

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: P943427

Luminaire Tested: **GALN-SB7D-927-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-927-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44080 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

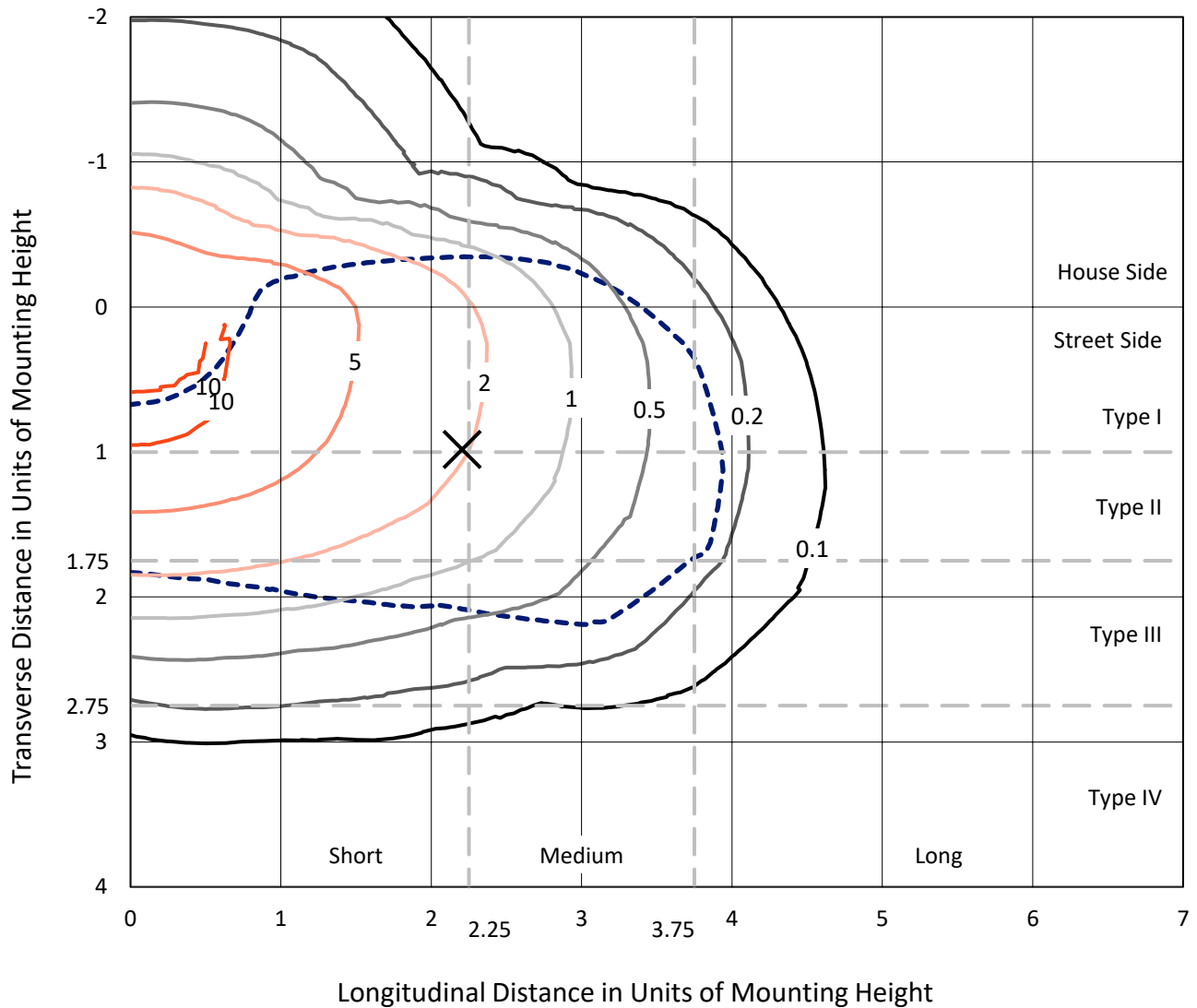
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

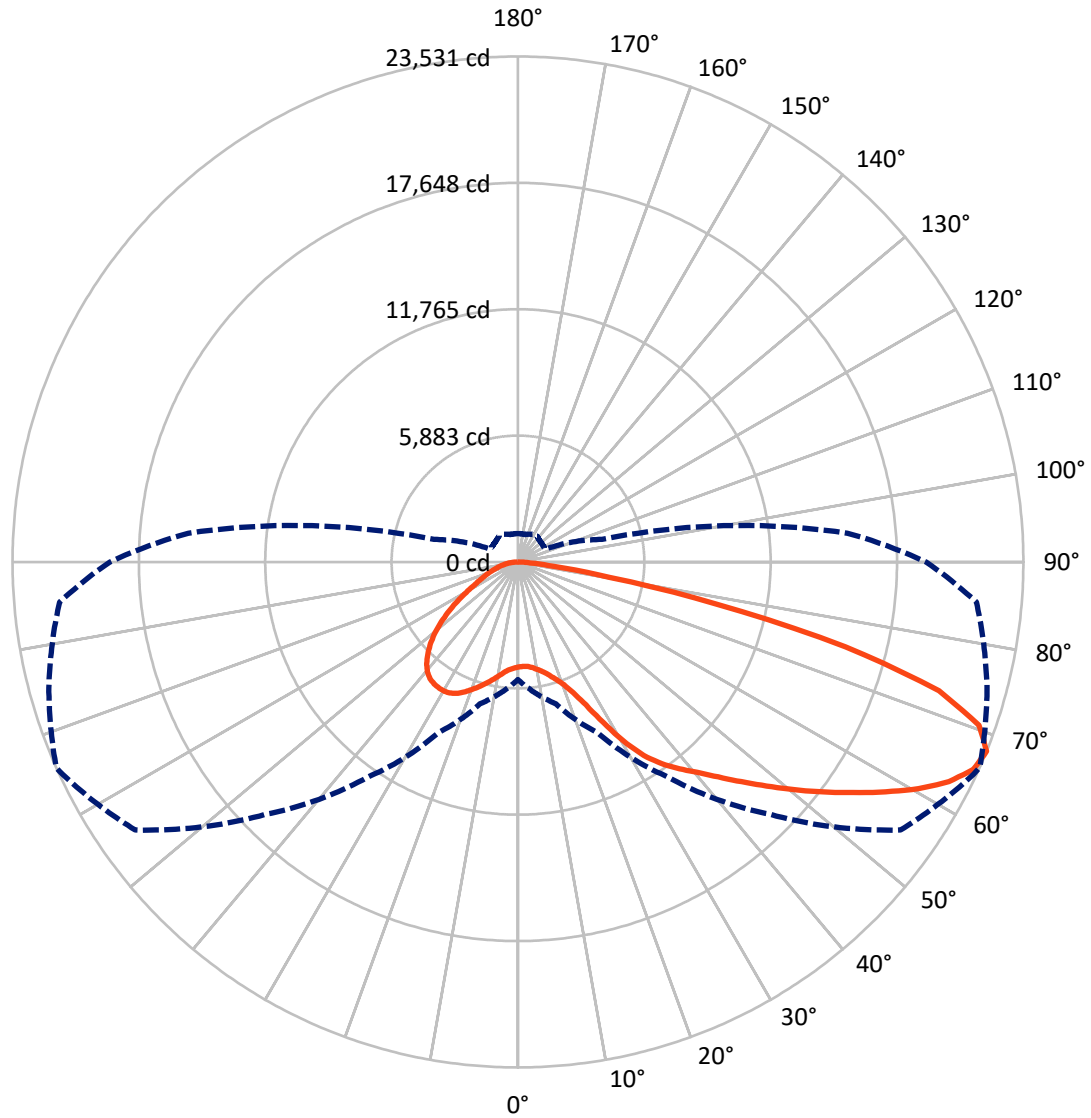
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10960.4	0.0	10960.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	33119.6	0.0	33119.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	44080.0	0.0	44080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.7	1.1
10°-20°	1601.5	3.6
20°-30°	3086.8	7.0
30°-40°	5412.3	12.3
40°-50°	8046.2	18.3
50°-60°	10199.4	23.1
60°-70°	9979.9	22.6
70°-80°	4760.5	10.8
80°-90°	508.8	1.2
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°	44080.0	100.0
0°-180°	44080.0	100.0

Coefficient of Utilization



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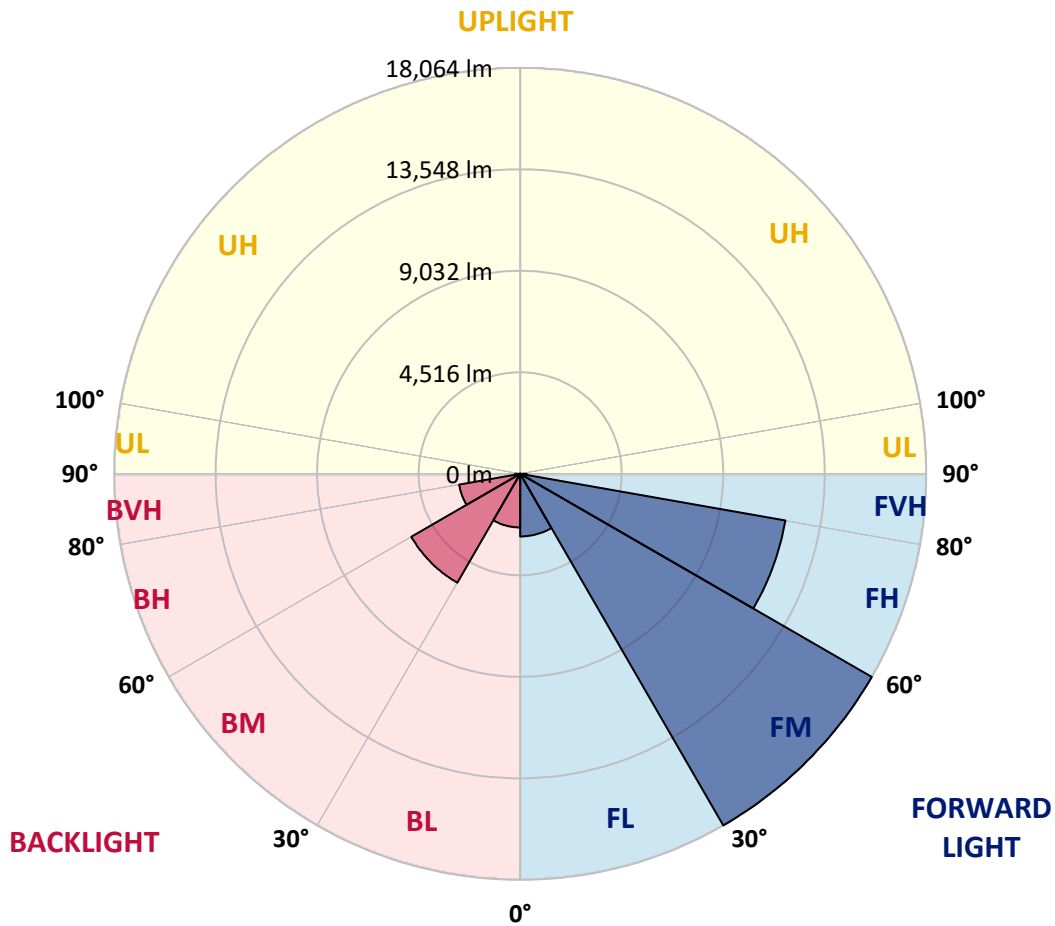
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2785.4	6.3			
FM (30°-60°)	18063.6	41.0			
FH (60°-80°)	11982.2	27.2			G4/12000
FVH (80°-90°)	288.5	0.7			G3/500
BL (0°-30°)	2387.6	5.4	B3/2500		
BM (30°-60°)	5594.3	12.7	B4/8500		
BH (60°-80°)	2758.2	6.3	B4/5000		G4/5000
BVH (80°-90°)	220.3	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1
2.5°	4838.1	4865.9	4858.9	4847.4	4845.1	4849.7	4856.6	4863.6	4861.3	4872.8
