

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: P943585

Luminaire Tested: **GALN-SB8A-850-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943585  
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-SB8A-850-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34378 lumens  
Efficiency: N/A  
Efficacy: 151.4 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

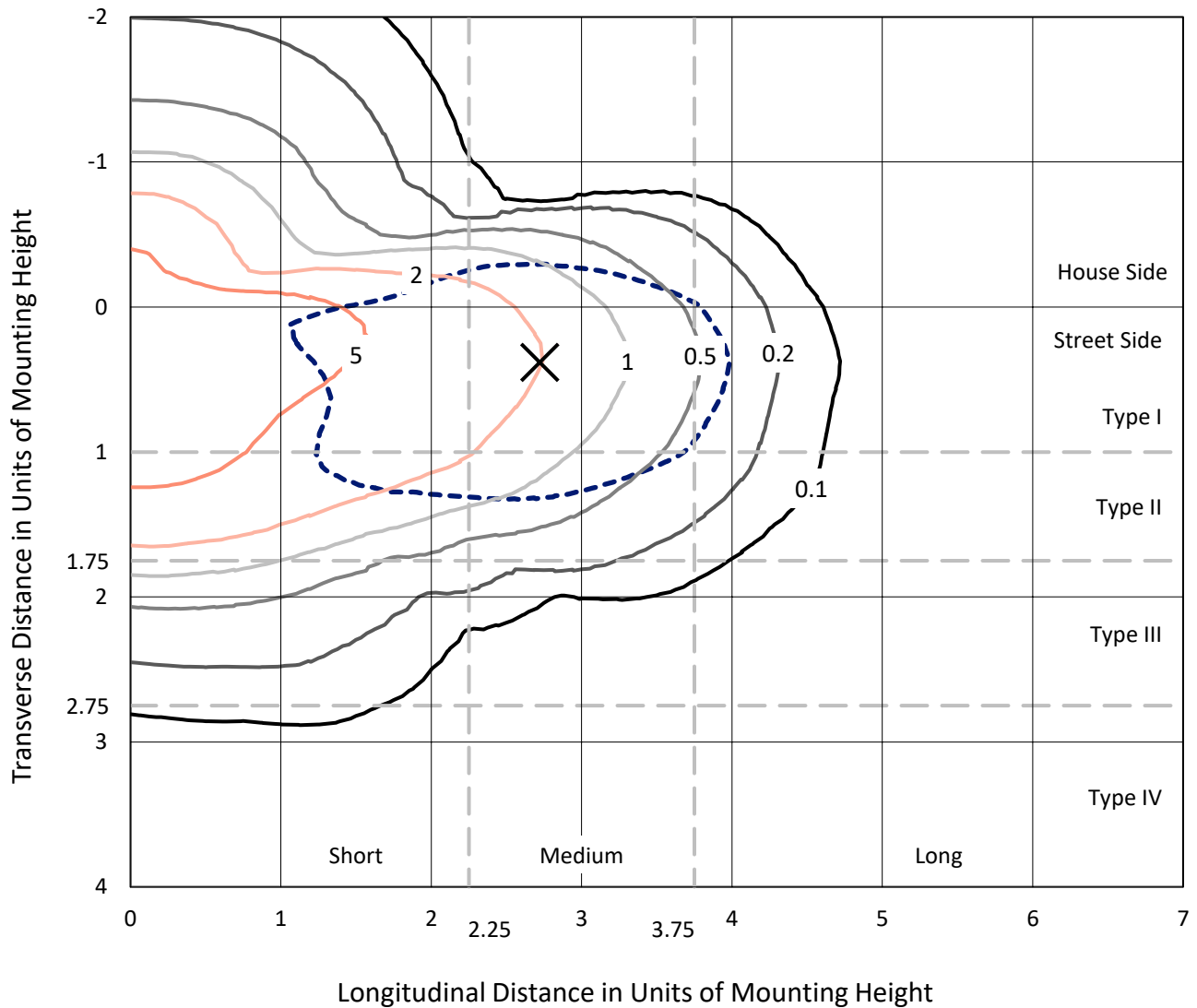
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P943585  
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### Iso-Footcandle Lines of Horizontal Illumination

