

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: P943977

Luminaire Tested: **GALN-SB8C-950-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943977  
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-SB8C-950-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

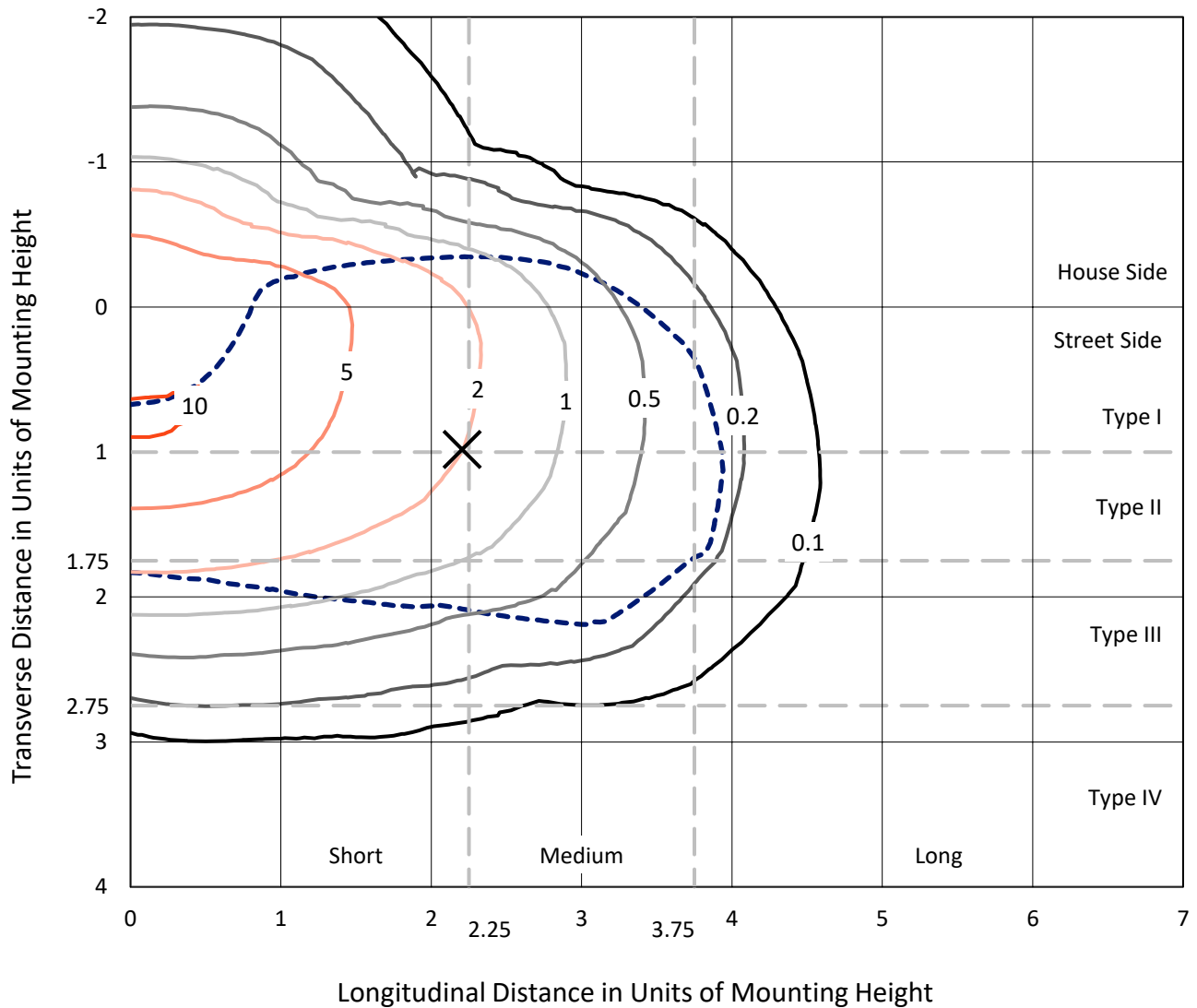
Lumens per Lamp: N/A  
Luminaire Lumens: 42156 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

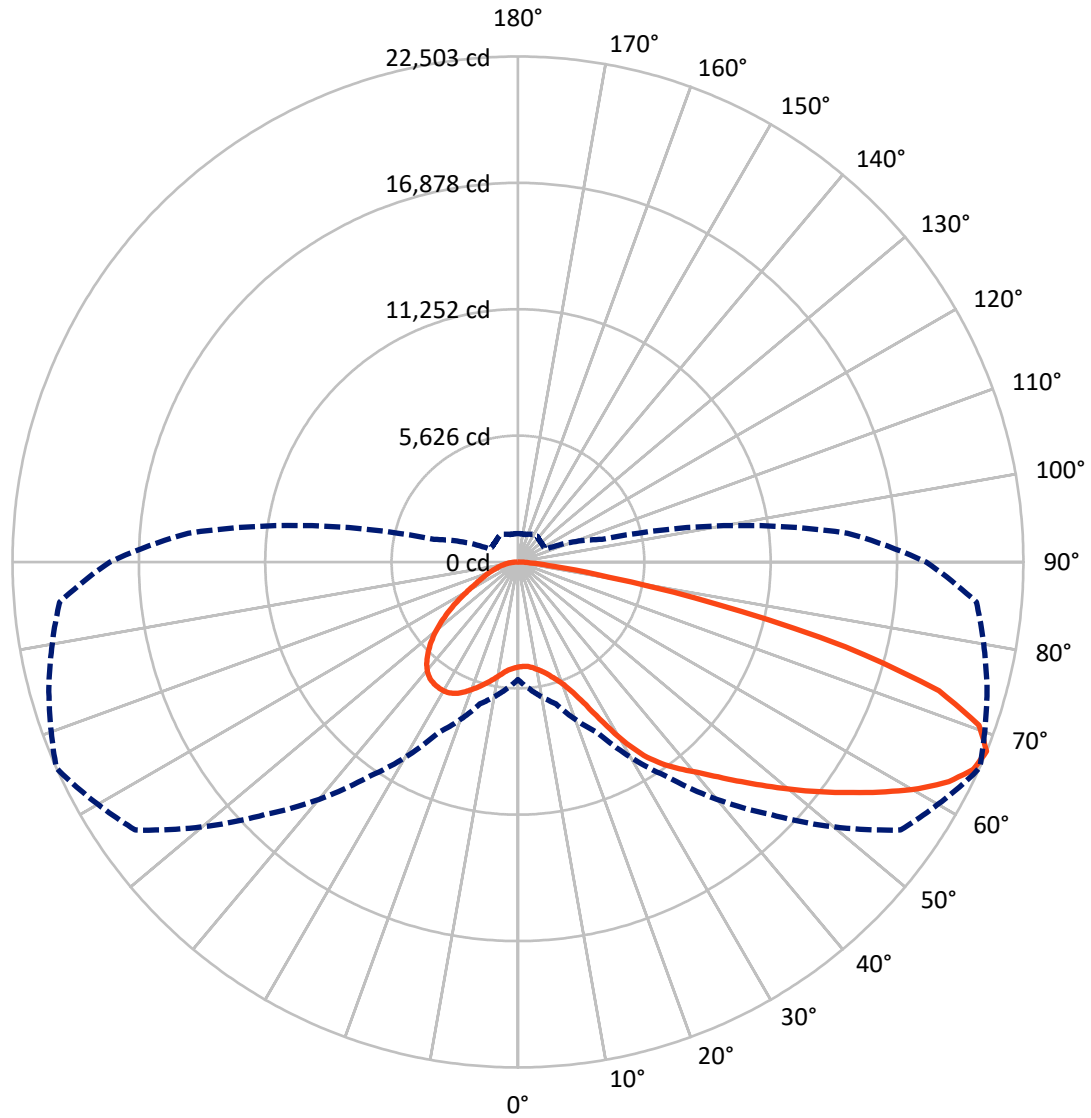
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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
<b>House Side</b>	Lumens	10482.0	0.0	10482.0
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	31674.0	0.0	31674.0
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	42156.0	0.0	42156.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	463.6	1.1
10°-20°	1531.6	3.6
20°-30°	2952.0	7.0
30°-40°	5176.0	12.3
40°-50°	7695.0	18.3
50°-60°	9754.2	23.1
60°-70°	9544.3	22.6
70°-80°	4552.7	10.8
80°-90°	486.6	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°	42156.0	100.0
0°-180°	42156.0	100.0



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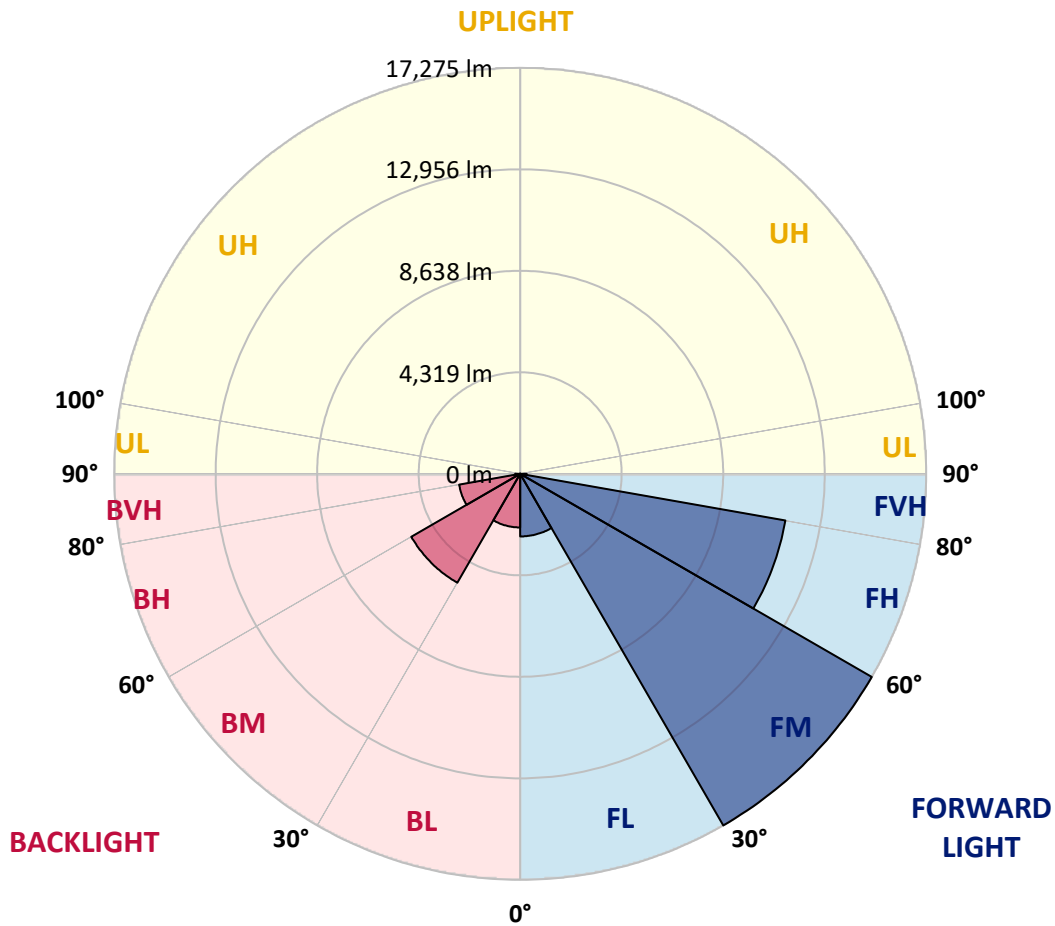
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2663.8	6.3			
FM (30°-60°)	17275.2	41.0			
FH (60°-80°)	11459.2	27.2			G4/12000
FVH (80°-90°)	275.9	0.7			G3/500
BL (0°-30°)	2283.4	5.4	B3/2500		
BM (30°-60°)	5350.1	12.7	B4/8500		
BH (60°-80°)	2637.8	6.3	B4/5000		G4/5000
BVH (80°-90°)	210.7	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°	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7
