

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: P943045

Luminaire Tested: **GALN-SB7B-830-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943045  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-830-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35654 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

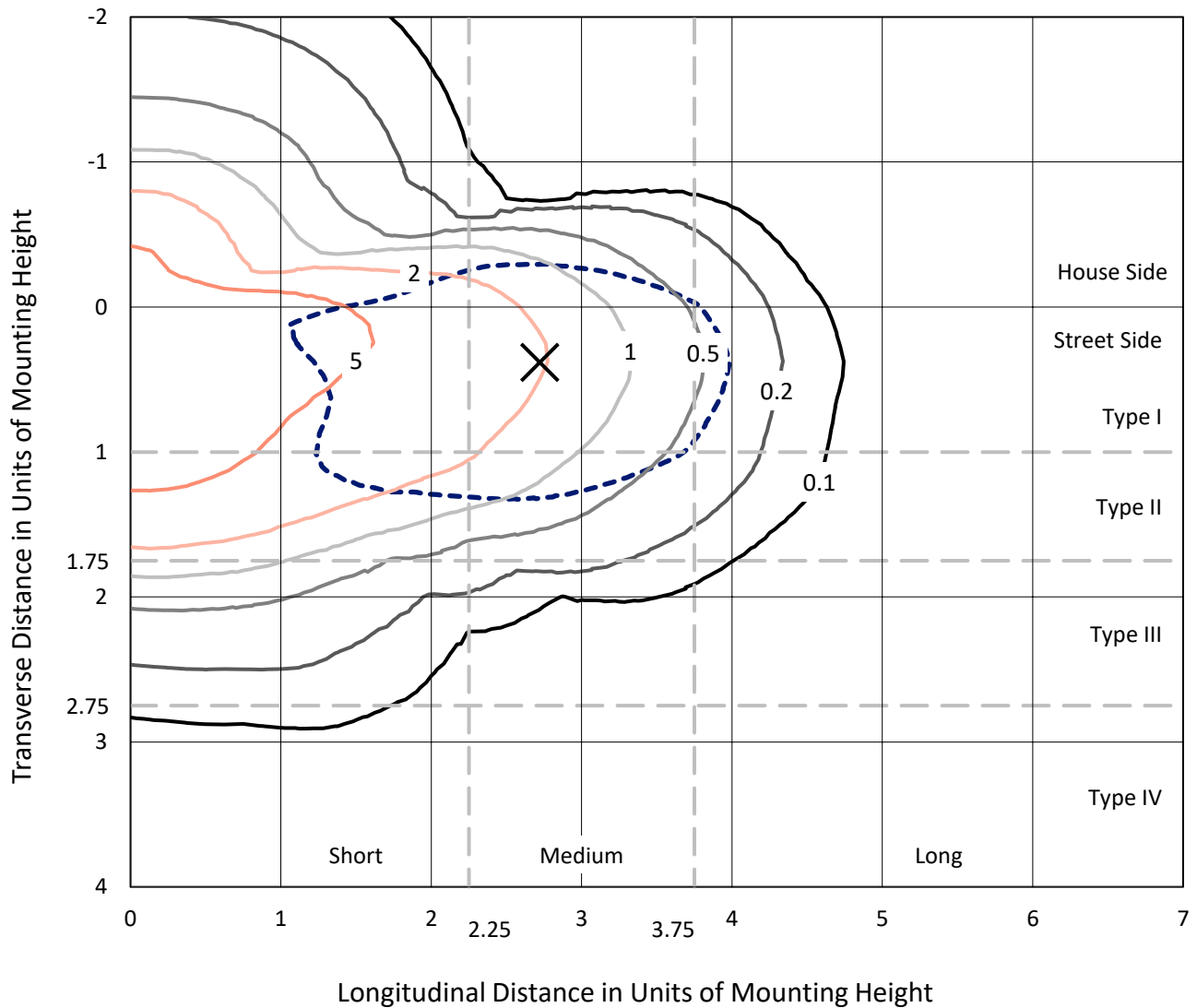
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

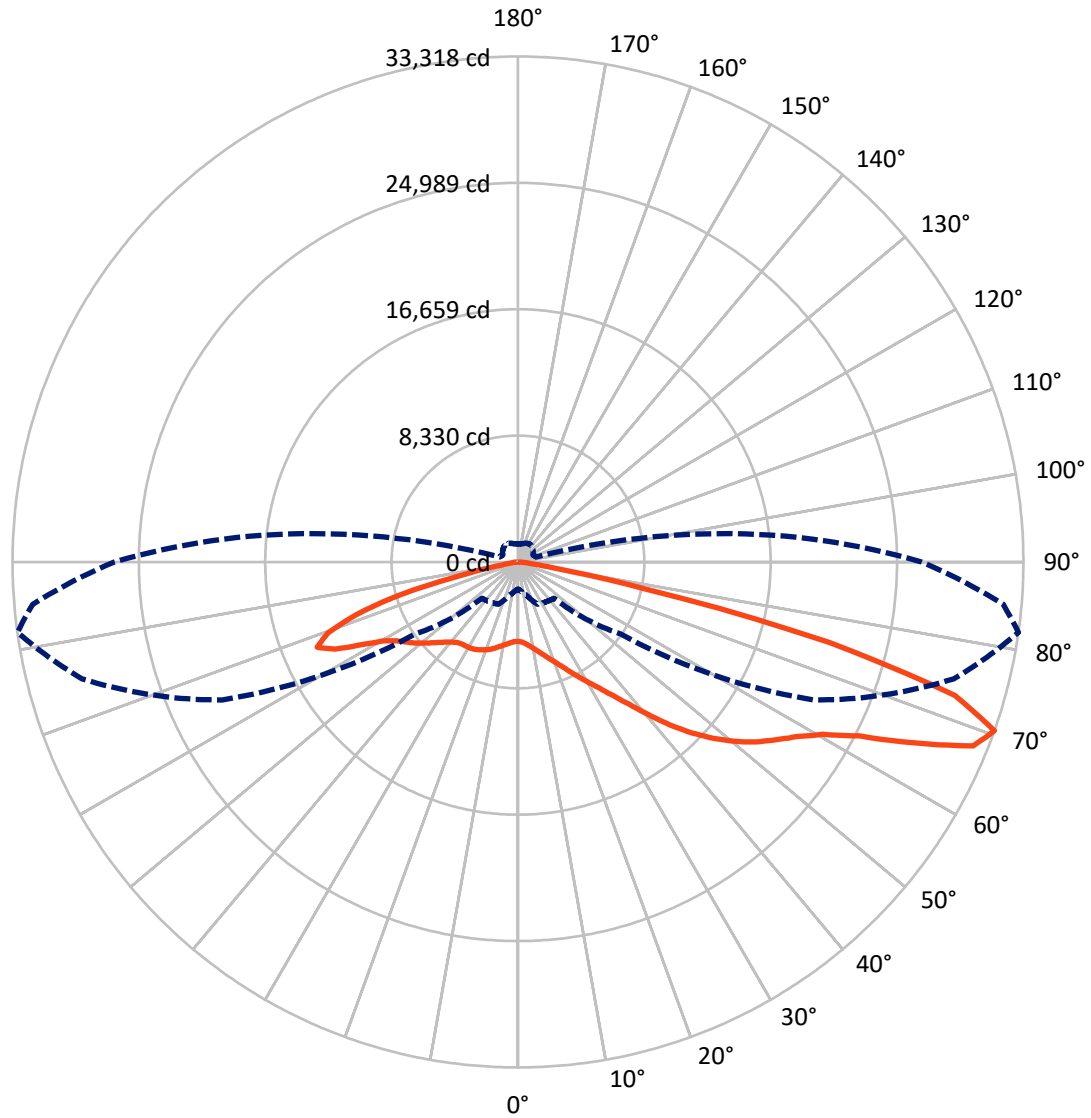
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8789.6	0.0	8789.6
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	26864.4	0.0	26864.4
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	35654.0	0.0	35654.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	493.6	1.4
10°-20°	1418.0	4.0
20°-30°	2372.2	6.7
30°-40°	3706.0	10.4
40°-50°	5902.2	16.6
50°-60°	8213.6	23.0
60°-70°	8591.8	24.1
70°-80°	4490.5	12.6
80°-90°	466.3	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°	35654.0	100.0
0°-180°	35654.0	100.0

**Coefficient of Utilization**



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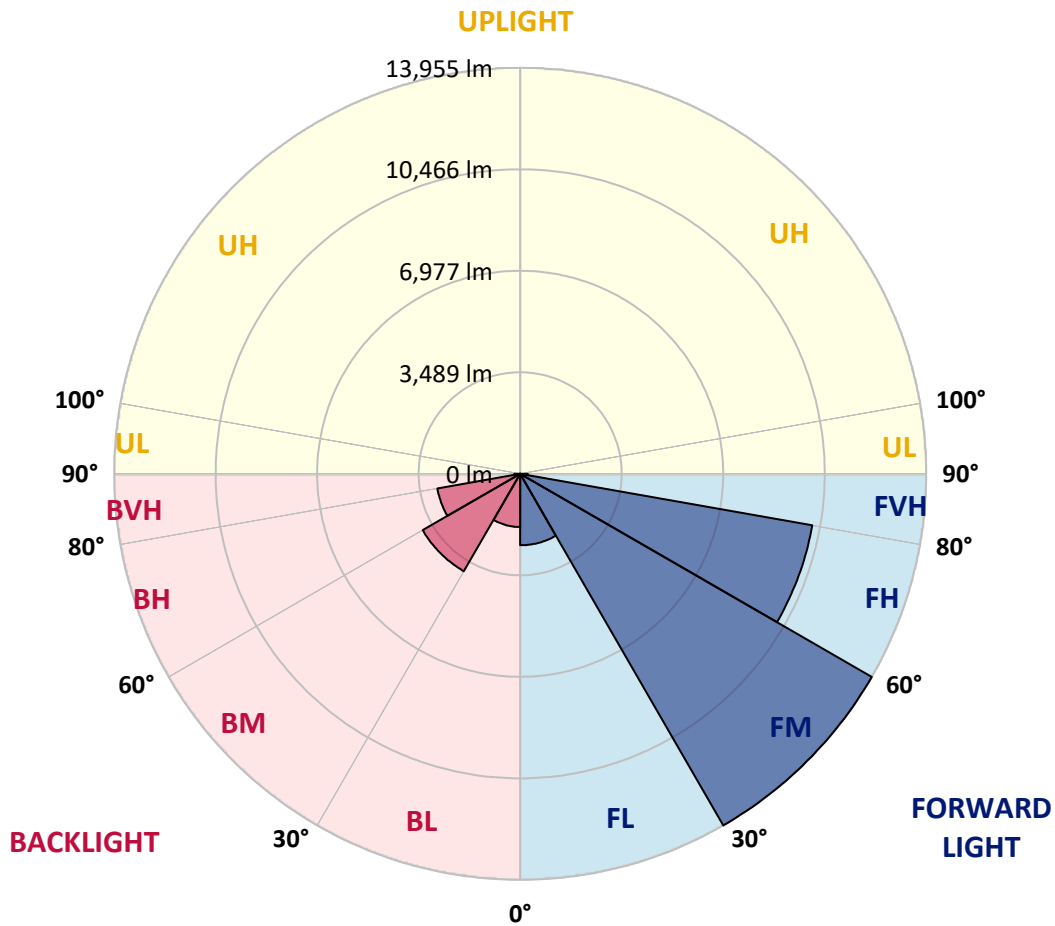
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2455.2	6.9			
FM (30°-60°)	13954.6	39.1			
FH (60°-80°)	10193.6	28.6			G4/12000
FVH (80°-90°)	261.0	0.7			G3/500
BL (0°-30°)	1828.6	5.1	B3/2500		
BM (30°-60°)	3867.1	10.8	B3/5000		
BH (60°-80°)	2888.7	8.1	B4/5000		G4/5000
BVH (80°-90°)	205.3	0.6			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5227.3	5227.3	5227.3	5227.3	5227.3	5227.3	5227.3	5227.3	5227.3	5227.3
