

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: P951598

Luminaire Tested: **GALN-SB5C-950-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951598  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5C-950-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

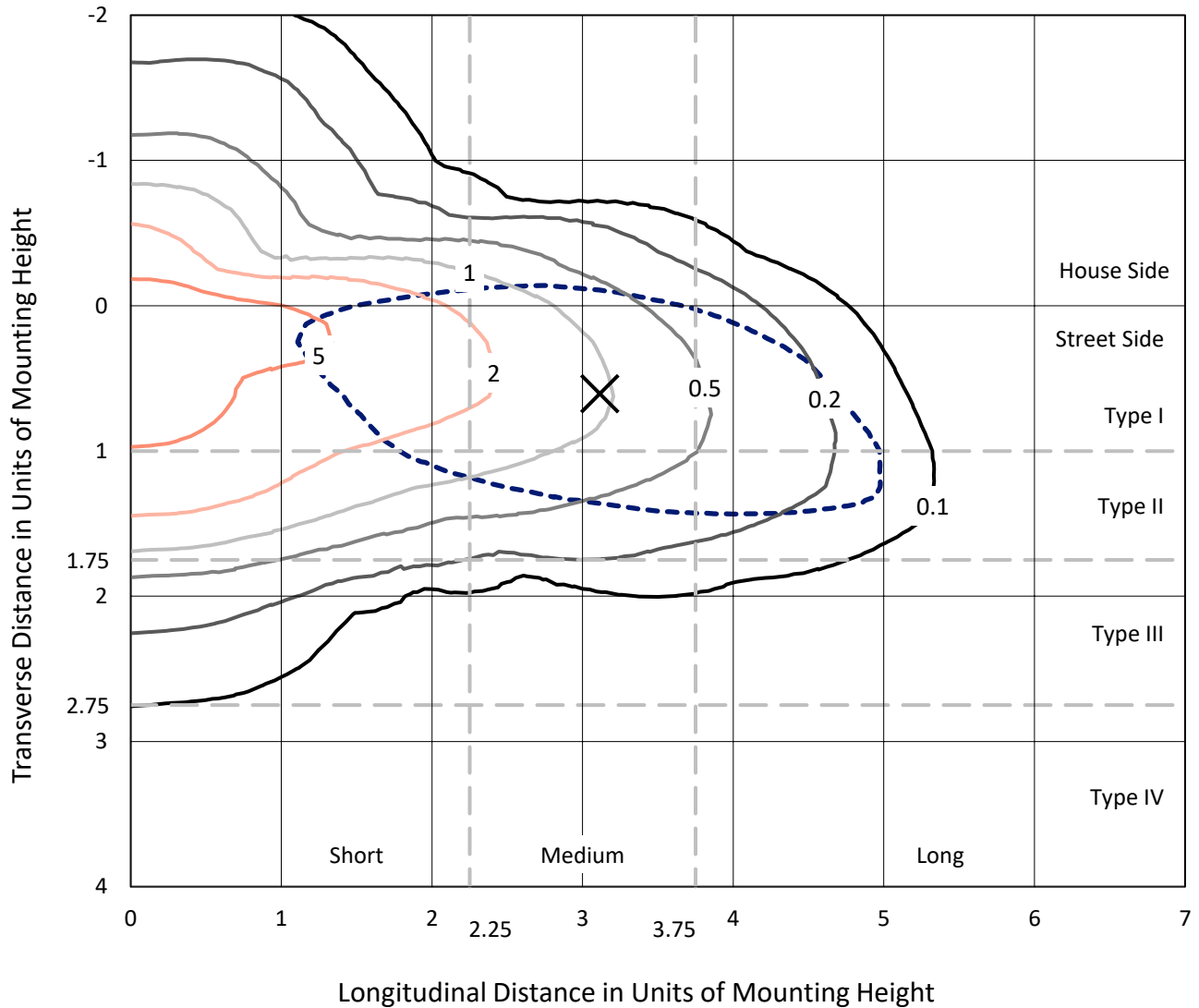
Lumens per Lamp: N/A  
Luminaire Lumens: 26158 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

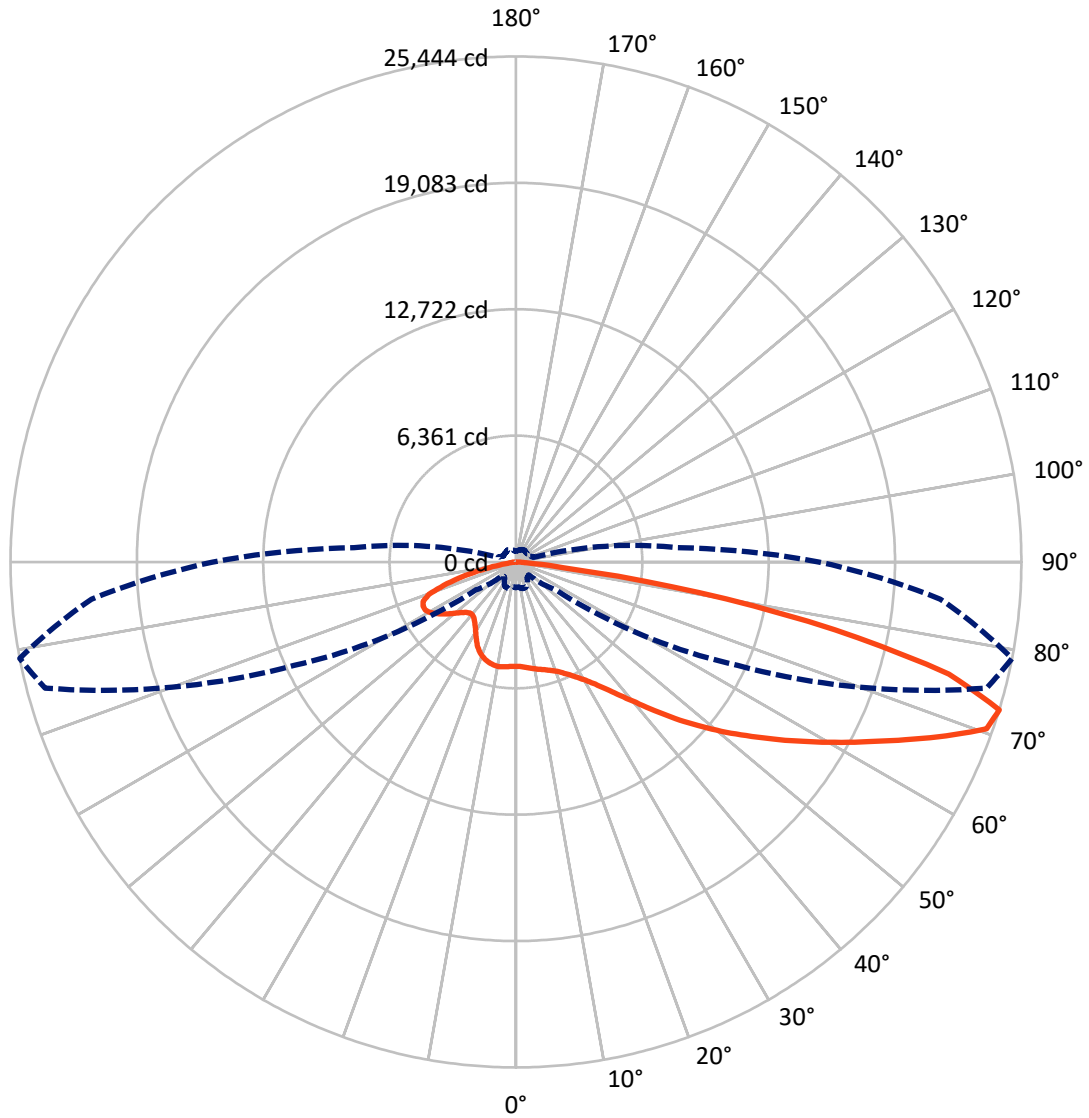
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5756.2	0.0	5756.2
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	20401.8	0.0	20401.8
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	26158.0	0.0	26158.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	476.6	1.8
10°-20°	1246.2	4.8
20°-30°	2010.8	7.7
30°-40°	3017.9	11.5
40°-50°	4281.1	16.4
50°-60°	5406.5	20.7
60°-70°	5491.0	21.0
70°-80°	3742.4	14.3
80°-90°	485.5	1.9
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°	26158.0	100.0
0°-180°	26158.0	100.0



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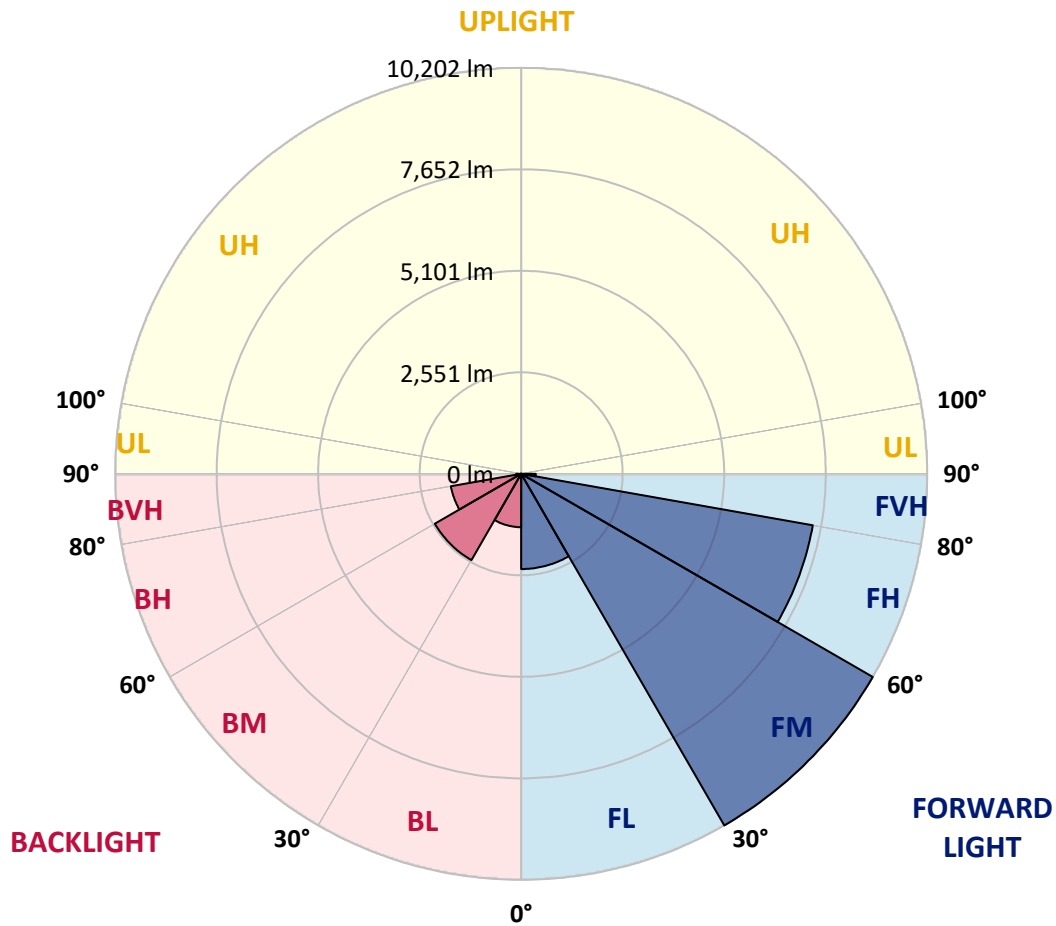
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2392.8	9.1			
FM (30°-60°)	10202.2	39.0			
FH (60°-80°)	7441.1	28.4			G3/7500
FVH (80°-90°)	365.8	1.4			G3/500
BL (0°-30°)	1340.8	5.1	B3/2500		
BM (30°-60°)	2503.3	9.6	B3/5000		
BH (60°-80°)	1792.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	119.8	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-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0
