

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: P956772

Luminaire Tested: **GALN-SB9B-827-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956772  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9B-827-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

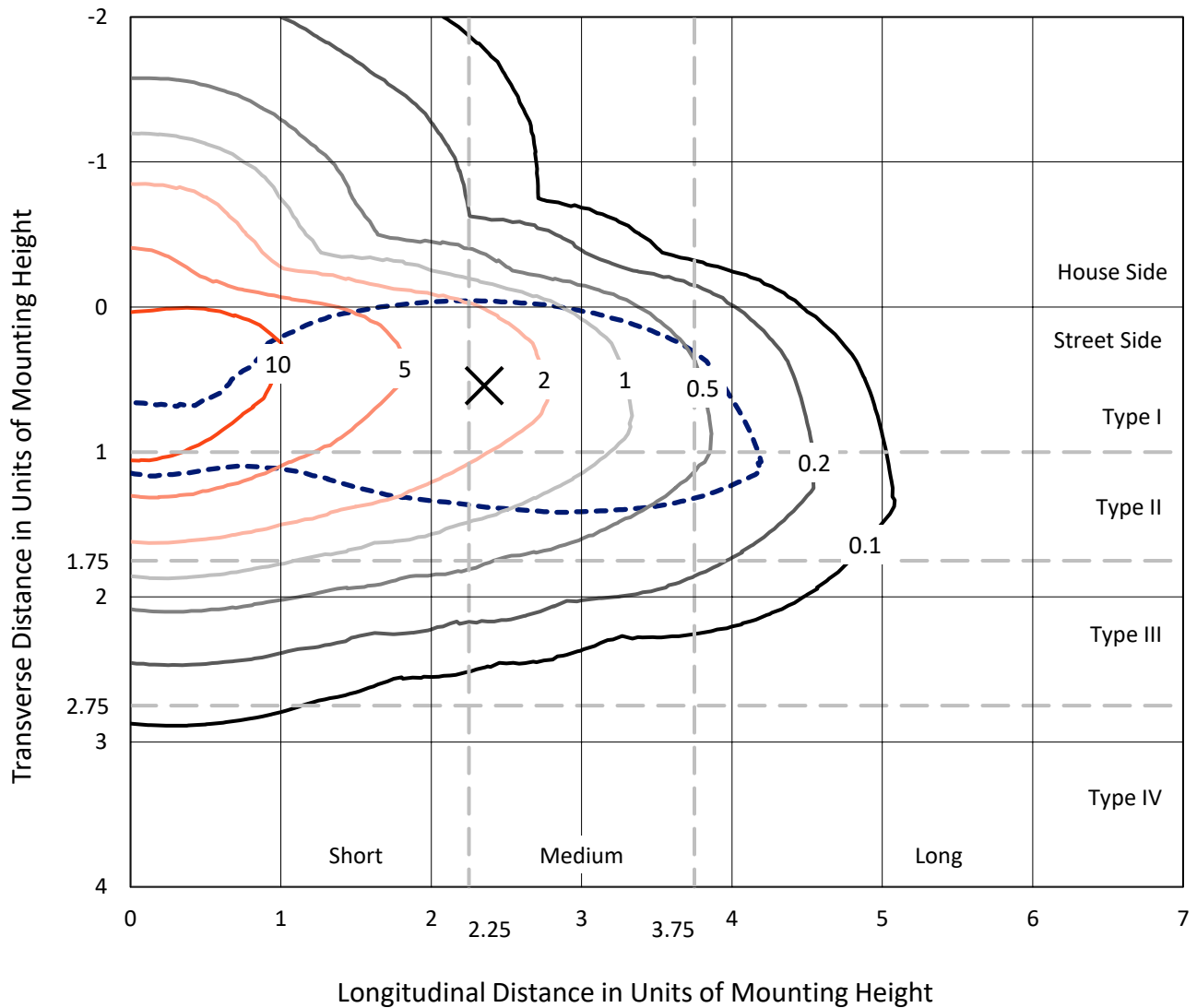
Lumens per Lamp: N/A  
Luminaire Lumens: 45427 lumens  
Efficiency: N/A  
Efficacy: 137.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

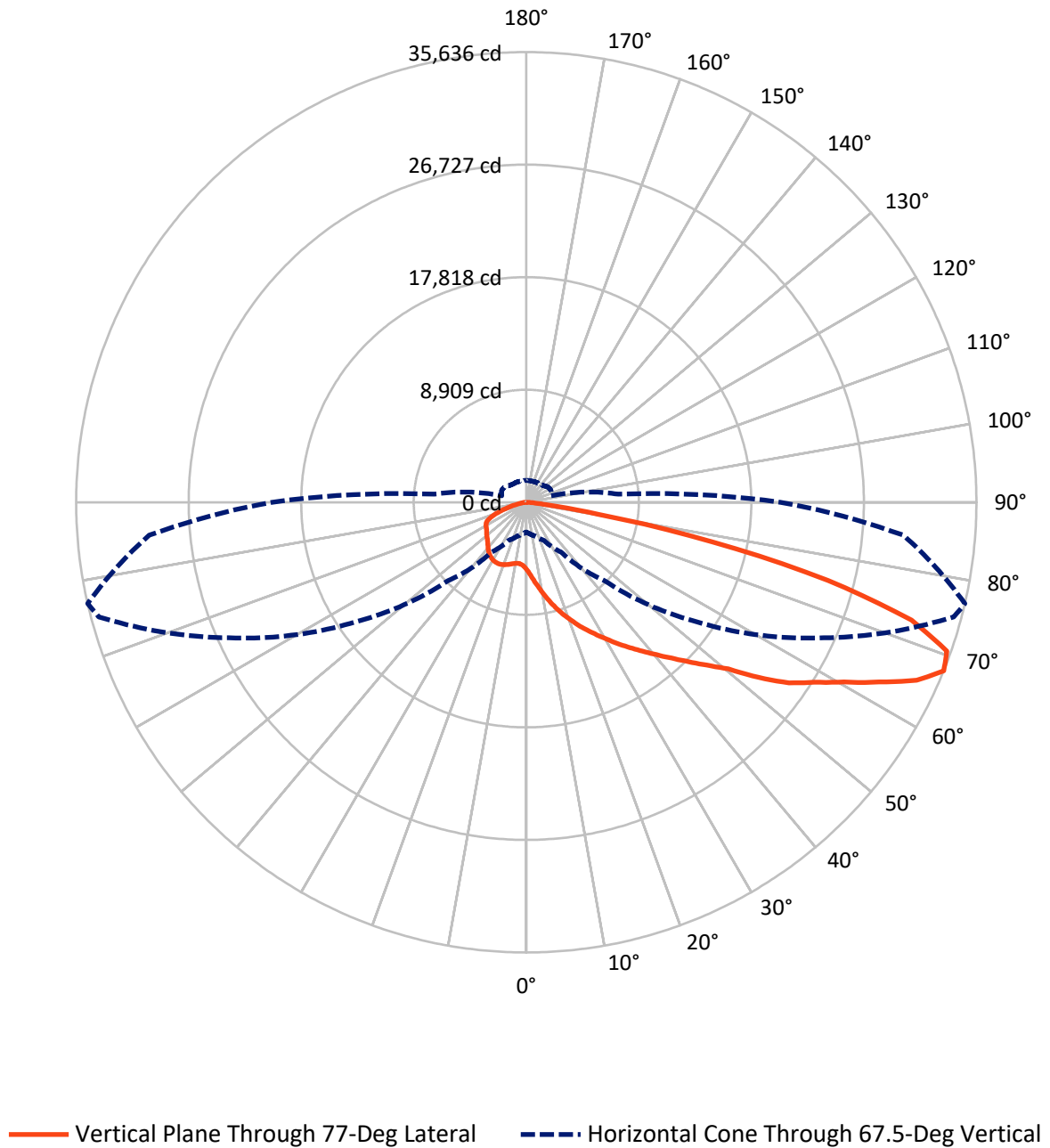
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8593.0	0.0	8593.0
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	36834.0	0.0	36834.0
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	45427.0	0.0	45427.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	571.3	1.3
10°-20°	2052.5	4.5
20°-30°	3875.3	8.5
30°-40°	6243.0	13.7
40°-50°	8539.3	18.8
50°-60°	9632.3	21.2
60°-70°	8990.6	19.8
70°-80°	4928.4	10.8
80°-90°	594.5	1.3
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°	45427.0	100.0
0°-180°	45427.0	100.0

**Coefficient of Utilization**



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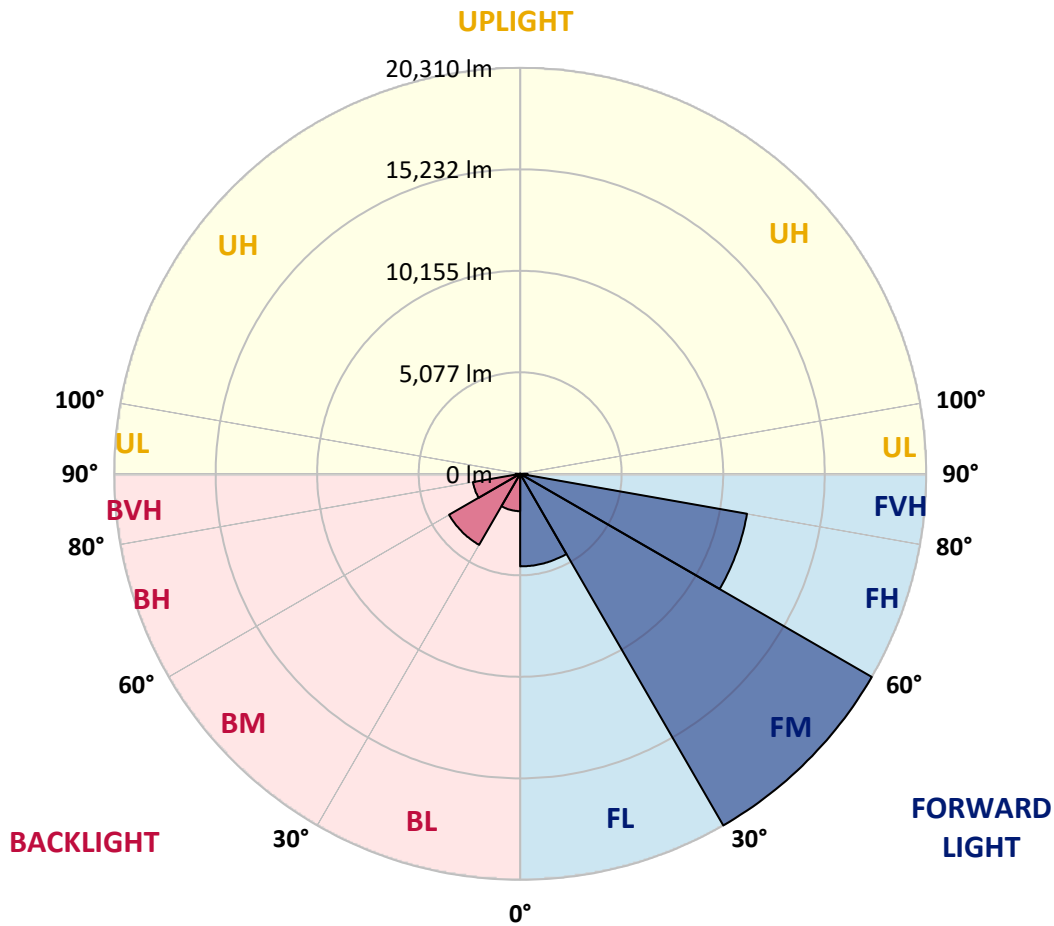
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4630.7	10.2			
FM (30°-60°)	20309.9	44.7			
FH (60°-80°)	11521.6	25.4			G4/12000
FVH (80°-90°)	371.8	0.8			G3/500
BL (0°-30°)	1868.3	4.1	B3/2500		
BM (30°-60°)	4104.6	9.0	B3/5000		
BH (60°-80°)	2397.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	222.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5330.0	5330.0	5330.0	5330.0	5330.0	5330.0	5330.0	5330.0	5330.0	5330.0
