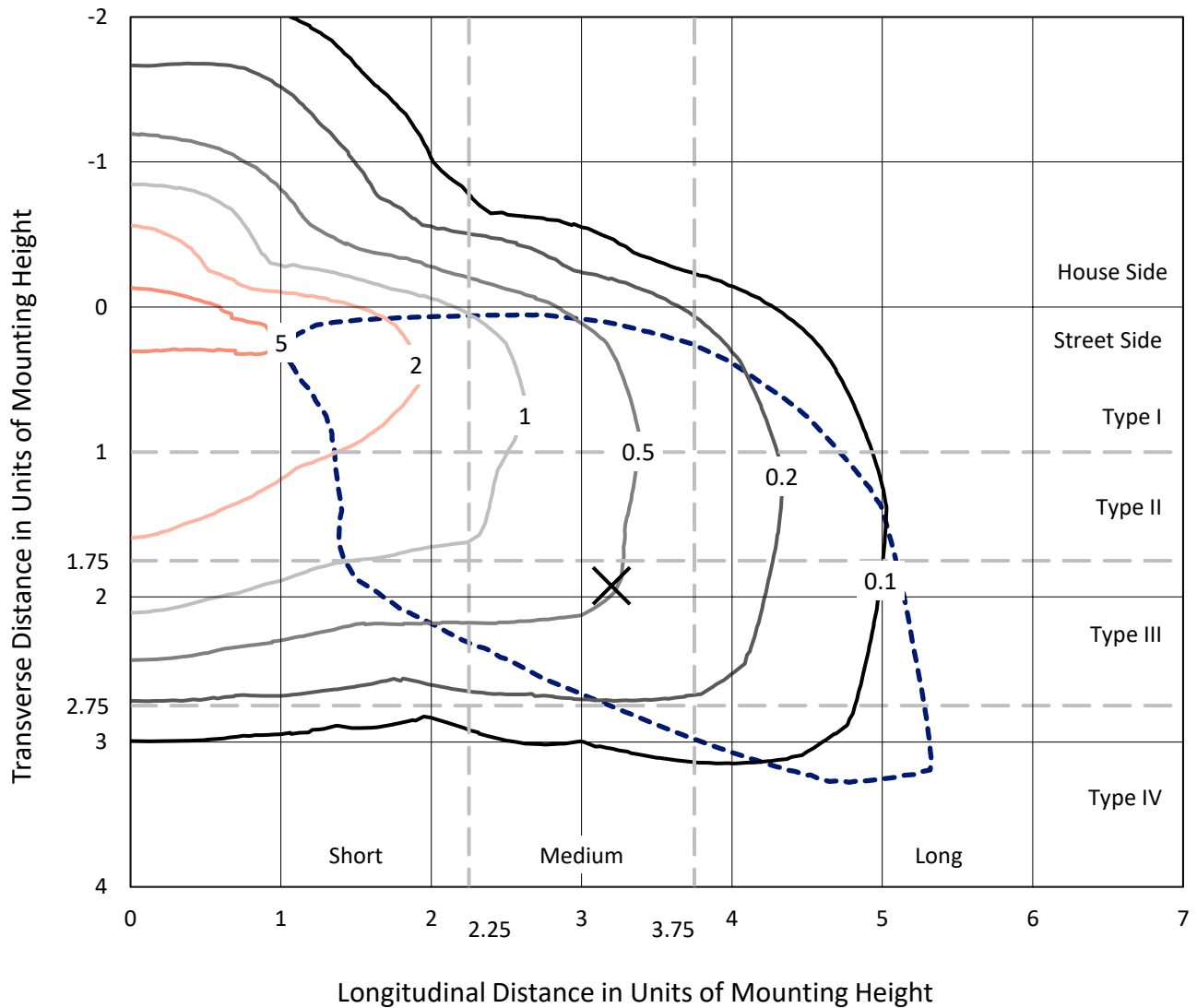
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

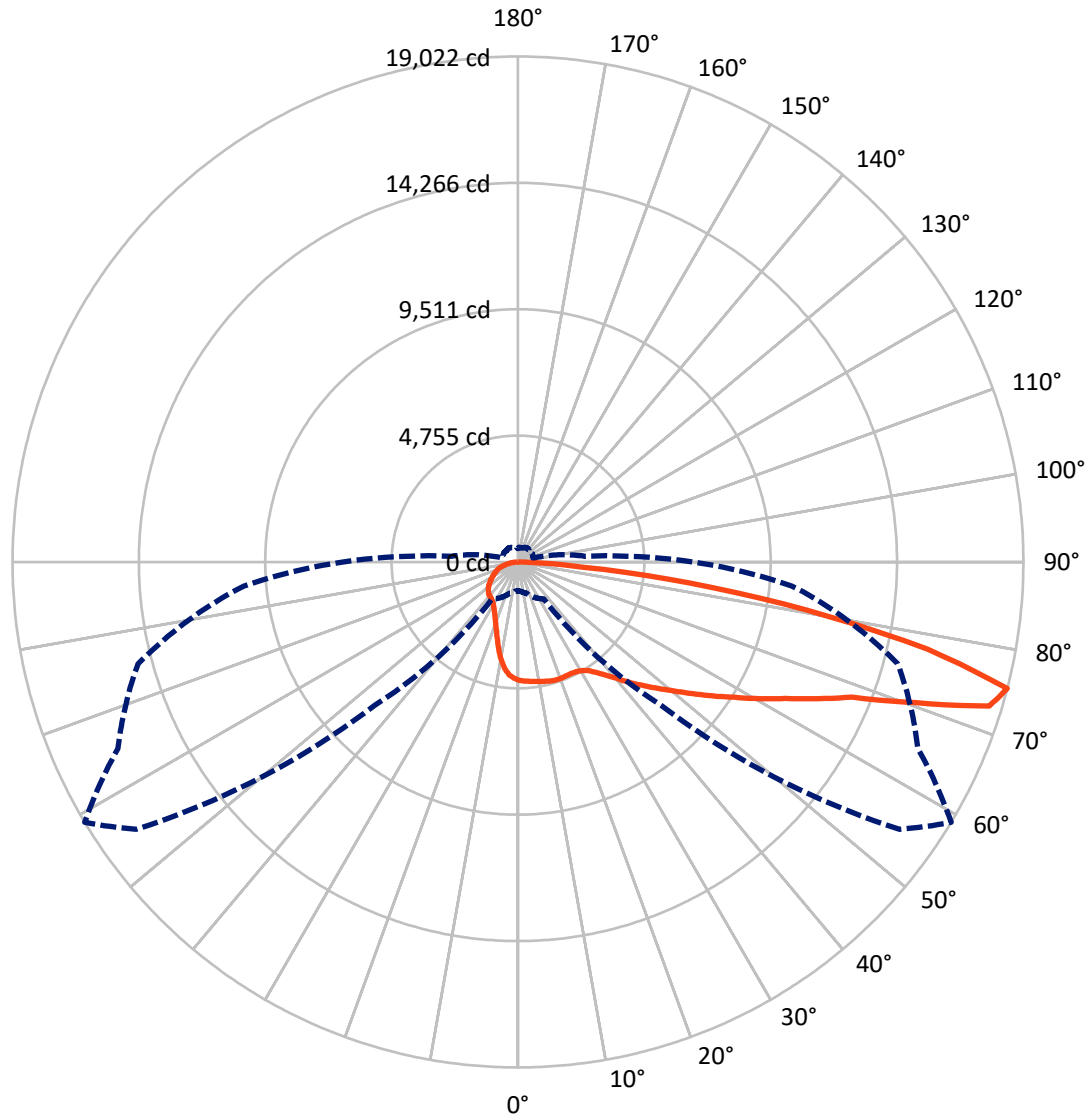
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4550.5	0.0	4550.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	19711.5	0.0	19711.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	24262.0	0.0	24262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.3	1.6
10°-20°	1020.6	4.2
20°-30°	1550.3	6.4
30°-40°	2304.4	9.5
40°-50°	3427.1	14.1
50°-60°	4651.9	19.2
60°-70°	5679.2	23.4
70°-80°	4457.0	18.4
80°-90°	772.1	3.2
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°	24262.0	100.0
0°-180°	24262.0	100.0

Coefficient of Utilization



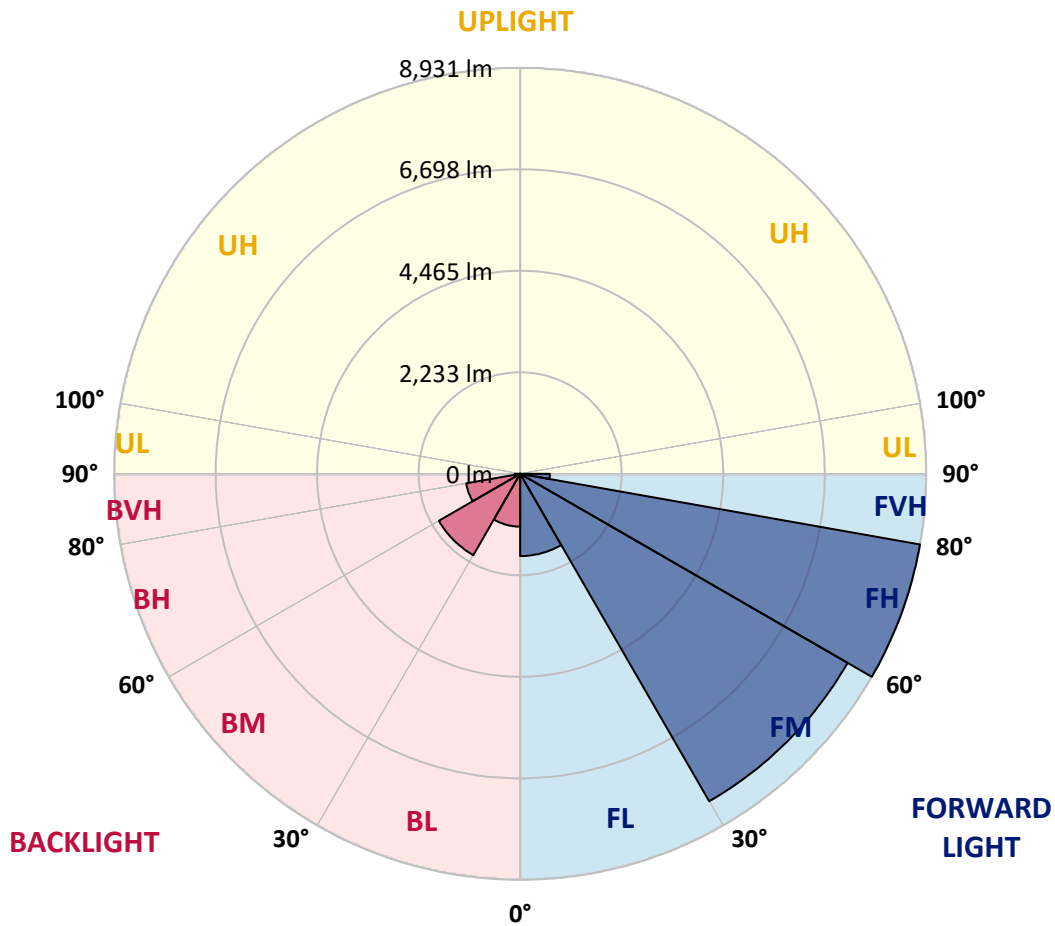
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1809.0	7.5			
FM (30°-60°)	8318.0	34.3			
FH (60°-80°)	8930.6	36.8			G4/12000
FVH (80°-90°)	653.9	2.7			G4/750
BL (0°-30°)	1161.2	4.8	B3/2500		
BM (30°-60°)	2065.5	8.5	B2/2500		
BH (60°-80°)	1205.6	5.0	B3/2500		G3/2500
BVH (80°-90°)	118.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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 CATALOG NUMBER: GALN-SB4D-927-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2
2.5°	4491.1	4475.4	4491.1	4484.6	4481.9	4476.7	4478.0	4487.2	4481.9	4488.5
5°	4461.1	4451.9	4467.6	4463.7	4480.6	4483.3	4500.2	4510.7	4517.2	4518.5
7.5°	4411.5	4402.3	4424.5	4442.8	4479.3	4489.8	4525.0	4542.0	4551.1	4566.8