2.5°	4626.9	4653.5	4646.9	4635.8	4633.6	4638.0	4644.6	4651.3	4649.1	4660.2
5°	4613.6	4640.2	4638.0	4638.0	4646.9	4664.6	4675.7	4686.7	4675.7	4688.9
7.5°	4622.5	4642.4	4651.3	4660.2	4682.3	4715.5	4742.1	4766.5	4753.2	4768.7
10°	4735.5	4751.0	4759.8	4759.8	4775.3	4813.0	4839.6	4883.9	4872.8	4897.1
12.5°	4941.4	4957.0	4957.0	4948.1	4959.2	4983.5	4992.4	5041.1	5021.2	5061.1
15°	5193.9	5225.0	5200.6	5185.1	5189.5	5213.9	5211.7	5249.3	5229.4	5262.6
17.5°	5473.0	5512.9	5473.0	5470.8	5461.9	5488.5	5490.7	5524.0	5488.5	5512.9
20°	5803.0	5858.4	5825.2	5836.3	5816.3	5827.4	5838.5	5887.2	5831.8	5849.6
22.5°	6268.2	6334.6	6299.2	6341.3	6328.0	6319.1	6316.9	6403.3	6316.9	6323.5
25°	6945.9	7025.7	6963.7	7021.2	7021.2	7050.0	7083.3	7194.0	7050.0	7007.9
27.5°	7947.1	8026.8	7905.0	7940.4	7929.3	8000.2	7964.8	8239.4	8084.4	8015.7
30°	9152.0	9293.7	9063.4	9054.5	9043.4	9156.4	9207.3	9389.0	9231.7	9163.0
32.5°	10454.3	10602.7	10328.1	10248.4	10206.3	10274.9	10232.8	10379.0	10270.5	10164.2
35°	11832.0	11978.2	11716.8	11561.8	11393.5	11249.5	11098.9	11136.5	11034.6	10873.0
37.5°	13134.4	13402.4	13125.5	12959.4	12649.3	12368.0	11947.2	11772.2	11677.0	11528.6
40°	14461.1	14613.9	14403.5	14261.8	13925.1	13484.3	12811.0	12441.1	12312.6	12168.7
42.5°	15437.9	15584.0	15471.1	15373.6	15110.1	14598.4	13728.0	13265.0	13079.0	12917.3
45°	16213.1	16321.6	16250.7	16286.2	16173.2	15677.1	14678.2	14148.8	13956.1	13759.0
47.5°	16525.4	16640.6	16753.5	16963.9	17156.6	16791.2	15699.2	15105.6	14901.9	14700.3