2.5°	5352.2	5382.5	5373.0	5363.5	5363.5	5350.3	5348.4	5329.5	5314.3	5289.8
5°	5420.3	5452.5	5448.7	5456.2	5480.8	5486.5	5492.2	5480.8	5450.6	5420.3
7.5°	5359.8	5395.7	5407.1	5452.5	5528.1	5596.2	5647.3	5668.1	5639.8	5596.2
10°	5155.4	5195.2	5234.9	5342.7	5477.1	5637.9	5774.1	5855.4	5849.8	5808.1
12.5°	4741.1	4782.7	4867.9	5077.9	5323.8	5607.6	5861.1	6031.4	6090.0	6059.8
15°	4410.0	4446.0	4510.3	4726.0	5045.7	5477.1	5893.3	6224.4	6373.8	6356.8
17.5°	4400.6	4415.7	4455.4	4557.6	4803.5	5272.7	5859.2	6413.5	6699.2	6697.3
20°	4567.0	4572.7	4595.4	4616.2	4756.2	5117.6	5772.2	6570.6	7064.4	7064.4
22.5°	4797.9	4794.1	4816.8	4797.9	4866.0	5104.3	5717.3	6708.7	7471.1	7501.4
25°	5144.1	5125.2	5119.5	5076.0	5089.2	5227.3	5777.9	6865.7	7953.6	8016.0
27.5°	5605.7	5575.4	5554.6	5454.4	5420.3	5480.8	5963.3	7054.9	8490.9	8598.7
30°	6207.3	6152.5	6122.2	5948.1	5825.2	5834.6	6243.3	7306.5	9052.7	9226.8
32.5°	7028.4	6943.3	6861.9	6576.2	6351.1	6277.3	6604.6	7654.6	9661.9	9940.0
35°	7947.9	7879.8	7792.7	7351.9	7005.7	6835.4	7092.7	8140.8	10375.2	10816.0
37.5°	8833.3	8774.6	8816.3	8222.2	7775.7	7527.9	7732.2	8793.6	11254.9	11905.7
40°	9749.0	9703.6	9709.2	9141.7	8621.4	8343.3	8507.9	9612.7	12263.3	13201.7
42.5°	10744.1	10710.1	10596.5	10093.3	9508.7	9249.5	9400.9	10558.7	13345.5	14677.4
45°	11858.4	11837.6	11731.7	11154.6	10484.9	10193.6	10397.9	11603.0	14433.3	16066.0
47.5°	12821.4	12838.4	12825.2	12339.0	11644.7	11217.1	11461.1	12692.8	15445.5	17371.4
50°	13284.9	13373.8	13504.4	13353.0	12921.7	12486.5	12533.8	13744.7	16410.3	18595.5