2.5°	6673.6	6720.5	6661.9	6661.9	6464.9	6361.8	6164.8	6014.7	5745.0	5698.2
5°	7888.3	7946.9	7864.9	7829.7	7597.5	7384.1	7053.5	6727.6	6246.9	6197.6
7.5°	8828.6	8903.7	8831.0	8793.4	8587.1	8347.9	7961.0	7506.1	6828.4	6732.3
10°	9595.4	9607.1	9583.7	9597.7	9435.9	9239.0	8842.7	8312.7	7466.2	7334.9
12.5°	10029.2	10083.1	10130.0	10214.5	10186.3	10064.4	9708.0	9074.8	8141.6	7972.7
15°	10233.2	10327.0	10432.5	10627.2	10784.3	10814.8	10542.8	9893.2	8828.6	8624.6
17.5°	10305.9	10395.0	10561.5	10842.9	11180.6	11408.0	11286.1	10688.1	9508.6	9274.2
20°	10674.1	10699.9	10800.7	11068.0	11433.8	11811.4	11902.8	11452.6	10181.6	9916.7
22.5°	11462.0	11410.4	11438.5	11560.4	11823.1	12188.9	12397.6	12127.9	10873.4	10568.5
25°	12763.4	12613.3	12463.2	12322.5	12456.2	12662.6	12899.4	12803.3	11598.0	11211.1
27.5°	14407.2	14224.3	13893.6	13431.7	13269.9	13342.6	13448.1	13429.3	12268.6	11877.0
30°	16025.2	15811.8	15417.8	14749.5	14322.8	14130.5	14050.7	13996.8	12997.9	12580.5
32.5°	17317.2	17148.4	16761.5	16013.4	15394.4	15066.1	14801.1	14608.8	13760.0	13342.6
35°	18447.5	18290.4	17847.2	17031.1	16358.1	16008.8	15661.7	15251.3	14552.6	14130.5
37.5°	19479.2	19322.1	18714.8	17865.9	17188.2	16946.7	16637.2	15940.8	15347.5	14948.9
40°	20131.1	20095.9	19528.5	18567.1	17863.6	17744.0	17640.8	16740.4	16229.2	15858.7
42.5°	20297.6	20375.0	19924.8	19134.5	18463.9	18367.7	18609.3	17645.5	17218.7	16864.6
45°	19896.6	20119.4	19823.9	19286.9	18890.7	18839.1	19467.5	18635.1	18313.8	17990.2
47.5°	18881.3	19258.8	19136.9	19061.8	19005.6	19228.3	20222.6	19685.6	19554.3	19272.9