2.5°	5253.7	5228.8	5244.1	5238.5	5245.4	5253.7	5256.5	5260.7	5274.5	5273.1
5°	5242.7	5217.8	5238.5	5231.6	5249.6	5269.0	5285.6	5300.8	5322.9	5332.6
7.5°	5219.1	5202.5	5223.3	5244.1	5277.3	5306.3	5329.8	5364.4	5396.3	5401.8
10°	5082.2	5069.7	5118.1	5172.1	5263.4	5342.3	5393.5	5433.6	5468.2	5473.7
12.5°	4939.6	4924.4	4978.4	5051.7	5199.8	5342.3	5450.2	5502.8	5533.2	5551.2
15°	4916.1	4903.7	4934.1	4997.8	5120.9	5304.9	5489.0	5585.8	5612.1	5632.9
17.5°	5029.6	5006.1	5018.5	5040.7	5112.6	5270.3	5519.4	5679.9	5720.0	5742.2
20°	5292.5	5259.3	5239.9	5195.6	5183.2	5275.9	5516.6	5793.4	5845.9	5873.6
22.5°	5642.5	5620.4	5578.9	5466.8	5345.1	5343.7	5569.2	5938.6	6036.9	6063.2
25°	6065.9	6032.7	5980.2	5828.0	5594.1	5477.9	5657.8	6124.1	6288.7	6295.6
27.5°	6553.0	6503.2	6431.2	6230.6	5915.1	5688.2	5793.4	6337.1	6577.9	6575.1
30°	7066.3	7016.5	6940.4	6696.9	6299.8	5971.9	5981.5	6566.8	6921.0	6905.8
32.5°	7441.3	7403.9	7388.7	7200.5	6742.5	6306.7	6197.4	6821.4	7344.4	7330.6
35°	7729.1	7680.7	7698.7	7603.2	7225.4	6681.7	6461.7	7124.4	7859.2	7857.8
37.5°	8014.1	7971.2	7986.5	7922.8	7672.4	7157.6	6784.1	7495.3	8497.0	8527.5
40°	8274.3	8228.6	8289.5	8230.0	8019.7	7664.1	7150.7	7914.5	9235.9	9294.0
42.5°	8430.6	8394.6	8495.6	8497.0	8321.3	8091.6	7553.4	8376.6	10091.0	10221.1
45°	8484.6	8472.1	8624.3	8656.1	8588.3	8339.3	7915.9	8880.3	11012.5	11245.0
47.5°	8426.5	8402.9	8613.3	8730.9	8784.8	8455.5	8216.1	9425.5	11953.4	12293.8