5°	4824.2	4852.0	4849.7	4849.7	4858.9	4877.5	4889.1	4900.6	4889.1	4903.0
7.5°	4833.5	4854.3	4863.6	4872.8	4896.0	4930.7	4958.5	4984.0	4970.1	4986.3
10°	4951.6	4967.8	4977.1	4977.1	4993.3	5032.6	5060.4	5106.8	5095.2	5120.7
12.5°	5167.0	5183.2	5183.2	5173.9	5185.5	5211.0	5220.2	5271.2	5250.3	5292.0
15°	5431.0	5463.4	5437.9	5421.7	5426.4	5451.8	5449.5	5488.9	5468.1	5502.8
17.5°	5722.8	5764.5	5722.8	5720.5	5711.2	5739.0	5741.3	5776.1	5739.0	5764.5
20°	6067.9	6125.8	6091.1	6102.6	6081.8	6093.4	6104.9	6155.9	6098.0	6116.5
22.5°	6554.3	6623.7	6586.7	6630.7	6616.8	6607.5	6605.2	6695.5	6605.2	6612.2
25°	7262.9	7346.3	7281.5	7341.7	7341.7	7371.8	7406.5	7522.3	7371.8	7327.8
27.5°	8309.8	8393.1	8265.8	8302.8	8291.2	8365.4	8328.3	8615.5	8453.4	8381.6
30°	9569.7	9717.9	9477.0	9467.8	9456.2	9574.3	9627.6	9817.5	9653.0	9581.2
32.5°	10931.5	11086.6	10799.5	10716.1	10672.1	10743.9	10699.9	10852.7	10739.2	10628.1
35°	12372.0	12524.9	12251.6	12089.5	11913.5	11762.9	11605.4	11644.8	11538.3	11369.2
37.5°	13733.8	14014.1	13724.6	13550.9	13226.6	12932.5	12492.4	12309.5	12209.9	12054.7
40°	15121.1	15280.9	15060.9	14912.7	14560.6	14099.7	13395.7	13008.9	12874.6	12724.0
42.5°	16142.4	16295.3	16177.2	16075.3	15799.7	15264.7	14354.5	13870.5	13675.9	13506.9
45°	16953.0	17066.5	16992.4	17029.5	16911.4	16392.6	15348.1	14794.5	14593.1	14386.9
47.5°	17279.6	17400.0	17518.1	17738.2	17939.7	17557.5	16415.7	15795.1	15582.0	15371.2
50°	17242.5	17365.3	17708.1	18175.9	18801.2	18673.8	17541.3	16860.4	16663.5	16422.7
