

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: P951780

Luminaire Tested: **GALN-SB5D-827-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951780  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-827-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

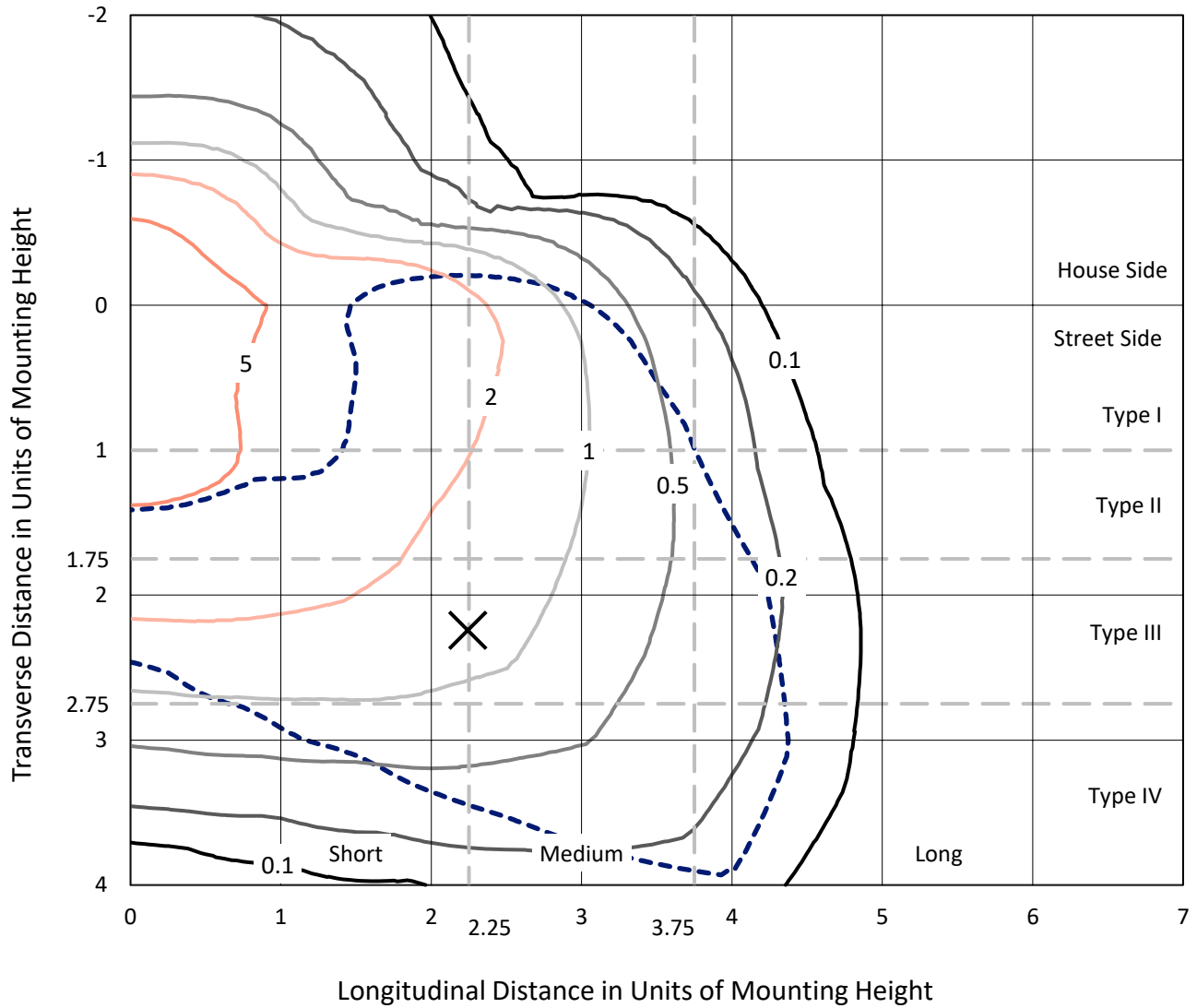
Lumens per Lamp: N/A  
Luminaire Lumens: 44611 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

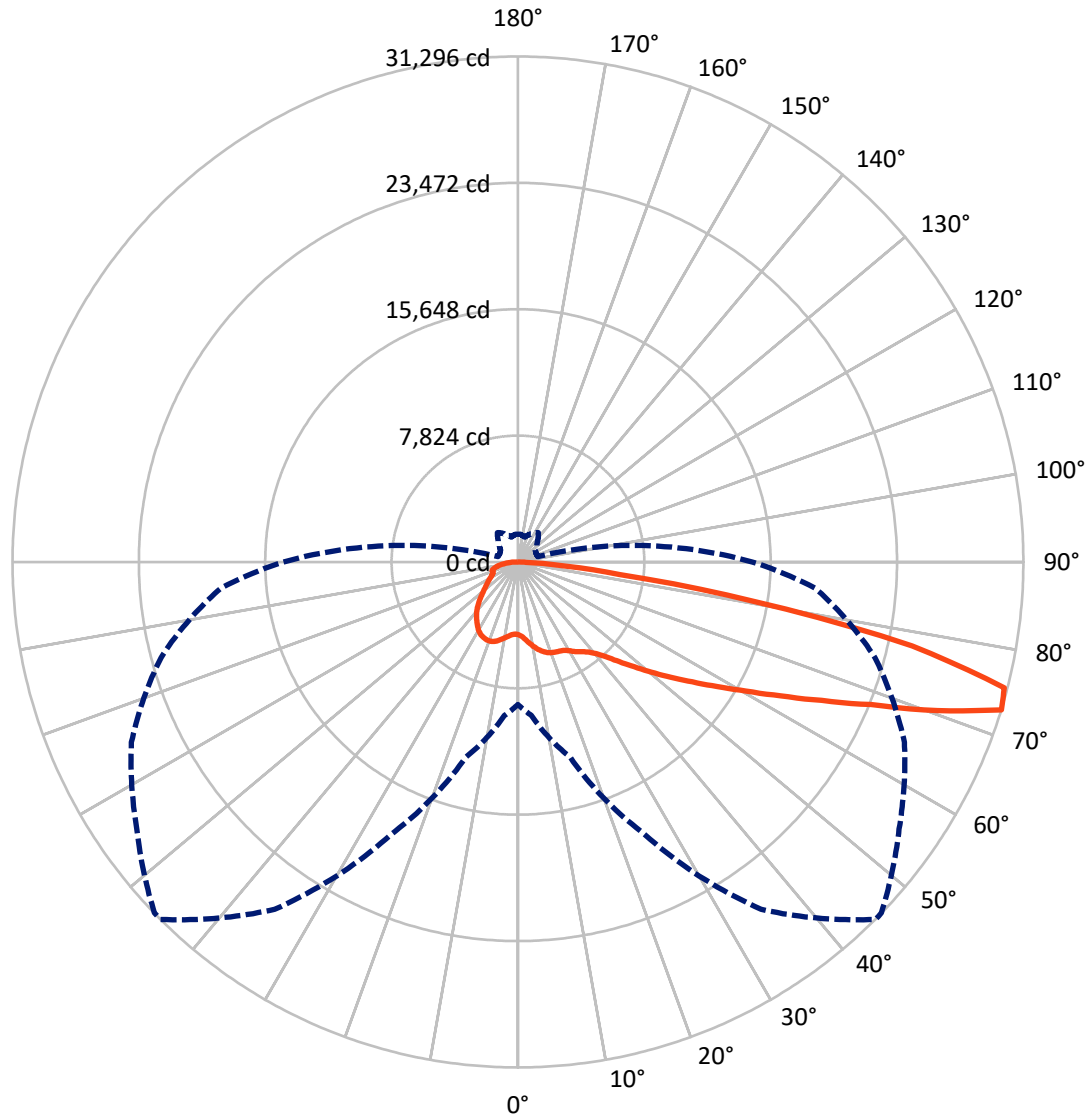
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10085.0	0.0	10085.0
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	34526.0	0.0	34526.0
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	44611.0	0.0	44611.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	458.0	1.0
10°-20°	1527.2	3.4
20°-30°	2656.7	6.0
30°-40°	3808.4	8.5
40°-50°	5362.5	12.0
50°-60°	8213.8	18.4
60°-70°	11898.9	26.7
70°-80°	9502.0	21.3
80°-90°	1183.4	2.7
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°	44611.0	100.0
0°-180°	44611.0	100.0

**Coefficient of Utilization**



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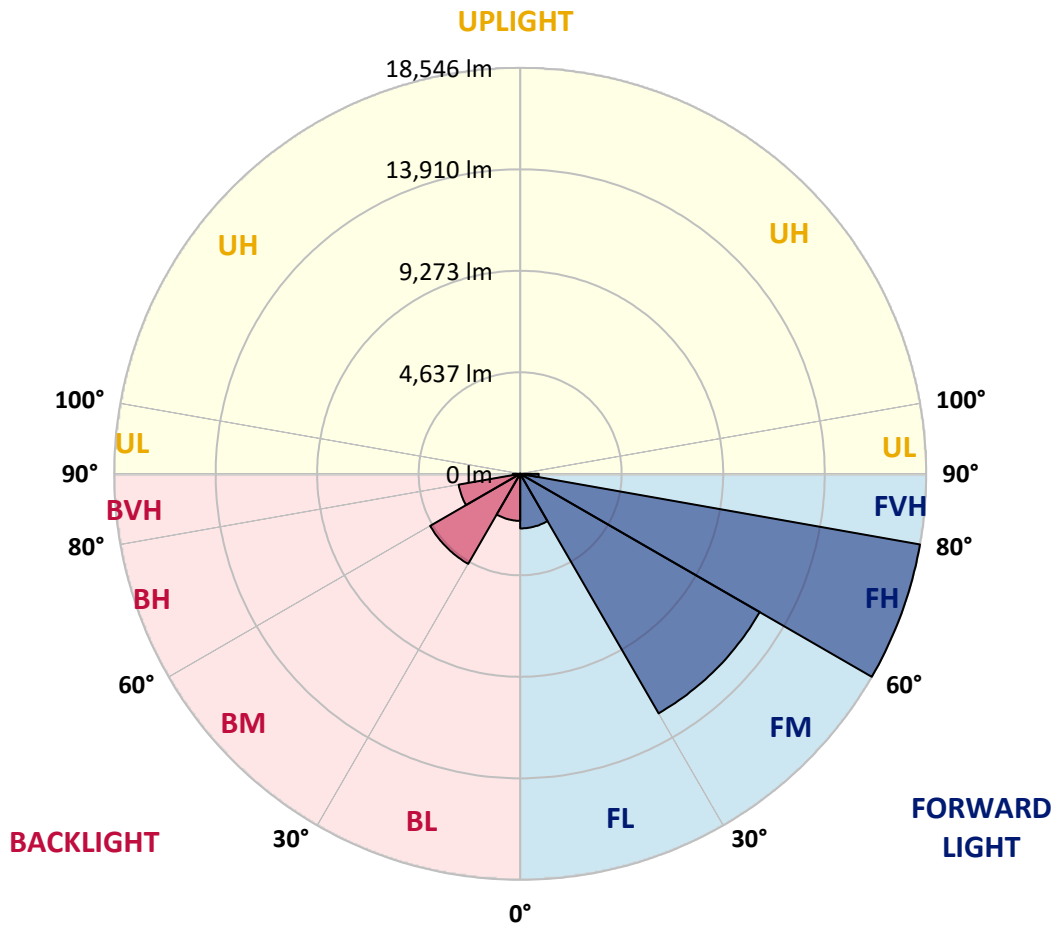
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2494.7	5.6			
FM (30°-60°)	12636.2	28.3			
FH (60°-80°)	18546.1	41.6			G5
FVH (80°-90°)	849.0	1.9			G5
BL (0°-30°)	2147.2	4.8	B3/2500		
BM (30°-60°)	4748.6	10.6	B3/5000		
BH (60°-80°)	2854.8	6.4	B4/5000		G4/5000
BVH (80°-90°)	334.4	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4
2.5°	4676.6	4707.2	4679.0	4653.1	4641.4	4610.8	4608.5	4589.7	4577.9	4545.0