10°	4230.1	4226.1	4281.0	4350.1	4436.3	4489.8	4543.3	4572.0	4586.4	4628.1
12.5°	3909.0	3914.2	3986.0	4119.1	4291.4	4463.7	4564.2	4605.9	4628.1	4680.3
15°	3602.3	3601.0	3679.3	3821.5	4063.0	4348.8	4574.6	4646.4	4684.3	4761.3
17.5°	3424.8	3419.5	3474.4	3582.7	3807.2	4172.6	4548.5	4668.6	4749.5	4846.1
20°	3392.1	3381.7	3410.4	3463.9	3623.1	3979.5	4480.6	4668.6	4801.7	4927.0
22.5°	3510.9	3493.9	3482.2	3475.7	3546.1	3820.2	4403.6	4652.9	4878.7	5043.2
25°	3749.8	3723.6	3663.6	3604.9	3584.0	3748.4	4335.8	4649.0	4993.6	5199.8
27.5°	4136.1	4103.5	3982.1	3841.1	3714.5	3785.0	4305.8	4672.5	5120.2	5365.5
30°	4615.1	4579.8	4427.1	4210.5	3983.4	3920.7	4343.6	4741.7	5282.0	5586.1
32.5°	5044.5	5005.3	4874.8	4654.2	4347.5	4155.7	4463.7	4873.5	5536.5	5892.8
35°	5425.6	5379.9	5262.4	5058.8	4793.9	4485.9	4680.3	5107.1	5898.1	6391.4
37.5°	5798.9	5745.4	5617.4	5402.1	5216.8	4925.7	4979.2	5407.3	6378.4	6997.0
40°	6216.5	6139.5	5984.2	5771.5	5591.3	5441.2	5372.1	5775.4	6866.5	7673.1
42.5°	6621.1	6548.0	6362.7	6181.3	5955.5	5912.4	5827.6	6206.1	7400.3	8415.7
45°	7057.0	6969.6	6745.1	6515.4	6373.1	6225.7	6268.7	6636.8	7923.7	9172.7
47.5°	7465.6	7367.7	7102.7	6846.9	6768.6	6489.3	6673.3	7110.6	8467.9	9940.2
50°	7686.1	7589.6	7369.0	7138.0	7076.6	6814.3	7111.9	7631.3	9038.3	10705.0
52.5°	7870.2	7765.8	7477.3	7349.4	7331.1	7168.0	7652.2	8226.5	9608.7	11381.1
55°	8065.9	7949.8	7581.7	7466.9	7550.4	7564.8	8293.0	8901.3	10211.6	12040.2