50°	8133.1	8087.5	8400.2	8647.8	8840.2	8531.6	8519.2	10055.0	13023.0	13395.2
52.5°	7606.0	7571.4	7927.0	8357.3	8718.4	8569.0	8859.5	10742.7	14038.6	14520.1
55°	6932.1	6886.4	7278.0	7839.8	8415.4	8556.5	9199.9	11512.0	15236.8	15725.2
57.5°	5863.9	5772.6	6268.0	6932.1	7921.4	8541.3	9554.1	12277.2	16454.4	17039.7
60°	4305.9	4170.3	4777.8	5565.1	6955.6	8393.2	9992.8	13135.0	17915.6	18442.7
62.5°	2507.2	2428.3	2825.4	3560.1	5242.7	7521.5	10239.0	14132.6	19351.8	19905.3
65°	1946.8	1924.7	1959.3	2016.0	2918.1	5631.5	9479.4	15105.4	21178.2	21565.6
67.5°	1780.8	1764.2	1779.4	1672.8	1480.5	3136.7	7499.4	15351.6	23134.7	23369.9
70°	1582.9	1563.5	1613.3	1522.0	1165.0	1426.5	4845.6	14457.8	24691.3	25132.7
72.5°	1289.6	1267.4	1383.7	1342.1	981.0	916.0	2433.8	12333.9	24528.0	25444.0
75°	990.7	978.2	1116.6	1151.2	799.8	720.9	1167.8	9168.1	21585.0	22507.9
77.5°	769.3	759.6	830.2	956.1	644.8	559.0	718.1	5815.5	16266.2	16428.1
80°	577.0	549.3	614.3	740.3	502.3	408.2	487.0	3391.3	10281.9	9320.3
82.5°	361.1	347.3	401.3	494.0	354.2	280.9	316.9	1873.5	4120.5	2426.9
85°	206.2	200.6	218.6	282.3	192.3	161.9	181.3	827.4	752.7	517.5
87.5°	83.0	80.3	99.6	125.9	70.6	59.5	63.6	199.2	166.0	153.6
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°
5251.0	0°	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0	5251.0
5271.7	2.5°	5266.2	5266.2	5246.8	5216.4	5181.8	5159.6	5123.7	5114.0	5076.6	5065.6
5318.8	5°	5329.8	5318.8	5259.3	5173.5	5055.9	4947.9	4829.0	4754.2	4649.1	4611.7