5°	5003.3	5043.2	4996.2	4944.5	4897.5	4822.3	4812.9	4758.9	4697.8	4627.3
7.5°	5372.3	5407.5	5353.5	5275.9	5193.7	5069.1	5066.7	4968.0	4871.7	4751.8
10°	5694.2	5741.2	5668.4	5562.6	5459.2	5318.2	5301.8	5189.0	5066.7	4911.6
12.5°	5978.6	6011.5	5941.0	5811.7	5691.9	5550.9	5529.7	5405.2	5268.9	5092.6
15°	6204.2	6246.5	6152.5	6013.8	5886.9	5748.3	5729.5	5616.7	5480.4	5294.7
17.5°	6352.2	6387.5	6291.1	6136.0	6013.8	5898.7	5884.6	5790.6	5670.7	5482.7
20°	6408.6	6446.2	6345.2	6187.7	6074.9	5985.6	5978.6	5910.4	5828.2	5656.6
22.5°	6465.0	6500.3	6368.7	6204.2	6105.5	6049.1	6046.7	6002.1	5969.2	5828.2
25°	6693.0	6702.4	6526.1	6288.8	6147.8	6098.4	6096.1	6093.7	6107.8	5997.4
27.5°	6890.4	6888.1	6737.6	6514.4	6295.8	6192.4	6190.1	6213.6	6258.2	6166.6
30°	7179.5	7153.6	6975.0	6742.3	6542.6	6382.8	6368.7	6347.5	6382.8	6309.9
32.5°	7792.8	7710.6	7421.5	7007.9	6747.0	6624.8	6606.0	6474.4	6488.5	6443.9
35°	8671.8	8563.7	8178.2	7510.8	7000.9	6826.9	6817.5	6650.7	6622.5	6582.5
37.5°	9717.5	9583.6	9134.7	8239.3	7438.0	7062.0	7047.9	6897.5	6782.3	6740.0
40°	10768.0	10598.8	10227.5	9127.7	8081.9	7454.4	7409.8	7181.8	7050.2	6979.7
42.5°	11787.9	11646.9	11329.7	10124.1	8876.2	8027.8	7929.1	7539.0	7440.3	7374.5
45°	12690.4	12563.5	12330.8	11188.7	9806.8	8808.1	8711.7	8074.8	8044.3	8044.3
47.5°	13423.6	13395.4	13148.6	12274.4	10904.3	9696.4	9529.5	8819.8	8902.1	9029.0
50°	14236.7	14159.2	13896.0	13343.7	12194.5	10714.0	10577.7	9734.0	10041.8	10389.7
52.5°	14984.0	15026.3	14732.6	14457.6	13651.5	11849.0	11609.3	10812.7	11477.7	12053.5