50°	16831.8	17547.0	17760.4	18234.1	18778.1	19530.8	20909.6	20832.3	21003.4	20719.7
52.5°	13288.6	14273.5	15511.6	16698.2	18079.3	19430.0	21664.7	22478.4	23200.6	23045.9
55°	10969.5	11412.7	12364.8	14540.8	16724.0	19005.6	22004.7	23808.0	25381.4	25243.0
57.5°	9187.4	9583.7	10169.9	11987.2	14674.5	18041.8	22215.8	24619.3	26875.1	26861.0
60°	7276.3	7696.0	8296.3	9583.7	12280.3	16376.9	22168.9	25543.2	28781.5	28898.8
62.5°	5119.0	5580.9	6246.9	7447.5	9834.6	14219.6	21212.1	26211.5	31025.6	31344.5
65°	3365.0	3669.8	4171.6	5208.1	7327.9	11445.5	19385.4	26298.3	33426.8	33966.1
67.5°	2359.0	2476.2	2771.7	3334.5	4830.5	8777.0	16475.4	25400.2	35028.4	35635.7
70°	1840.8	1899.4	2049.5	2274.6	3034.3	5902.2	12625.0	23064.6	34686.0	35319.2
72.5°	1589.9	1646.1	1702.4	1730.5	2035.4	3644.0	8551.9	19284.6	31461.8	31890.9
75°	1442.1	1456.2	1503.1	1493.7	1552.3	2363.7	4936.1	14050.7	24823.3	24675.6
77.5°	1212.3	1231.1	1308.5	1296.7	1378.8	1615.6	2563.0	9067.8	16093.2	15089.5
80°	1027.1	1036.5	1120.9	1106.8	1198.3	1170.1	1308.5	4621.8	6826.1	5782.6
82.5°	356.4	440.8	855.9	881.7	914.5	708.2	755.1	1885.3	2084.6	1596.9
85°	173.5	185.2	436.2	619.1	616.7	356.4	368.2	673.0	656.6	515.9
87.5°	28.1	35.2	51.6	241.5	192.3	93.8	126.6	131.3	136.0	117.2
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°
5330.0	0°	5330.0	5330.0	5330.0	5330.0	5330.0	5330.0	5330.0	5330.0	5330.0	5330.0
5519.9	2.5°	5388.6	5271.4	5025.2	4797.7	4619.5	4448.3	4352.2	4270.1	4223.2	4213.8
5777.9	5°	5534.0	5292.5	4844.6	4467.1	4220.9	4037.9	3941.8	3880.8	3850.4	3831.6
