

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: P943725

Luminaire Tested: **GALN-SB8B-830-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943725  
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-SB8B-830-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 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: 40540 lumens  
Efficiency: N/A  
Efficacy: 138.5 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

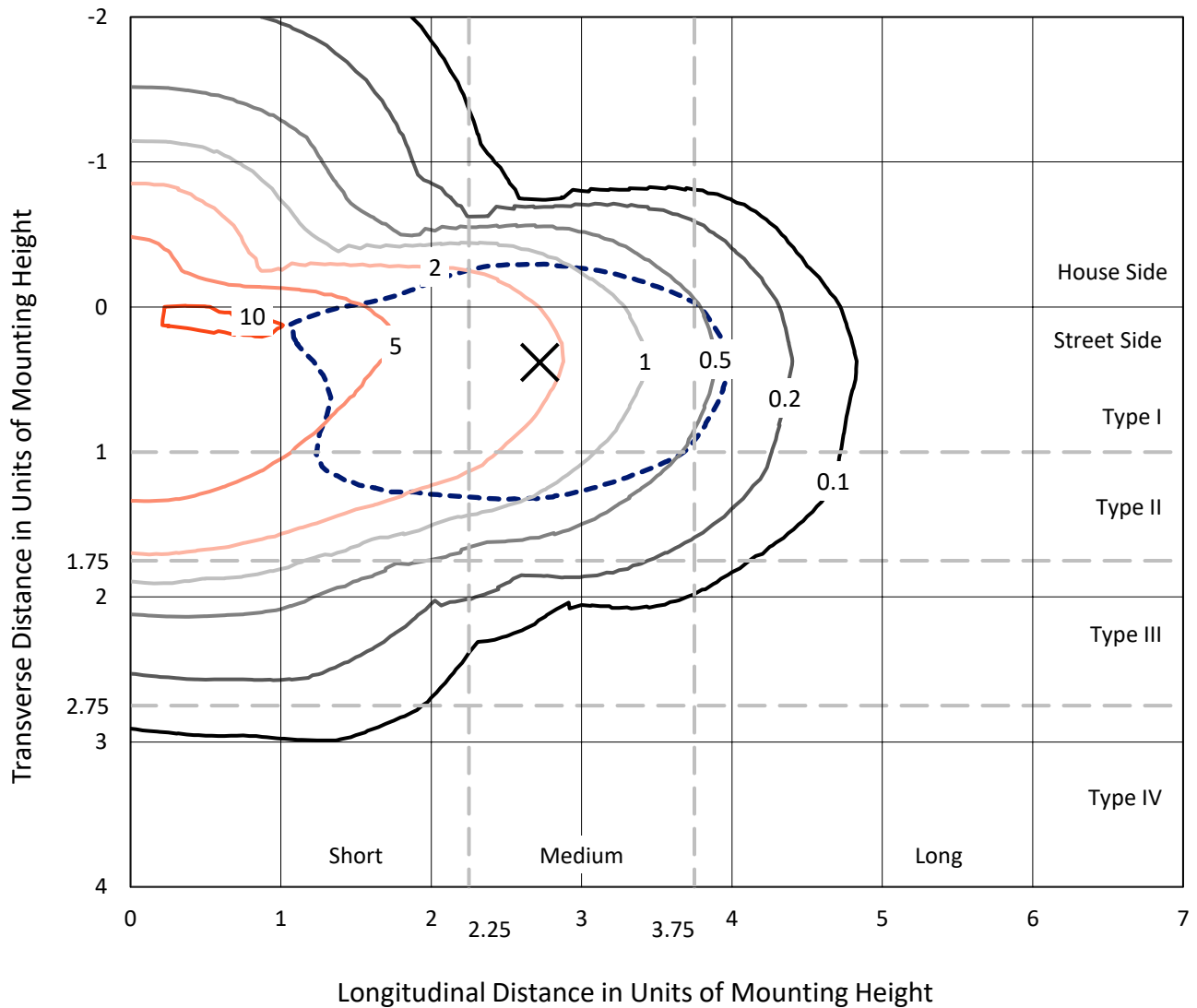
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P943725  
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### Iso-Footcandle Lines of Horizontal Illumination

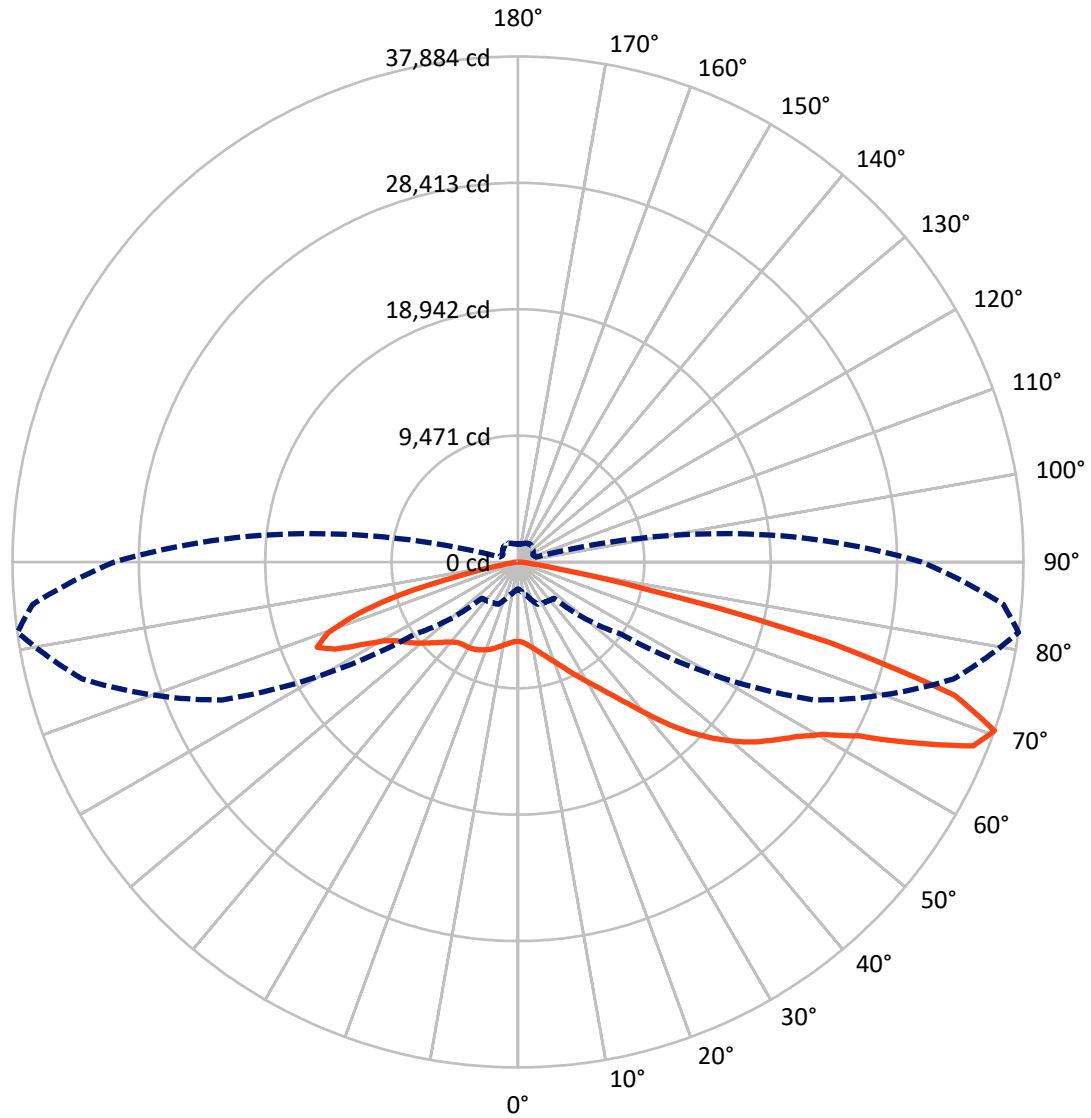
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Medium - N/A

REPORT NUMBER: P943725  
CATALOG NUMBER: GALN-SB8B-830-U-T2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P943725

CATALOG NUMBER: GALN-SB8B-830-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9994.1	0.0	9994.1
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	30545.9	0.0	30545.9
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	40540.0	0.0	40540.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	561.2	1.4
10°-20°	1612.3	4.0
20°-30°	2697.3	6.7
30°-40°	4213.8	10.4
40°-50°	6711.0	16.6
50°-60°	9339.2	23.0
60°-70°	9769.2	24.1
70°-80°	5105.9	12.6
80°-90°	530.2	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°	40540.0	100.0