55°	15752.5	15754.9	15672.6	15635.0	15179.1	13104.0	12840.8	12109.9	13167.4	13881.9
57.5°	16474.0	16478.7	16600.9	16932.2	16951.0	14551.6	14253.2	13703.3	15045.1	15773.7
60°	17117.9	17150.8	17484.5	18260.0	18509.1	16210.8	15928.8	15585.7	16986.3	17719.5
62.5°	17334.1	17454.0	18196.6	19298.8	20048.4	18245.9	17968.6	17764.2	19026.2	19707.7
65°	16967.5	17242.5	18678.3	20156.5	21632.4	20664.2	20389.2	20165.9	21145.9	21787.5
67.5°	16067.4	16422.3	18650.1	21056.6	23554.7	23573.5	23317.4	22793.3	23418.4	23665.2
70°	13696.2	14227.3	17007.4	21392.7	25761.5	27552.2	27305.4	25956.5	25686.3	24492.4
72.5°	8824.5	9538.9	12523.5	18626.6	26252.6	31295.9	31281.8	28811.8	26403.0	22885.0
75°	3219.6	3656.7	5818.8	11691.6	22036.6	31105.5	31197.2	28323.0	24102.3	17677.2
77.5°	1172.7	1283.1	1898.9	4493.3	13552.8	24957.7	25148.1	22642.9	17155.5	8871.5
80°	615.7	676.8	972.9	1743.8	5807.0	14821.9	15120.3	13456.5	8063.1	2672.0
82.5°	340.8	369.0	545.2	947.1	2615.6	6338.1	6516.7	5315.9	2836.5	1132.7
85°	183.3	195.1	256.2	517.0	1278.4	2197.3	2246.7	1588.6	1130.4	665.1
87.5°	54.1	65.8	84.6	164.5	500.6	493.5	505.3	314.9	446.5	336.1
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°
4500.4	0°	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4	4500.4
4535.6	2.5°	4521.5	4514.5	4488.6	4476.9	4462.8	4460.4	4472.2	4474.5	4476.9	4479.2
4587.3	5°	4563.8	4540.3	4516.8	4502.7	4507.4	4509.8	4533.3	4549.7	4561.5	4570.9
4683.7	7.5°	4646.1	4627.3	4587.3	4585.0	4592.0	4613.2	4643.7	4681.3	4702.5	4718.9