6124.9	7.5°	5742.7	5388.6	4750.8	4321.7	4063.7	3932.4	3883.2	3873.8	3871.5	3873.8
6544.7	10°	6031.1	5545.7	4741.4	4286.5	4070.8	3998.1	3995.7	3998.1	4007.5	4009.8
7001.9	12.5°	6343.0	5707.5	4778.9	4317.0	4159.9	4120.0	4113.0	4110.6	4117.7	4122.4
7463.9	15°	6683.0	5920.9	4842.3	4382.7	4258.4	4216.2	4209.1	4195.1	4192.7	4190.4
7949.3	17.5°	7032.4	6132.0	4912.6	4453.0	4321.7	4263.1	4237.3	4204.4	4178.6	4171.6
8451.1	20°	7386.5	6340.7	4961.8	4488.2	4326.4	4244.3	4192.7	4136.4	4091.9	4066.1
8957.6	22.5°	7764.0	6558.7	4992.3	4478.8	4284.2	4171.6	4077.8	4012.2	3944.2	3899.6
9468.8	25°	8132.2	6748.7	4990.0	4429.5	4202.1	4059.1	3939.5	3855.0	3761.2	3714.3
9996.4	27.5°	8486.3	6919.9	4931.4	4342.8	4084.8	3925.4	3782.4	3681.5	3590.1	3545.5
10528.7	30°	8852.1	7062.9	4839.9	4216.2	3946.5	3770.6	3613.5	3526.8	3444.7	3402.5
11091.5	32.5°	9215.5	7194.2	4710.9	4059.1	3787.0	3618.2	3463.4	3383.7	3334.5	3334.5
11696.5	35°	9600.1	7285.7	4539.8	3876.1	3618.2	3456.4	3334.5	3287.6	3282.9	3254.7
12336.6	37.5°	10005.8	7344.3	4331.1	3688.6	3451.7	3299.3	3261.8	3205.5	3158.6	3097.6
13040.1	40°	10432.5	7402.9	4080.2	3493.9	3275.9	3191.4	3175.0	3100.0	2966.3	2816.2
13837.4	42.5°	10950.8	7442.8	3819.9	3299.3	3090.6	3062.5	3085.9	2956.9	2743.6	2631.0
14798.8	45°	11551.1	7508.4	3580.7	3107.0	2900.7	2900.7	2999.1	2830.3	2654.4	2584.1
15896.2	47.5°	12329.6	7660.8	3357.9	2896.0	2724.8	2771.7	2806.9	2677.9	2579.4	2492.6
17232.8	50°	13455.1	8026.7	3128.1	2682.6	2591.1	2684.9	2635.7	2560.7	2445.7	2375.4
19357.3	52.5°	14852.7	8242.4	2924.1	2490.3	2476.2	2570.0	2499.7	2429.3	2342.6	2248.8