5411.5	7.5°	5410.1	5379.6	5277.3	5089.1	4842.8	4600.7	4348.8	4157.9	3975.2	3910.2
5487.6	10°	5483.4	5440.5	5266.2	4936.9	4510.7	4091.5	3690.2	3409.3	3196.2	3109.1
5572.0	12.5°	5556.8	5477.9	5192.9	4683.7	4038.9	3470.2	3042.7	2824.0	2692.6	2587.4
5641.2	15°	5625.9	5515.2	5079.4	4344.7	3521.4	2944.4	2628.9	2454.6	2349.4	2280.3
5742.2	17.5°	5706.2	5547.1	4909.2	3914.4	3028.8	2580.5	2323.2	2218.0	2197.2	2188.9
5880.5	20°	5818.3	5576.1	4685.1	3432.8	2666.3	2289.9	2157.1	2147.4	2146.0	2141.9
6046.6	22.5°	5938.6	5610.7	4389.0	2995.6	2357.7	2108.7	2085.2	2065.8	2053.3	2052.0
6247.2	25°	6081.2	5621.8	4018.1	2637.2	2094.9	2022.9	1995.2	1966.2	1957.9	1957.9
6475.5	27.5°	6219.5	5584.4	3586.4	2325.9	1946.8	1944.0	1908.1	1898.4	1897.0	1901.1
6735.6	30°	6357.9	5513.9	3157.5	2038.1	1861.0	1861.0	1848.6	1855.5	1861.0	1874.9
7092.6	32.5°	6544.7	5439.1	2799.1	1825.0	1786.3	1772.5	1784.9	1798.8	1804.3	1822.3
7561.7	35°	6818.7	5386.6	2514.1	1708.8	1708.8	1690.8	1697.7	1695.0	1682.5	1674.2
8129.0	37.5°	7181.2	5383.8	2278.9	1654.9	1643.8	1641.0	1642.4	1624.4	1576.0	1517.9
8815.3	40°	7617.0	5458.5	2097.6	1617.5	1609.2	1625.8	1617.5	1569.1	1436.2	1335.2
9659.3	42.5°	8202.3	5671.6	1981.4	1571.8	1596.7	1617.5	1584.3	1416.9	1326.9	1259.1
10620.9	45°	8891.4	6017.5	1921.9	1523.4	1573.2	1598.1	1437.6	1364.3	1292.3	1210.7
11669.7	47.5°	9671.7	6453.4	1908.1	1477.7	1520.6	1535.9	1375.4	1342.1	1260.5	1172.0
12724.1	50°	10521.3	6969.5	1945.4	1423.8	1444.5	1392.0	1354.6	1324.2	1239.8	1152.6