52.5°	13042.8	13211.1	13566.8	13809.0	13975.5	13884.7	13757.9	14789.0	17318.5	19700.4
55°	12140.3	12376.8	12967.1	13551.7	14401.1	15061.4	15227.9	15946.8	18203.9	20672.8
57.5°	10496.3	10880.3	11410.1	12592.5	14022.8	15630.9	16942.0	17553.1	19142.3	21711.5
60°	7677.3	8191.9	8850.3	10609.8	12698.4	15326.3	18400.6	20020.1	20476.0	23056.6
62.5°	4913.3	5231.1	5836.5	7493.8	9894.6	13765.5	18847.1	23103.9	22736.9	25262.6
65°	3363.8	3568.1	4122.5	5053.3	6396.5	10246.5	17651.4	25415.8	26327.7	28758.8
67.5°	2444.3	2599.5	3072.4	3887.9	4167.9	6063.5	13697.4	25309.9	29818.3	32361.0
70°	1782.2	1891.9	2289.2	3072.4	3206.8	3373.3	8297.9	21514.7	29742.6	33318.3
72.5°	1320.5	1396.2	1663.0	2383.8	2595.7	2277.8	4107.3	15636.6	25557.7	30136.1
75°	955.4	1012.2	1208.9	1823.8	2077.3	1734.9	2048.9	9137.9	17827.4	21198.7
77.5°	730.3	773.8	902.4	1335.7	1663.0	1301.6	1271.4	4203.8	8453.0	8494.6
80°	586.5	614.9	684.9	940.3	1275.1	974.3	828.7	1697.0	2671.4	2260.8
82.5°	431.4	478.7	578.9	660.3	911.9	671.6	505.1	857.0	1016.0	874.1
85°	245.9	278.1	350.0	473.0	582.7	410.5	289.5	380.3	473.0	387.8
87.5°	87.0	113.5	123.0	185.4	253.5	170.3	111.6	109.7	155.1	115.4
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°
5227.3	0°	5227.3	5227.3	5227.3	5227.3	5227.3	5227.3	5227.3	5227.3	5227.3	5227.3
5284.1	2.5°	5265.2	5255.7	5217.9	5166.8	5113.8	5062.7	5045.7	5009.8	4985.2	4971.9
5407.1	5°	5371.1	5340.8	5251.9	5138.4	5019.2	4890.6	4799.8	4716.5	4656.0	4599.2
5575.4	7.5°	5522.5	5469.5	5316.2	5117.6	4905.7	4691.9	4533.0	4411.9	4330.6	4277.6