57.5°	8291.7	8144.3	7682.2	7566.1	7764.4	8029.4	9029.2	9600.8	10804.2	12651.0
60°	8504.5	8355.7	7875.4	7724.0	7995.5	8568.4	9873.6	10447.9	11475.0	13195.3
62.5°	8546.2	8423.6	8029.4	8028.1	8308.7	9197.5	10873.4	11302.8	12061.1	13733.0
65°	7823.2	7746.2	7512.6	8016.3	8757.7	10103.3	11986.7	12396.5	12806.3	14202.8
67.5°	5954.2	5964.6	5947.7	6920.0	8394.8	11404.6	13598.6	13567.2	13726.5	14730.1
70°	2722.6	2783.9	3183.3	4776.9	6725.5	11554.7	16263.7	15857.8	14881.5	15412.7
72.5°	1470.9	1517.9	1681.1	2314.1	4043.4	10273.0	18255.4	18543.8	16417.7	15872.2
75°	1079.4	1105.5	1219.0	1470.9	1698.0	7635.2	17541.5	19021.5	16609.6	14800.6
77.5°	807.9	819.6	912.3	1165.5	869.2	4025.1	14016.2	15753.4	14218.5	12160.3
80°	586.0	599.1	668.2	874.5	609.5	1472.2	9624.3	11057.4	9737.9	7751.4
82.5°	404.6	409.8	439.8	595.2	425.5	571.7	5460.8	6484.1	5436.0	2720.0
85°	244.1	250.6	263.6	347.2	241.5	271.5	2357.1	2438.1	1624.9	650.0
87.5°	100.5	107.0	117.5	146.2	95.3	75.7	388.9	488.1	304.1	190.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950445
 CATALOG NUMBER: GALN-SB4D-927-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4453.2	0°	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2	4453.2
4466.3	2.5°	4459.8	4450.6	4425.8	4391.9	4360.6	4321.4	4304.4	4290.1	4277.0	4252.2
4501.5	5°	4487.2	4462.4	4395.8	4309.7	4211.8	4104.8	4000.3	3928.6	3867.2	3821.5
4542.0	7.5°	4528.9	4481.9	4360.6	4184.4	3959.9	3730.2	3522.7	3375.2	3264.2	3223.8
4599.4	10°	4572.0	4515.9	4304.4	3993.8	3606.2	3252.5	2977.1	2825.7	2736.9	2708.2