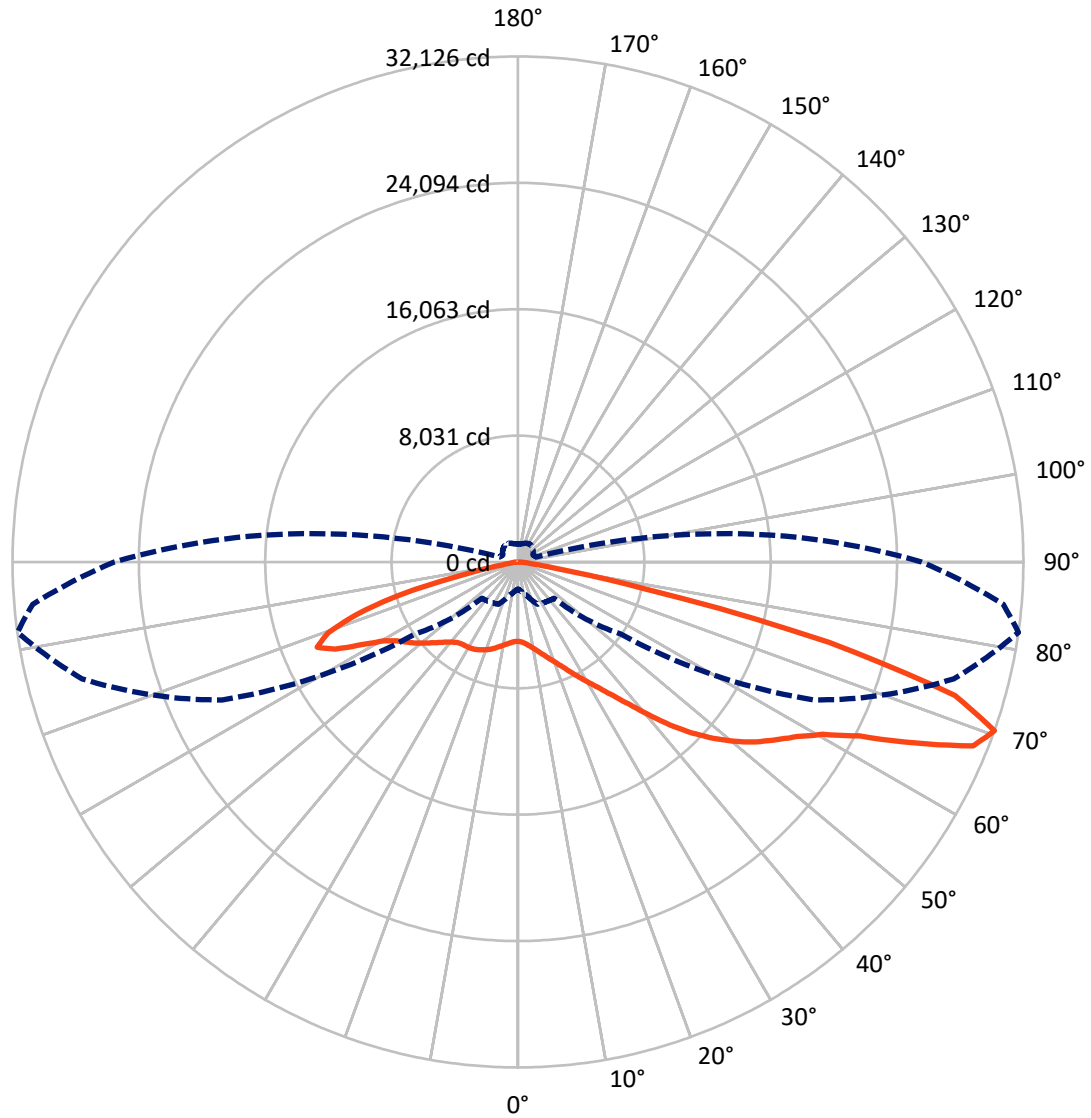
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Medium - N/A

REPORT NUMBER: P943585  
CATALOG NUMBER: GALN-SB8A-850-U-T2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P943585

CATALOG NUMBER: GALN-SB8A-850-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8475.0	0.0	8475.0
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	25903.0	0.0	25903.0
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	34378.0	0.0	34378.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.9	1.4
10°-20°	1367.3	4.0
20°-30°	2287.3	6.7
30°-40°	3573.3	10.4
40°-50°	5690.9	16.6
50°-60°	7919.6	23.0
60°-70°	8284.3	24.1
70°-80°	4329.8	12.6
80°-90°	449.6	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°	34378.0	100.0
0°-180°	34378.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P943585