20968.3	55°	15804.7	8282.3	2752.9	2349.6	2398.9	2389.5	2363.7	2300.4	2253.5	2129.2
22558.1	57.5°	16869.3	8362.0	2612.2	2265.2	2349.6	2246.4	2237.1	2183.1	2122.2	2037.7
24497.4	60°	18142.6	8486.3	2490.3	2232.4	2307.4	2152.6	2105.7	2084.6	2023.7	1981.5
26830.6	62.5°	19530.8	8598.8	2366.0	2237.1	2258.2	2061.2	1990.8	1983.8	1946.3	1932.2
29020.7	65°	20478.2	8291.6	2211.3	2232.4	2180.8	1967.4	1878.3	1875.9	1845.5	1840.8
29970.4	67.5°	20147.5	7318.5	2002.6	2166.7	2101.0	1873.6	1775.1	1765.7	1725.9	1728.2
28978.5	70°	18492.0	5930.3	1714.1	2004.9	2002.6	1789.2	1667.2	1636.8	1582.8	1592.2
25196.1	72.5°	15387.4	4394.4	1327.2	1735.2	1845.5	1711.8	1543.0	1493.7	1425.7	1435.1
18599.9	75°	11112.6	2987.4	966.1	1320.2	1606.3	1620.3	1421.0	1336.6	1254.5	1268.6
10352.8	77.5°	5686.4	1693.0	710.5	909.8	1261.6	1472.6	1310.8	1198.3	1179.5	1310.8
2985.1	80°	1854.8	848.9	492.4	637.8	827.8	1205.3	1149.0	1020.0	1015.3	1045.8
626.1	82.5°	553.4	358.8	316.6	419.7	457.3	923.9	991.9	771.5	663.6	698.8
208.7	85°	189.9	173.5	180.6	208.7	218.1	541.7	694.1	511.2	483.1	532.3
46.9	87.5°	44.6	61.0	51.6	46.9	46.9	131.3	269.7	213.4	295.5	197.0
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°  
5330.0  
4213.8  
3829.3  
3880.8  
4012.2  
4124.7  
4188.0  
4178.6  
4075.5  
3901.9  
3714.3  
3543.2  
3400.1  
3336.8  
3247.7  
3088.3  
2795.1  
2633.3  
2595.8  
2490.3  
2368.4  
2230.0  
2131.5  
2009.6  
1993.2  
1932.2  
1838.4  
1728.2  
1601.6  
1432.7  
1273.3  
1292.0  
898.1  
722.2  
525.3  
189.9  
0.0

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