52.5°	16946.1	17085.1	17525.1	18303.3	19299.1	19509.9	18687.7	17960.5	17775.2	17488.0
55°	16167.9	16251.3	16911.4	18013.8	19417.3	20093.5	19811.0	19132.4	18947.1	18546.4
57.5°	14725.1	14845.5	15806.6	17233.3	19120.8	20489.6	20797.6	20364.5	20186.2	19609.5
60°	12842.2	13034.4	14134.5	15922.4	18365.8	20487.2	21693.9	21575.8	21427.5	20656.3
62.5°	10711.5	10933.8	11992.2	14069.6	17045.7	19905.9	22254.3	22590.2	22513.7	21622.1
65°	8226.4	8379.3	9433.0	11672.6	14991.4	18657.6	22319.2	23282.6	23296.5	22356.2
67.5°	5477.3	5917.4	6832.2	8759.1	12240.0	16617.2	21749.5	23396.1	23530.5	22608.7
70°	2672.7	3251.6	4147.9	5692.7	8759.1	13488.3	20260.3	22465.1	22763.9	21872.2
72.5°	1109.4	1297.0	1785.6	2809.3	5028.0	9101.8	17268.0	19940.7	20494.2	19380.2
75°	748.1	810.6	1021.4	1440.5	2290.5	4488.4	12453.1	14868.7	15760.3	14637.1
77.5°	576.7	616.1	743.4	1007.5	1361.8	1697.6	6665.4	8960.6	9421.4	8722.0
80°	453.9	484.0	555.8	734.2	965.8	907.9	2272.0	4059.9	4326.3	3629.2
82.5°	393.7	405.3	398.4	497.9	641.5	530.4	745.7	1498.4	1653.6	1199.7
85°	284.9	317.3	331.2	308.0	340.5	268.7	305.7	530.4	583.6	521.1
87.5°	115.8	171.4	210.8	199.2	125.1	76.4	95.0	155.2	178.3	194.5
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°
4889.1	0°	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1	4889.1
4891.4	2.5°	4893.7	4909.9	4921.5	4935.4	4944.6	4958.5	4986.3	5002.5	5004.9	5016.4
4928.4	5°	4937.7	4960.9	4986.3	5023.4	5065.1	5099.8	5153.1	5190.1	5204.0	5215.6
5018.7	7.5°	5032.6	5065.1	5111.4	5176.2	5236.5	5282.8	5347.6	5391.6	5435.6	5451.8