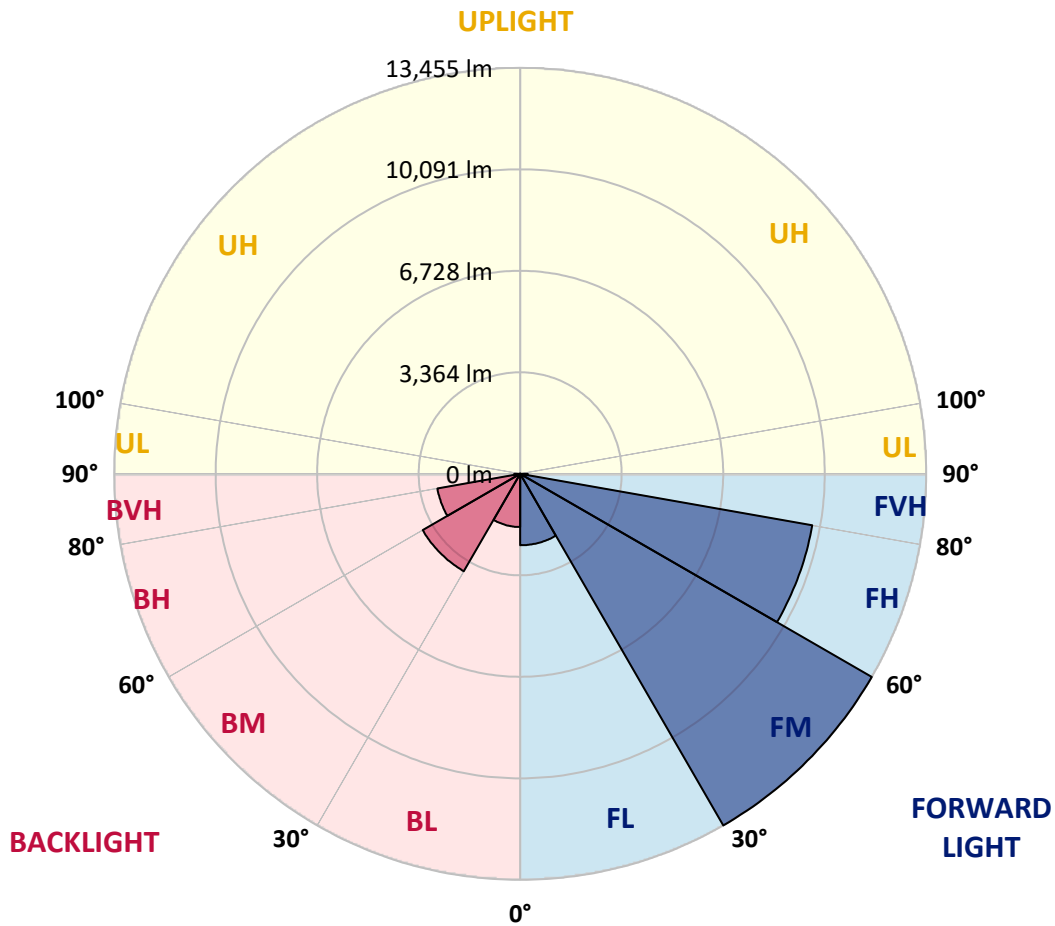
CATALOG NUMBER: GALN-SB8A-850-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2367.3	6.9			
FM (30°-60°)	13455.2	39.1			
FH (60°-80°)	9828.8	28.6			G4/12000
FVH (80°-90°)	251.7	0.7			G3/500
BL (0°-30°)	1763.1	5.1	B3/2500		
BM (30°-60°)	3728.7	10.8	B3/5000		
BH (60°-80°)	2785.3	8.1	B4/5000		G4/5000
BVH (80°-90°)	197.9	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