13804.7	52.5°	11399.9	7538.2	2020.1	1350.4	1368.4	1310.3	1346.3	1320.0	1227.3	1109.7
14921.3	55°	12263.3	8111.0	2092.1	1264.7	1290.9	1237.0	1322.8	1303.4	1170.6	1037.7
16112.7	57.5°	13140.6	8681.0	2162.7	1188.6	1216.2	1166.4	1285.4	1259.1	1106.9	971.3
17413.3	60°	14052.4	9234.5	2195.9	1115.2	1134.6	1101.4	1228.7	1183.0	1035.0	903.5
18691.8	62.5°	14906.1	9695.3	2141.9	1041.9	1054.3	1040.5	1154.0	1093.1	963.0	827.4
20024.3	65°	15762.6	9969.2	1975.9	969.9	972.7	965.8	1048.8	996.2	878.6	761.0
21190.7	67.5°	16538.8	10122.8	1711.6	892.5	885.5	882.8	950.6	891.1	797.0	694.6
22077.6	70°	16703.5	9732.6	1307.6	801.1	801.1	794.2	842.6	781.8	707.0	624.0
21442.5	72.5°	15256.2	8187.1	928.4	697.4	708.4	694.6	734.7	683.5	615.7	560.4
18480.1	75°	12302.1	6003.7	675.2	590.8	610.2	586.7	624.0	588.1	529.9	528.6
12735.2	77.5°	8452.7	3712.3	489.8	487.0	500.9	470.4	513.3	494.0	441.4	417.9
5542.9	80°	3607.2	1480.5	357.0	376.4	376.4	348.7	398.5	404.0	358.4	347.3
1069.6	82.5°	718.1	420.6	250.4	258.7	243.5	235.2	282.3	312.7	431.7	480.1
322.4	85°	215.9	155.0	150.8	141.1	124.5	125.9	166.0	314.1	387.4	221.4
106.5	87.5°	59.5	38.7	40.1	31.8	26.3	34.6	56.7	238.0	130.1	55.3
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>
5251.0
5083.5
4639.4
3918.5
3128.4
2622.0
2292.7
2194.5
2155.7
2067.2
1966.2
1912.2
1884.5
1837.5
1693.6
1519.3
1332.5
1256.4
1205.2
1165.0
1142.9
1101.4
1030.8
968.6
899.4
826.0
752.7
686.3
621.3
543.8
476.0
391.6
347.3
481.5
190.9
47.0
0.0

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