5162.3	10°	5173.9	5220.2	5287.4	5375.4	5440.3	5500.5	5567.6	5604.7	5648.7	5667.2
5333.7	12.5°	5349.9	5398.6	5486.6	5609.3	5669.5	5711.2	5734.4	5725.1	5734.4	5750.6
5539.8	15°	5551.4	5604.7	5704.3	5836.3	5878.0	5840.9	5790.0	5743.7	5736.7	5741.3
5790.0	17.5°	5790.0	5829.3	5945.1	6056.3	6026.2	5873.4	5762.2	5688.1	5651.0	5639.4
6109.6	20°	6123.5	6123.5	6218.4	6287.9	6086.4	5827.0	5653.3	5532.9	5456.5	5424.0
6545.0	22.5°	6528.8	6491.7	6551.9	6503.3	6074.8	5697.3	5456.5	5248.0	5132.2	5085.9
7154.1	25°	7042.9	6998.9	6982.7	6681.6	5991.5	5491.2	5099.8	4847.4	4745.5	4720.0
8031.9	27.5°	7818.8	7707.6	7496.9	6778.9	5838.6	5167.0	4682.9	4449.0	4391.1	4393.4
9159.7	30°	8851.7	8629.4	8112.9	6795.1	5588.5	4708.4	4256.8	4090.0	4062.2	4073.8
10107.0	32.5°	9808.2	9597.5	8742.9	6721.0	5204.0	4259.1	3874.7	3763.5	3721.8	3735.7
10829.6	35°	10558.6	10500.7	9326.5	6616.8	4731.6	3837.6	3531.9	3436.9	3355.9	3337.3
11510.5	37.5°	11267.3	11244.1	9764.2	6470.9	4263.7	3538.8	3256.3	3131.2	3013.1	2948.3
12263.2	40°	12045.5	12022.3	10051.4	6246.2	3849.2	3279.4	3008.5	2844.0	2698.1	2580.0
13115.5	42.5°	12920.9	12784.3	10188.0	5924.3	3497.1	3059.4	2807.0	2584.6	2392.4	2283.6
14078.9	45°	13877.4	13569.4	10185.7	5514.4	3200.7	2857.9	2591.6	2276.6	2098.3	1996.4
15067.8	47.5°	14891.8	14319.8	10060.7	5060.4	2913.5	2635.6	2258.1	2017.2	1899.1	1836.6
16142.4	50°	15938.6	15021.5	9847.6	4539.3	2619.4	2383.2	2049.7	1885.2	1794.9	1737.0
17207.8	52.5°	16922.9	15658.4	9590.5	3948.8	2320.6	2137.7	1957.0	1829.6	1734.7	1669.8