REPORT NUMBER: P943585

CATALOG NUMBER: GALN-SB8A-850-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5040.2	5040.2	5040.2	5040.2	5040.2	5040.2	5040.2	5040.2	5040.2	5040.2
2.5°	5160.6	5189.8	5180.7	5171.6	5171.6	5158.8	5157.0	5138.8	5124.2	5100.4
5°	5226.3	5257.3	5253.7	5261.0	5284.7	5290.2	5295.6	5284.7	5255.5	5226.3
7.5°	5167.9	5202.6	5213.5	5257.3	5330.3	5396.0	5445.2	5465.3	5437.9	5396.0
10°	4970.9	5009.2	5047.5	5151.5	5281.0	5436.1	5567.4	5645.9	5640.4	5600.3
12.5°	4571.4	4611.6	4693.6	4896.1	5133.3	5406.9	5651.3	5815.5	5872.1	5842.9
15°	4252.2	4286.9	4348.9	4556.8	4865.1	5281.0	5682.4	6001.6	6145.7	6129.3
17.5°	4243.1	4257.7	4296.0	4394.5	4631.6	5084.0	5649.5	6184.0	6459.5	6457.6
20°	4403.6	4409.1	4431.0	4451.0	4586.0	4934.4	5565.6	6335.4	6811.5	6811.5
22.5°	4626.2	4622.5	4644.4	4626.2	4691.8	4921.7	5512.7	6468.6	7203.7	7232.9
25°	4960.0	4941.7	4936.3	4894.3	4907.1	5040.2	5571.1	6620.0	7668.9	7729.1
27.5°	5405.1	5375.9	5355.8	5259.1	5226.3	5284.7	5749.9	6802.4	8187.0	8291.0
30°	5985.2	5932.3	5903.1	5735.3	5616.7	5625.8	6019.8	7045.0	8728.8	8896.6
32.5°	6776.9	6694.8	6616.3	6340.9	6123.8	6052.7	6368.3	7380.7	9316.2	9584.3
35°	7663.4	7597.8	7513.9	7088.8	6755.0	6590.8	6838.9	7849.5	10003.9	10428.9
37.5°	8517.2	8460.6	8500.7	7927.9	7497.4	7258.5	7455.5	8478.8	10852.1	11479.6
40°	9400.1	9356.3	9361.8	8814.5	8312.8	8044.7	8203.4	9268.7	11824.4	12729.2
42.5°	10359.6	10326.8	10217.3	9732.1	9168.4	8918.5	9064.4	10180.8	12867.9	14152.1
45°	11434.0	11414.0	11311.8	10755.4	10109.7	9828.8	10025.8	11187.8	13916.8	15491.0
47.5°	12362.6	12379.0	12366.2	11897.4	11227.9	10815.6	11051.0	12238.5	14892.7	16749.7
50°	12809.5	12895.2	13021.1	12875.2	12459.2	12039.7	12085.3	13252.8	15823.0	17930.0
52.5°	12576.0	12738.3	13081.3	13314.8	13475.3	13387.8	13265.5	14259.7	16698.7	18995.3
55°	11705.8	11933.9	12503.0	13066.7	13885.8	14522.4	14682.9	15376.1	17552.4	19933.0
57.5°	10120.6	10490.9	11001.7	12141.8	13520.9	15071.5	16335.6	16924.9	18457.2	20934.4
60°	7402.6	7898.8	8533.6	10230.1	12244.0	14777.8	17742.1	19303.6	19743.2	22231.4
62.5°	4737.4	5043.9	5627.6	7225.6	9540.5	13272.8	18172.6	22277.0	21923.1	24358.4
65°	3243.4	3440.4	3974.9	4872.4	6167.6	9879.8	17019.7	24506.2	25385.5	27729.6
67.5°	2356.9	2506.4	2962.5	3748.7	4018.7	5846.5	13207.2	24404.1	28751.1	31202.8
70°	1718.4	1824.2	2207.3	2962.5	3092.0	3252.5	8000.9	20744.7	28678.1	32125.9
72.5°	1273.3	1346.3	1603.5	2298.5	2502.8	2196.3	3960.3	15077.0	24643.0	29057.6
75°	921.2	975.9	1165.7	1758.5	2003.0	1672.8	1975.6	8810.9	17189.4	20440.1
77.5°	704.1	746.1	870.1	1287.9	1603.5	1255.0	1225.9	4053.4	8150.5	8190.6
80°	565.5	592.9	660.4	906.6	1229.5	939.5	799.0	1636.3	2575.8	2179.9
82.5°	415.9	461.5	558.2	636.6	879.3	647.6	487.1	826.4	979.6	842.8
85°	237.1	268.2	337.5	456.0	561.9	395.8	279.1	366.7	456.0	374.0
87.5°	83.9	109.5	118.6	178.8	244.4	164.2	107.6	105.8	149.6	111.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943585  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5040.2	0°	5040.2	5040.2	5040.2	5040.2	5040.2	5040.2	5040.2	5040.2	5040.2	5040.2
5095.0	2.5°	5076.7	5067.6	5031.1	4981.9	4930.8	4881.5	4865.1	4830.5	4806.7	4794.0