0°-180°	40540.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P943725

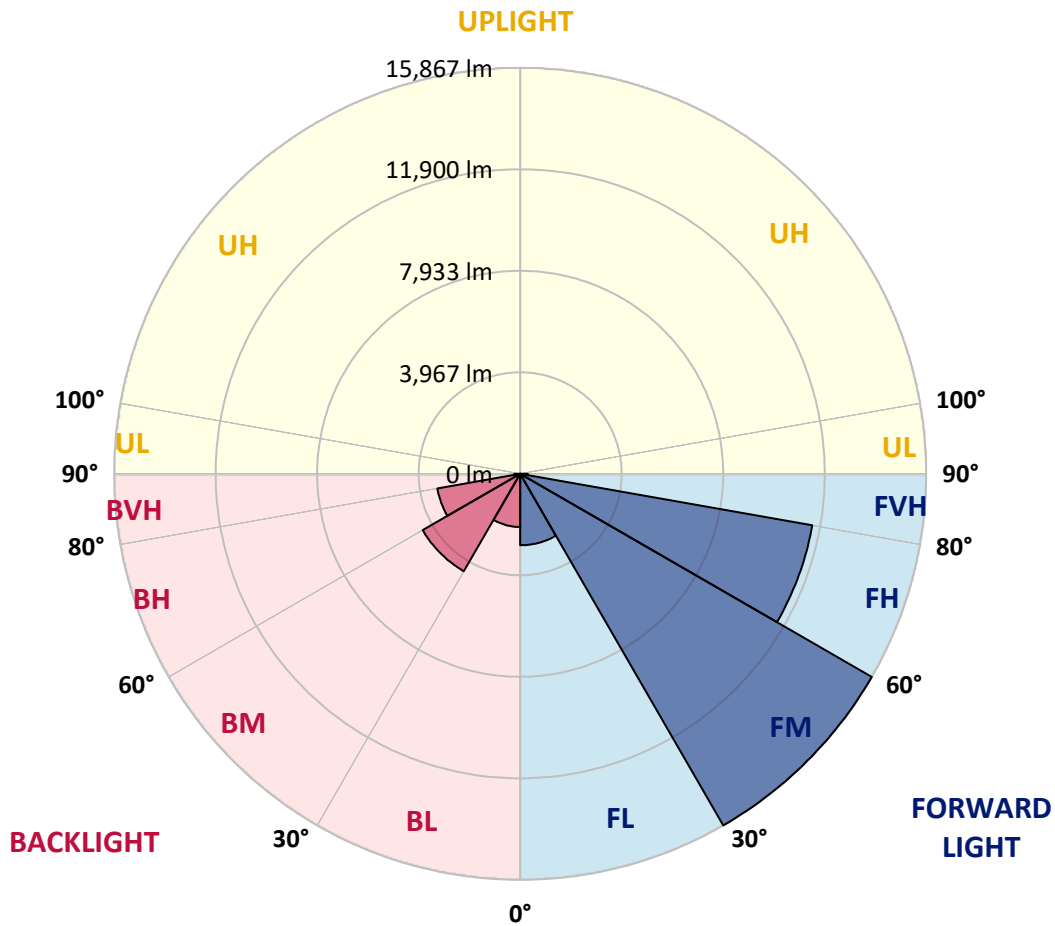
CATALOG NUMBER: GALN-SB8B-830-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2791.6	6.9			
FM (30°-60°)	15867.0	39.1			
FH (60°-80°)	11590.5	28.6			G4/12000
FVH (80°-90°)	296.8	0.7			G3/500
BL (0°-30°)	2079.1	5.1	B3/2500		
BM (30°-60°)	4397.0	10.8	B3/5000		
BH (60°-80°)	3284.6	8.1	B4/5000		G4/5000
BVH (80°-90°)	233.4	0.6			G3/500
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: P943725  
 CATALOG NUMBER: GALN-SB8B-830-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5943.7	5943.7	5943.7	5943.7	5943.7	5943.7	5943.7	5943.7	5943.7	5943.7
2.5°	6085.6	6120.1	6109.3	6098.6	6098.6	6083.5	6081.3	6059.8	6042.6	6014.7
5°	6163.1	6199.7	6195.4	6204.0	6231.9	6238.4	6244.8	6231.9	6197.5	6163.1
7.5°	6094.3	6135.1	6148.0	6199.7	6285.7	6363.1	6421.2	6444.9	6412.6	6363.1
10°	5861.9	5907.1	5952.3	6074.9	6227.6	6410.5	6565.4	6657.9	6651.4	6604.1
12.5°	5390.8	5438.1	5534.9	5773.7	6053.4	6376.1	6664.3	6857.9	6924.6	6890.2
15°	5014.4	5055.2	5128.4	5373.6	5737.2	6227.6	6700.9	7077.3	7247.3	7227.9
17.5°	5003.6	5020.8	5066.0	5182.2	5461.8	5995.3	6662.2	7292.5	7617.3	7615.1
20°	5192.9	5199.4	5225.2	5248.8	5408.0	5818.9	6563.2	7471.0	8032.5	8032.5
22.5°	5455.4	5451.1	5476.9	5455.4	5532.8	5803.8	6500.8	7628.0	8495.0	8529.4