4808.2	10°	4768.3	4733.0	4686.0	4693.1	4707.2	4737.7	4801.2	4831.7	4867.0	4897.5
4961.0	12.5°	4892.8	4862.3	4808.2	4812.9	4836.4	4890.5	4951.6	4989.2	5012.7	5036.2
5125.5	15°	5055.0	5000.9	4942.2	4942.2	4984.5	5043.2	5071.4	5102.0	5116.1	5142.0
5301.8	17.5°	5221.9	5151.4	5073.8	5069.1	5120.8	5149.0	5165.5	5170.2	5174.9	5203.1
5473.3	20°	5388.7	5311.2	5200.7	5191.3	5203.1	5198.4	5196.0	5191.3	5198.4	5233.6
5649.6	22.5°	5553.2	5463.9	5311.2	5268.9	5236.0	5191.3	5189.0	5186.6	5191.3	5226.6
5839.9	25°	5745.9	5637.8	5433.4	5306.5	5196.0	5134.9	5142.0	5144.3	5149.0	5177.2
6037.3	27.5°	5955.1	5835.2	5546.2	5294.7	5094.9	5052.6	5040.9	5047.9	5064.4	5109.0
6234.7	30°	6164.2	6023.2	5649.6	5247.7	4968.0	4909.3	4871.7	4888.1	4939.8	4984.5
6406.3	32.5°	6354.6	6213.6	5731.8	5144.3	4805.9	4714.2	4664.9	4686.0	4737.7	4754.2
6596.6	35°	6577.8	6418.0	5767.1	4979.8	4629.6	4488.6	4422.8	4392.3	4418.1	4401.7
6819.9	37.5°	6826.9	6660.1	5762.4	4763.6	4422.8	4260.7	4169.0	4053.9	3999.8	3943.4
7148.9	40°	7195.9	6956.2	5706.0	4502.7	4166.7	4018.6	3854.1	3659.1	3536.9	3426.4
7680.0	42.5°	7698.8	7367.5	5602.6	4216.0	3877.6	3739.0	3515.7	3287.7	3095.0	2911.7
8486.1	45°	8448.5	7905.6	5473.3	3910.5	3565.1	3428.8	3186.7	2930.5	2712.0	2477.0
9630.6	47.5°	9529.5	8629.5	5351.1	3562.7	3236.0	3111.5	2892.9	2655.6	2397.1	2169.1
11285.0	50°	11014.8	9668.2	5238.3	3224.3	2911.7	2817.7	2643.8	2401.8	2140.9	1957.6
13223.8	52.5°	12904.2	11080.6	5191.3	2897.6	2608.6	2573.3	2434.7	2209.1	1962.3	1807.2
15484.6	55°	15073.3	12770.3	5191.3	2585.1	2343.0	2354.8	2258.4	2049.3	1835.4	1696.7