18240.7	55°	17837.8	16207.3	9226.9	3344.3	2077.4	1973.2	1913.0	1806.5	1697.6	1621.2
19289.9	57.5°	18650.7	16564.0	8599.3	2776.9	1903.7	1859.7	1866.7	1767.1	1642.0	1577.2
20322.8	60°	19326.9	16825.7	7670.6	2251.1	1762.5	1748.6	1794.9	1693.0	1547.1	1473.0
21195.9	62.5°	19732.2	16821.0	6531.1	1843.5	1642.0	1646.7	1699.9	1600.3	1452.1	1382.6
21652.2	65°	19697.5	16408.8	5280.5	1577.2	1526.2	1530.9	1600.3	1498.4	1373.4	1331.7
21422.9	67.5°	19000.4	15403.6	4050.7	1403.5	1398.9	1419.7	1500.8	1429.0	1324.7	1320.1
20056.5	70°	17112.8	13316.9	2918.1	1264.5	1266.8	1297.0	1403.5	1385.0	1299.3	1308.5
16862.7	72.5°	13722.2	10153.3	1959.3	1118.6	1120.9	1169.6	1310.9	1350.2	1273.8	1396.5
11964.4	75°	9138.9	6331.9	1259.9	963.5	965.8	1028.3	1229.8	1283.1	1204.3	1391.9
6225.4	77.5°	4391.1	2846.4	912.5	810.6	810.6	868.5	1063.0	1148.7	1026.0	1081.6
2001.0	80°	1517.0	1070.0	718.0	653.1	639.2	678.6	896.3	995.9	884.7	815.2
653.1	82.5°	597.5	555.8	576.7	507.2	460.9	486.4	697.1	822.2	650.8	588.3
368.2	85°	342.8	361.3	407.6	335.8	266.3	298.8	511.8	590.6	491.0	433.1
120.4	87.5°	92.6	127.4	187.6	173.7	120.4	127.4	243.2	326.6	282.6	217.7
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°
4889.1
5014.1
5213.3
5454.2
5676.5
5755.2
5757.6
5655.6
5417.1
5079.0
4724.6
4400.4
4113.2
3754.2
3351.2
2950.6
2591.6
2290.5
1991.8
1822.7
1716.1
1642.0
1591.1
1535.5
1440.5
1361.8
1329.4
1327.1
1306.2
1415.1
1403.5
991.2
764.3
585.9
442.4
224.7
0.0

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