25°	5849.0	5827.5	5821.1	5771.6	5786.6	5943.7	6569.7	7806.6	9043.5	9114.5
27.5°	6373.9	6339.5	6315.8	6201.8	6163.1	6231.9	6780.5	8021.7	9654.4	9777.0
30°	7058.0	6995.6	6961.2	6763.3	6623.4	6634.2	7098.8	8307.8	10293.3	10491.2
32.5°	7991.6	7894.8	7802.3	7477.5	7221.5	7137.6	7509.7	8703.6	10986.0	11302.2
35°	9037.0	8959.6	8860.7	8359.4	7965.8	7772.2	8064.7	9256.5	11797.0	12298.2
37.5°	10043.8	9977.1	10024.4	9349.0	8841.3	8559.5	8791.8	9998.6	12797.3	13537.3
40°	11085.0	11033.3	11039.8	10394.4	9802.9	9486.6	9673.8	10930.1	13943.9	15010.8
42.5°	12216.5	12177.7	12048.7	11476.5	10811.8	10517.0	10689.1	12005.7	15174.3	16688.7
45°	13483.5	13459.8	13339.4	12683.3	11921.8	11590.5	11822.8	13193.1	16411.2	18267.7
47.5°	14578.5	14597.8	14582.8	14029.9	13240.4	12754.3	13031.8	14432.2	17562.1	19752.0
50°	15105.5	15206.6	15355.0	15182.9	14692.5	14197.7	14251.5	15628.2	18659.2	21143.8
52.5°	14830.1	15021.6	15426.0	15701.4	15890.7	15787.4	15643.3	16815.7	19691.8	22400.1
55°	13804.0	14072.9	14744.1	15408.8	16374.7	17125.4	17314.7	18132.2	20698.5	23505.8
57.5°	11934.7	12371.4	12973.7	14318.2	15944.4	17772.9	19263.7	19958.5	21765.5	24686.8
60°	8729.4	9314.5	10063.2	12063.7	14438.6	17426.6	20922.2	22763.6	23282.1	26216.3
62.5°	5586.6	5948.0	6636.3	8520.8	11250.6	15651.9	21429.9	26270.0	25852.7	28724.5
65°	3824.8	4057.1	4687.4	5745.8	7273.1	11650.7	20070.4	28898.8	29935.6	32699.9