4667.3	12.5°	4622.9	4540.7	4217.0	3728.9	3210.7	2823.1	2582.9	2494.2	2448.5	2432.8
4750.8	15°	4697.3	4561.6	4085.2	3397.4	2833.5	2509.8	2354.5	2293.2	2269.7	2268.4
4837.0	17.5°	4753.4	4565.5	3880.3	3042.3	2543.8	2320.6	2192.7	2169.2	2184.9	2208.3
4921.8	20°	4816.1	4530.2	3611.4	2718.7	2340.2	2154.8	2101.3	2117.0	2154.8	2188.8
5034.0	22.5°	4860.4	4466.3	3286.4	2466.8	2164.0	2059.6	2056.9	2089.6	2110.5	2127.4
5165.9	25°	4899.6	4358.0	2941.9	2255.3	2019.1	2002.1	2030.8	2020.4	2006.0	2020.4
5297.7	27.5°	4928.3	4187.0	2633.8	2070.0	1917.3	1963.0	1946.0	1922.5	1921.2	1929.0
5453.0	30°	4919.2	3958.6	2380.6	1893.8	1845.5	1889.9	1849.4	1845.5	1841.6	1845.5
5686.6	32.5°	4919.2	3698.8	2186.2	1772.4	1799.8	1782.9	1778.9	1769.8	1754.1	1752.8
6003.8	35°	4946.6	3439.1	2019.1	1707.2	1762.0	1721.5	1724.1	1701.9	1669.3	1653.6
6424.0	37.5°	5002.7	3230.3	1853.3	1675.8	1695.4	1694.1	1683.7	1645.8	1588.4	1538.8
6948.7	40°	5138.4	3168.9	1739.8	1661.5	1664.1	1679.8	1652.3	1579.3	1448.7	1367.8
7481.2	42.5°	5351.2	3272.1	1715.0	1626.2	1643.2	1658.9	1605.4	1435.7	1343.0	1294.7
8039.8	45°	5621.4	3452.2	1768.5	1575.3	1593.6	1621.0	1461.8	1380.9	1339.1	1340.4
8593.2	47.5°	5963.3	3641.4	1867.7	1531.0	1521.8	1537.5	1366.5	1316.9	1259.5	1273.8
9124.4	50°	6358.8	3833.3	1961.7	1470.9	1442.2	1391.3	1305.2	1258.2	1185.1	1151.2
9637.4	52.5°	6786.9	4018.6	1999.5	1397.8	1356.1	1297.3	1263.4	1206.0	1117.2	1061.1