5772.2	10°	5698.4	5617.1	5382.5	5085.4	4758.1	4451.6	4264.3	4160.3	4109.2	4080.8
5997.3	12.5°	5900.8	5785.4	5450.6	5011.6	4533.0	4183.0	4054.3	4024.1	4026.0	4027.9
6281.1	15°	6150.6	5989.8	5505.4	4850.8	4239.7	3976.8	3954.1	4003.3	4054.3	4078.9
6602.7	17.5°	6432.5	6205.4	5514.9	4586.0	3952.2	3844.3	3916.2	4022.2	4099.7	4133.8
6962.2	20°	6735.2	6424.9	5446.8	4211.4	3715.7	3736.5	3865.2	4001.4	4086.5	4130.0
7372.7	22.5°	7081.4	6659.5	5284.1	3817.9	3522.7	3619.2	3770.6	3903.0	3991.9	4035.4
7855.2	25°	7476.8	6922.5	5028.7	3486.8	3356.2	3486.8	3638.1	3747.9	3819.7	3859.5
8394.4	27.5°	7915.7	7196.8	4688.1	3223.8	3210.6	3350.6	3475.4	3560.6	3598.4	3628.7
8967.6	30°	8356.5	7446.5	4275.7	3025.1	3083.8	3216.2	3305.2	3343.0	3354.3	3360.0
9607.1	32.5°	8833.3	7662.2	3842.5	2860.6	2962.7	3085.7	3138.7	3155.7	3102.7	3066.8
10382.8	35°	9410.3	7893.0	3418.7	2730.0	2843.5	2949.5	2966.5	2951.4	2888.9	2815.1
11355.2	37.5°	10123.6	8180.6	3080.0	2637.3	2731.9	2801.9	2781.1	2777.3	2783.0	2696.0
12524.4	40°	10997.6	8555.2	2832.2	2565.4	2641.1	2656.2	2597.6	2629.7	2658.1	2525.7
13807.1	42.5°	11968.2	9007.3	2675.1	2516.2	2565.4	2529.5	2438.7	2474.6	2470.8	2296.8
15095.5	45°	12957.6	9499.2	2620.3	2480.3	2495.4	2423.5	2323.3	2332.7	2253.3	2096.2
16330.9	47.5°	13941.4	10027.1	2654.3	2450.0	2408.4	2327.0	2249.5	2207.8	2090.6	1973.3
17515.2	50°	14906.3	10581.4	2779.2	2389.5	2289.2	2241.9	2185.1	2111.4	1986.5	1886.2
18635.2	52.5°	15801.2	11139.5	2919.2	2289.2	2139.7	2168.1	2132.2	2047.0	1924.1	1821.9
19694.7	55°	16648.7	11697.6	2974.1	2151.1	1999.7	2103.8	2083.0	1926.0	1778.4	1695.1