67.5°	2779.3	2955.7	3493.5	4420.6	4739.0	6894.5	15574.4	28778.3	33904.5	36795.7
70°	2026.4	2151.2	2602.9	3493.5	3646.2	3835.5	9435.0	24463.1	33818.5	37884.2
72.5°	1501.5	1587.6	1890.9	2710.5	2951.4	2590.0	4670.2	17779.4	29060.1	34265.9
75°	1086.3	1150.9	1374.6	2073.7	2362.0	1972.6	2329.7	10390.1	20270.4	24103.8
77.5°	830.3	879.8	1026.1	1518.7	1890.9	1480.0	1445.6	4779.9	9611.4	9658.7
80°	666.9	699.1	778.7	1069.1	1449.9	1107.9	942.2	1929.6	3037.4	2570.6
82.5°	490.5	544.2	658.3	750.8	1036.9	763.7	574.4	974.5	1155.2	993.8
85°	279.7	316.2	398.0	537.8	662.6	466.8	329.1	432.4	537.8	441.0
87.5°	99.0	129.1	139.8	210.8	288.3	193.6	126.9	124.8	176.4	131.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943725  
 CATALOG NUMBER: GALN-SB8B-830-U-T2

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5943.7	0°	5943.7	5943.7	5943.7	5943.7	5943.7	5943.7	5943.7	5943.7	5943.7	5943.7
6008.2	2.5°	5986.7	5975.9	5932.9	5874.8	5814.6	5756.5	5737.2	5696.3	5668.3	5653.3
6148.0	5°	6107.2	6072.7	5971.6	5842.6	5707.0	5560.8	5457.5	5362.9	5294.0	5229.5
6339.5	7.5°	6279.3	6219.0	6044.8	5818.9	5578.0	5334.9	5154.2	5016.5	4924.0	4863.8
6563.2	10°	6479.3	6386.8	6120.1	5782.3	5410.2	5061.7	4848.7	4730.4	4672.3	4640.1
6819.2	12.5°	6709.5	6578.3	6197.5	5698.4	5154.2	4756.2	4609.9	4575.5	4577.7	4579.8
7141.9	15°	6993.4	6810.6	6259.9	5515.6	4820.8	4521.8	4495.9	4551.9	4609.9	4637.9