10121.6	55°	7192.8	4187.0	1957.8	1310.4	1269.9	1224.2	1219.0	1183.8	1088.5	1010.2
10552.3	57.5°	7576.5	4327.9	1853.3	1221.6	1182.5	1155.1	1190.3	1173.3	1053.3	952.8
10959.5	60°	7901.5	4424.5	1701.9	1131.6	1104.2	1089.8	1143.3	1138.1	1003.7	891.4
11324.9	62.5°	8159.9	4462.4	1534.9	1045.4	1038.9	1012.8	1078.1	1078.1	941.0	831.4
11646.0	65°	8362.2	4425.8	1365.2	960.6	973.7	934.5	998.5	990.6	874.5	777.9
12015.4	67.5°	8541.0	4305.8	1177.3	877.1	907.1	857.5	914.9	896.7	801.4	724.4
12335.2	70°	8620.6	4026.4	963.2	793.5	830.1	781.8	831.4	797.5	719.1	666.9
11984.1	72.5°	7981.1	3346.5	758.3	706.1	737.4	698.3	741.3	702.2	630.4	606.9
10348.7	75°	6602.8	2511.1	583.4	610.8	634.3	604.3	633.0	604.3	539.0	556.0
7644.4	77.5°	4795.2	1695.4	446.4	510.3	520.8	505.1	529.9	497.3	438.5	434.6
3809.8	80°	2384.5	993.2	349.8	403.3	399.4	388.9	417.7	402.0	352.4	373.3
1028.5	82.5°	690.4	425.5	254.5	283.2	275.4	278.0	298.9	306.7	459.4	455.5
319.8	85°	216.7	167.1	152.7	157.9	150.1	154.0	176.2	349.8	323.7	189.2
99.2	87.5°	56.1	57.4	37.8	40.5	41.8	49.6	56.1	212.7	101.8	66.6
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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<u>180°</u>
4453.2
4240.5
3783.7
3153.3
2663.8
2436.8
2273.6
2217.5
2200.5
2136.6
2029.5
1942.1
1859.9
1769.8
1669.3
1555.8
1378.3
1294.7
1346.9
1310.4
1160.3
1059.8
1010.2
947.6
887.5
827.5
772.7
719.1
656.5
587.3
507.7
415.0
369.4
465.9
204.9
70.5
0.0

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