17815.9	57.5°	17287.1	14481.1	5097.3	2296.0	2117.4	2166.8	2105.7	1922.4	1729.7	1586.3
20267.0	60°	19327.0	15914.7	4716.6	2032.8	1917.7	1995.2	1955.3	1797.8	1562.8	1442.9
22316.3	62.5°	20894.5	16723.1	3983.4	1823.7	1753.2	1842.5	1821.3	1633.3	1532.2	1482.9
23998.9	65°	21679.4	16591.5	3045.7	1638.0	1614.5	1753.2	1708.5	1701.4	1621.5	1565.1
24546.5	67.5°	21197.6	15458.8	2209.1	1501.7	1534.6	1670.9	1842.5	1870.7	1722.6	1612.1
23004.8	70°	19084.9	13409.5	1645.0	1372.4	1433.5	1673.2	2101.0	1957.6	1689.7	1560.4
18450.4	72.5°	14518.7	9999.5	1276.1	1236.1	1301.9	1685.0	2216.1	1917.7	1595.7	1725.0
11494.2	75°	8302.8	5489.8	1024.6	1069.3	1137.4	1574.5	2157.4	1814.3	1522.8	1583.9
4554.4	77.5°	3165.5	2110.4	846.0	904.8	914.2	1374.8	2063.4	1807.2	1450.0	1414.7
1365.4	80°	1097.5	824.9	700.3	719.1	707.4	1222.0	1978.8	1572.2	1186.8	1062.2
564.0	82.5°	448.9	411.3	554.6	531.1	502.9	949.4	1598.0	1285.5	970.6	857.8
272.6	85°	195.1	260.9	366.6	322.0	291.4	658.0	1280.8	1088.1	820.2	707.4
89.3	87.5°	40.0	98.7	155.1	145.7	150.4	439.5	909.5	773.2	580.5	434.8
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°  
4500.4  
4488.6  
4575.6  
4723.6  
4890.5  
5045.6  
5151.4  
5212.5  
5247.7  
5250.1  
5214.8  
5153.7  
5033.8  
4812.9  
4453.4  
3978.7  
3433.5  
2895.3  
2448.8  
2143.3  
1945.9  
1795.5  
1682.6  
1562.8  
1424.1  
1466.4  
1546.3  
1593.3  
1539.3  
*1710.9*  
1583.9  
1290.2  
1027.0  
848.4  
705.0  
340.8  
0.0

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