20803.3	57.5°	17572.0	12369.2	2913.5	1975.1	1886.2	2030.0	1950.5	1776.5	1691.4	1628.9
22246.9	60°	18850.9	13423.0	2783.0	1757.6	1778.4	1920.3	1784.1	1712.2	1619.5	1549.5
24411.2	62.5°	20975.5	15388.7	2573.0	1541.9	1651.6	1757.6	1704.6	1632.7	1538.1	1470.0
28111.8	65°	24116.1	18120.6	2177.6	1373.5	1509.7	1598.7	1619.5	1547.6	1449.2	1377.3
31354.5	67.5°	26764.7	19834.7	1647.8	1233.5	1364.1	1470.0	1528.7	1458.7	1354.6	1284.6
<b>32113.1</b>	<b>70°</b>	<b>26619.0</b>	<b>18589.8</b>	<b>1258.1</b>	<b>1095.4</b>	<b>1235.4</b>	<b>1343.2</b>	<b>1418.9</b>	<b>1364.1</b>	<b>1252.4</b>	<b>1186.2</b>
29169.3	72.5°	23643.1	15551.4	1017.8	955.4	1104.9	1210.8	1301.6	1260.0	1146.5	1082.2
21369.0	75°	17369.5	11039.2	813.5	813.5	942.2	1072.7	1173.0	1146.5	1042.4	997.0
8971.4	77.5°	7321.7	4631.4	637.6	675.4	783.2	921.4	1046.2	1055.7	964.9	1021.6
2372.4	80°	1946.8	1277.0	486.2	531.6	614.9	760.5	910.0	906.2	807.8	754.9
881.6	82.5°	741.6	503.2	346.2	374.6	444.6	582.7	720.8	743.5	645.1	558.1
346.2	85°	285.7	215.7	213.8	225.1	259.2	385.9	544.9	563.8	486.2	412.4
96.5	87.5°	73.8	64.3	79.5	75.7	119.2	206.2	312.2	323.5	297.0	172.2
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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<u>180°</u>
5227.3
4987.1
4621.9
4288.9
4088.4
4031.6
4077.0
4141.4
4141.4
4046.8
3870.8
3640.0
3373.3
3078.1
2818.9
2701.6
2529.5
2294.9
2101.9
1973.3
1878.7
1823.8
1687.6
1623.3
1545.7
1470.0
1381.1
1286.5
1191.9
1082.2
983.8
927.0
701.9
558.1
425.7
245.9
0.0

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