50°	16489.9	16607.3	16935.1	17382.5	17980.6	17858.8	16775.7	16124.5	15936.2	15705.9
52.5°	16206.4	16339.3	16760.2	17504.4	18456.8	18658.3	17872.0	17176.6	16999.4	16724.7
55°	15462.2	15542.0	16173.2	17227.5	18569.7	19216.5	18946.3	18297.3	18120.1	17736.9
57.5°	14082.3	14197.5	15116.7	16481.1	18286.2	19595.2	19889.8	19475.6	19305.1	18753.6
60°	12281.6	12465.5	13517.5	15227.4	17564.2	19593.0	20747.0	20634.0	20492.3	19754.7
62.5°	10243.9	10456.6	11468.8	13455.5	16301.7	19037.1	21283.0	21604.2	21531.1	20678.3
65°	7867.3	8013.5	9021.3	11163.1	14337.1	17843.2	21345.0	22266.4	22279.7	21380.4
67.5°	5238.2	5659.1	6534.0	8376.8	11705.8	15891.9	20800.1	22374.9	22503.4	21621.9
70°	2556.0	3109.7	3966.9	5444.2	8376.8	12899.6	19376.0	21484.5	21770.3	20917.5
72.5°	1060.9	1240.3	1707.7	2686.7	4808.6	8704.6	16514.3	19070.3	19599.7	18534.3
75°	715.4	775.2	976.8	1377.7	2190.5	4292.5	11909.5	14219.7	15072.4	13998.2
77.5°	551.5	589.2	711.0	963.5	1302.4	1623.5	6374.5	8569.5	9010.2	8341.3
80°	434.1	462.9	531.6	702.1	923.6	868.2	2172.8	3882.7	4137.4	3470.8
82.5°	376.5	387.6	381.0	476.2	613.5	507.2	713.2	1433.0	1581.4	1147.3
85°	272.4	303.4	316.7	294.6	325.6	256.9	292.4	507.2	558.2	498.4
87.5°	110.7	163.9	201.6	190.5	119.6	73.1	90.8	148.4	170.5	186.1
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°
4675.7	0°	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7	4675.7
4677.9	2.5°	4680.1	4695.6	4706.7	4720.0	4728.8	4742.1	4768.7	4784.2	4786.4	4797.5
4713.3	5°	4722.2	4744.3	4768.7	4804.1	4844.0	4877.2	4928.2	4963.6	4976.9	4988.0
4799.7	7.5°	4813.0	4844.0	4888.3	4950.3	5007.9	5052.2	5114.2	5156.3	5198.4	5213.9