5213.5	5°	5178.9	5149.7	5064.0	4954.5	4839.6	4715.5	4628.0	4547.7	4489.3	4434.6
5375.9	7.5°	5324.8	5273.7	5126.0	4934.4	4730.1	4524.0	4370.8	4254.0	4175.6	4124.5
5565.6	10°	5494.5	5416.0	5189.8	4903.4	4587.8	4292.3	4111.7	4011.4	3962.1	3934.8
5782.7	12.5°	5689.7	5578.4	5255.5	4832.3	4370.8	4033.3	3909.2	3880.1	3881.9	3883.7
6056.3	15°	5930.5	5775.4	5308.4	4677.2	4088.0	3834.5	3812.6	3860.0	3909.2	3933.0
6366.4	17.5°	6202.3	5983.4	5317.5	4421.8	3810.7	3706.8	3776.1	3878.2	3953.0	3985.9
6713.0	20°	6494.1	6195.0	5251.9	4060.7	3582.7	3602.8	3726.8	3858.2	3940.3	3982.2
7108.9	22.5°	6828.0	6421.2	5095.0	3681.2	3396.6	3489.7	3635.6	3763.3	3849.0	3891.0
7574.0	25°	7209.2	6674.7	4848.7	3362.0	3236.1	3362.0	3507.9	3613.7	3683.0	3721.4
8093.9	27.5°	7632.4	6939.2	4520.3	3108.4	3095.7	3230.6	3351.0	3433.1	3469.6	3498.8
8646.7	30°	8057.5	7180.0	4122.7	2916.9	2973.4	3101.1	3186.9	3223.3	3234.3	3239.8
9263.3	32.5°	8517.2	7388.0	3704.9	2758.2	2856.7	2975.3	3026.3	3042.8	2991.7	2957.0
10011.2	35°	9073.5	7610.5	3296.3	2632.3	2741.8	2843.9	2860.3	2845.7	2785.5	2714.4
10948.8	37.5°	9761.3	7887.8	2969.8	2542.9	2634.1	2701.6	2681.6	2677.9	2683.4	2599.5
12076.2	40°	10604.0	8249.0	2730.8	2473.6	2546.6	2561.2	2504.6	2535.6	2563.0	2435.3
13313.0	42.5°	11539.8	8685.0	2579.4	2426.2	2473.6	2438.9	2351.4	2386.0	2382.4	2214.6
14555.2	45°	12493.9	9159.3	2526.5	2391.5	2406.1	2336.8	2240.1	2249.2	2172.6	2021.2
15746.4	47.5°	13442.5	9668.2	2559.3	2362.3	2322.2	2243.8	2169.0	2128.8	2015.7	1902.6
16888.4	50°	14372.8	10202.7	2679.7	2304.0	2207.3	2161.7	2106.9	2035.8	1915.4	1818.7
17968.3	52.5°	15235.7	10740.8	2814.7	2207.3	2063.2	2090.5	2055.9	1973.8	1855.2	1756.7
18989.8	55°	16052.9	11279.0	2867.6	2074.1	1928.2	2028.5	2008.4	1857.0	1714.7	1634.5
20058.8	57.5°	16943.1	11926.6	2809.3	1904.5	1818.7	1957.4	1880.7	1712.9	1630.8	1570.6
21450.7	60°	18176.3	12942.6	2683.4	1694.7	1714.7	1851.6	1720.2	1650.9	1561.5	1494.0
23537.6	62.5°	20224.8	14838.0	2480.9	1486.7	1592.5	1694.7	1643.6	1574.3	1483.1	1417.4
27105.7	65°	23253.0	17472.1	2099.6	1324.4	1455.7	1541.4	1561.5	1492.2	1397.3	1328.0
30232.3	67.5°	25806.9	19124.8	1588.9	1189.4	1315.2	1417.4	1473.9	1406.5	1306.1	1238.6
30963.8	70°	25666.4	17924.5	1213.1	1056.2	1191.2	1295.2	1368.1	1315.2	1207.6	1143.8
28125.4	72.5°	22796.9	14994.9	981.4	921.2	1065.3	1167.5	1255.0	1214.9	1105.5	1043.4
20604.3	75°	16747.9	10644.2	784.4	784.4	908.4	1034.3	1131.0	1105.5	1005.1	961.3
8650.3	77.5°	7059.6	4465.6	614.8	651.2	755.2	888.4	1008.8	1017.9	930.3	985.1
2287.5	80°	1877.1	1231.3	468.8	512.6	592.9	733.3	877.4	873.8	778.9	727.9
850.1	82.5°	715.1	485.2	333.8	361.2	428.7	561.9	695.0	716.9	622.0	538.1
333.8	85°	275.5	208.0	206.1	217.1	249.9	372.1	525.4	543.6	468.8	397.7
93.0	87.5°	71.1	62.0	76.6	73.0	114.9	198.8	301.0	311.9	286.4	166.0
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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<u>180°</u>
5040.2
4808.6
4456.5
4135.4
3942.1
3887.4
3931.1
3993.2
3993.2
3901.9
3732.3
3509.7
3252.5
2968.0
2718.0
2604.9
2438.9
2212.7
2026.7
1902.6
1811.4
1758.5
1627.2
1565.2
1490.4
1417.4
1331.7
1240.5
1149.2
1043.4
948.6
893.9
676.8
538.1
410.4
237.1
0.0

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