7507.6	17.5°	7314.0	7055.8	6270.6	5214.4	4493.8	4371.2	4452.9	4573.4	4661.6	4700.3
7916.3	20°	7658.2	7305.4	6193.2	4788.5	4224.9	4248.6	4394.8	4549.7	4646.5	4696.0
8383.1	22.5°	8051.8	7572.1	6008.2	4341.1	4005.5	4115.2	4287.3	4437.9	4539.0	4588.4
8931.6	25°	8501.4	7871.1	5717.8	3964.6	3816.2	3964.6	4136.7	4261.5	4343.2	4388.4
9544.7	27.5°	9000.5	8183.0	5330.6	3665.6	3650.5	3809.7	3951.7	4048.5	4091.5	4125.9
10196.5	30°	9501.7	8467.0	4861.6	3439.7	3506.4	3657.0	3758.1	3801.1	3814.0	3820.5
10923.6	32.5°	10043.8	8712.2	4369.0	3252.6	3368.7	3508.6	3568.8	3588.1	3527.9	3487.0
11805.6	35°	10699.9	8974.7	3887.2	3104.1	3233.2	3353.7	3373.0	3355.8	3284.8	3200.9
12911.3	37.5°	11510.9	9301.6	3502.1	2998.7	3106.3	3185.9	3162.2	3157.9	3164.4	3065.4
14240.7	40°	12504.7	9727.6	3220.3	2917.0	3003.0	3020.2	2953.6	2990.1	3022.4	2871.8
15699.2	42.5°	13608.3	10241.7	3041.7	2861.1	2917.0	2876.1	2772.9	2813.7	2809.4	2611.5
17164.2	45°	14733.3	10801.0	2979.4	2820.2	2837.4	2755.6	2641.6	2652.4	2562.0	2383.5
18568.9	47.5°	15851.9	11401.2	3018.1	2785.8	2738.4	2645.9	2557.7	2510.4	2377.0	2243.7
19915.5	50°	16949.0	12031.5	3160.1	2716.9	2602.9	2549.1	2484.6	2400.7	2258.7	2144.7
21189.0	52.5°	17966.5	12666.1	3319.2	2602.9	2433.0	2465.2	2424.4	2327.6	2187.7	2071.6
22393.6	55°	18930.3	13300.7	3381.6	2445.9	2273.8	2392.1	2368.4	2189.9	2022.1	1927.4
23654.2	57.5°	19980.0	14064.3	3312.8	2245.8	2144.7	2308.2	2217.9	2019.9	1923.1	1852.2