4937.0	10°	4948.1	4992.4	5056.6	5140.8	5202.8	5260.4	5324.6	5360.1	5402.1	5419.9
5100.9	12.5°	5116.4	5162.9	5247.1	5364.5	5422.1	5461.9	5484.1	5475.2	5484.1	5499.6
5298.0	15°	5309.1	5360.1	5455.3	5581.6	5621.4	5586.0	5537.3	5493.0	5486.3	5490.7
5537.3	17.5°	5537.3	5574.9	5685.7	5792.0	5763.2	5617.0	5510.7	5439.8	5404.4	5393.3
5842.9	20°	5856.2	5856.2	5947.0	6013.5	5820.8	5572.7	5406.6	5291.4	5218.3	5187.3
6259.3	22.5°	6243.8	6208.4	6266.0	6219.4	5809.7	5448.7	5218.3	5019.0	4908.2	4863.9
6841.8	25°	6735.5	6693.4	6677.9	6390.0	5730.0	5251.5	4877.2	4635.8	4538.3	4514.0
7681.3	27.5°	7477.5	7371.2	7169.6	6483.0	5583.8	4941.4	4478.5	4254.8	4199.5	4201.7
8759.9	30°	8465.4	8252.7	7758.8	6498.5	5344.6	4502.9	4071.0	3911.5	3884.9	3896.0
9665.8	32.5°	9380.1	9178.6	8361.3	6427.6	4976.9	4073.2	3705.5	3599.2	3559.3	3572.6
10356.9	35°	10097.7	10042.4	8919.4	6328.0	4525.0	3670.1	3377.7	3286.9	3209.4	3191.7
11008.1	37.5°	10775.5	10753.3	9338.0	6188.4	4077.6	3384.4	3114.2	2994.5	2881.6	2819.6
11727.9	40°	11519.7	11497.6	9612.7	5973.6	3681.2	3136.3	2877.2	2719.9	2580.4	2467.4
12543.0	42.5°	12356.9	12226.3	9743.4	5665.7	3344.5	2925.9	2684.5	2471.8	2288.0	2183.9
13464.4	45°	13271.7	12977.1	9741.1	5273.7	3061.0	2733.2	2478.5	2177.2	2006.7	1909.2
14410.2	47.5°	14241.8	13694.7	9621.5	4839.6	2786.3	2520.6	2159.5	1929.2	1816.2	1756.4
15437.9	50°	15243.0	14365.9	9417.8	4341.2	2505.1	2279.1	1960.2	1802.9	1716.5	1661.2
16456.7	52.5°	16184.3	14975.0	9171.9	3776.4	2219.3	2044.4	1871.6	1749.8	1659.0	1596.9
17444.6	55°	17059.2	15499.9	8824.2	3198.3	1986.8	1887.1	1829.5	1727.6	1623.5	1550.4
18447.9	57.5°	17836.6	15841.0	8223.9	2655.7	1820.6	1778.6	1785.2	1690.0	1570.4	1508.3
19435.8	60°	18483.4	16091.3	7335.8	2152.9	1685.5	1672.3	1716.5	1619.1	1479.6	1408.7
20270.8	62.5°	18871.0	16086.8	6246.0	1763.1	1570.4	1574.8	1625.7	1530.5	1388.7	1322.3
20707.1	65°	18837.7	15692.6	5050.0	1508.3	1459.6	1464.1	1530.5	1433.0	1313.4	1273.6
20487.8	67.5°	18171.1	14731.3	3873.9	1342.2	1337.8	1357.7	1435.3	1366.6	1266.9	1262.5
19181.0	70°	16365.9	12735.7	2790.8	1209.3	1211.6	1240.3	1342.2	1324.5	1242.6	1251.4
16126.7	72.5°	13123.3	9710.1	1873.8	1069.8	1072.0	1118.5	1253.6	1291.3	1218.2	1335.6
11442.2	75°	8740.0	6055.5	1204.9	921.4	923.6	983.4	1176.1	1227.1	1151.7	1331.2
5953.7	77.5°	4199.5	2722.1	872.7	775.2	775.2	830.6	1016.6	1098.6	981.2	1034.4
1913.7	80°	1450.8	1023.3	686.6	624.6	611.3	649.0	857.2	952.4	846.1	779.6
624.6	82.5°	571.4	531.6	551.5	485.1	440.8	465.1	666.7	786.3	622.4	562.6
352.2	85°	327.8	345.5	389.8	321.2	254.7	285.7	489.5	564.8	469.6	414.2
115.2	87.5°	88.6	121.8	179.4	166.1	115.2	121.8	232.6	312.3	270.2	208.2
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°  
4675.7  
4795.3  
4985.7  
5216.1  
5428.7  
5504.0  
5506.2  
5408.8  
5180.7  
4857.3  
4518.4  
4208.3  
3933.7  
3590.4  
3205.0  
2821.8  
2478.5  
2190.5  
1904.8  
1743.1  
1641.2  
1570.4  
1521.6  
1468.5  
1377.7  
1302.4  
1271.4  
**1269.1**  
1249.2  
1353.3  
1342.2  
948.0  
730.9  
560.4  
423.0  
214.8  
0.0

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