25295.6	60°	21434.2	15262.5	3164.4	1998.4	2022.1	2183.4	2028.5	1946.8	1841.4	1761.8
27756.5	62.5°	23850.0	17497.6	2925.6	1753.2	1878.0	1998.4	1938.2	1856.5	1748.9	1671.5
31964.2	65°	27420.9	20603.9	2476.0	1561.7	1716.6	1817.7	1841.4	1759.7	1647.8	1566.0
35651.3	67.5°	30432.5	22552.8	1873.7	1402.6	1551.0	1671.5	1738.1	1658.5	1540.2	1460.6
36513.9	70°	30266.9	21137.4	1430.5	1245.5	1404.7	1527.3	1613.4	1551.0	1424.1	1348.8
33166.7	72.5°	26883.1	17682.6	1157.3	1086.3	1256.3	1376.7	1480.0	1432.7	1303.6	1230.5
24297.4	75°	19749.9	12552.1	925.0	925.0	1071.3	1219.7	1333.7	1303.6	1185.3	1133.7
10200.8	77.5°	8325.0	5266.1	724.9	768.0	890.6	1047.6	1189.6	1200.4	1097.1	1161.6
2697.6	80°	2213.5	1452.0	552.8	604.5	699.1	864.8	1034.7	1030.4	918.5	858.3
1002.4	82.5°	843.3	572.2	393.7	425.9	505.5	662.6	819.6	845.4	733.5	634.6
393.7	85°	324.8	245.2	243.1	256.0	294.7	438.8	619.5	641.0	552.8	469.0
109.7	87.5°	83.9	73.1	90.3	86.0	135.5	234.5	354.9	367.8	337.7	195.8
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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<u>180°</u>
5943.7
5670.5
5255.3
4876.7
4648.7
4584.1
4635.8
4708.9
4708.9
4601.3
4401.3
4138.8
3835.5
3499.9
3205.2
3071.9
2876.1
2609.4
2389.9
2243.7
2136.1
2073.7
1918.8
1845.7
1757.5
1671.5
1570.4
1462.8
1355.2
1230.5
1118.6
1054.1
798.1
634.6
484.0
279.7
0.0

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