

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: P943375

Luminaire Tested: **GALN-SB7D-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943375
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-SB7D-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62353 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

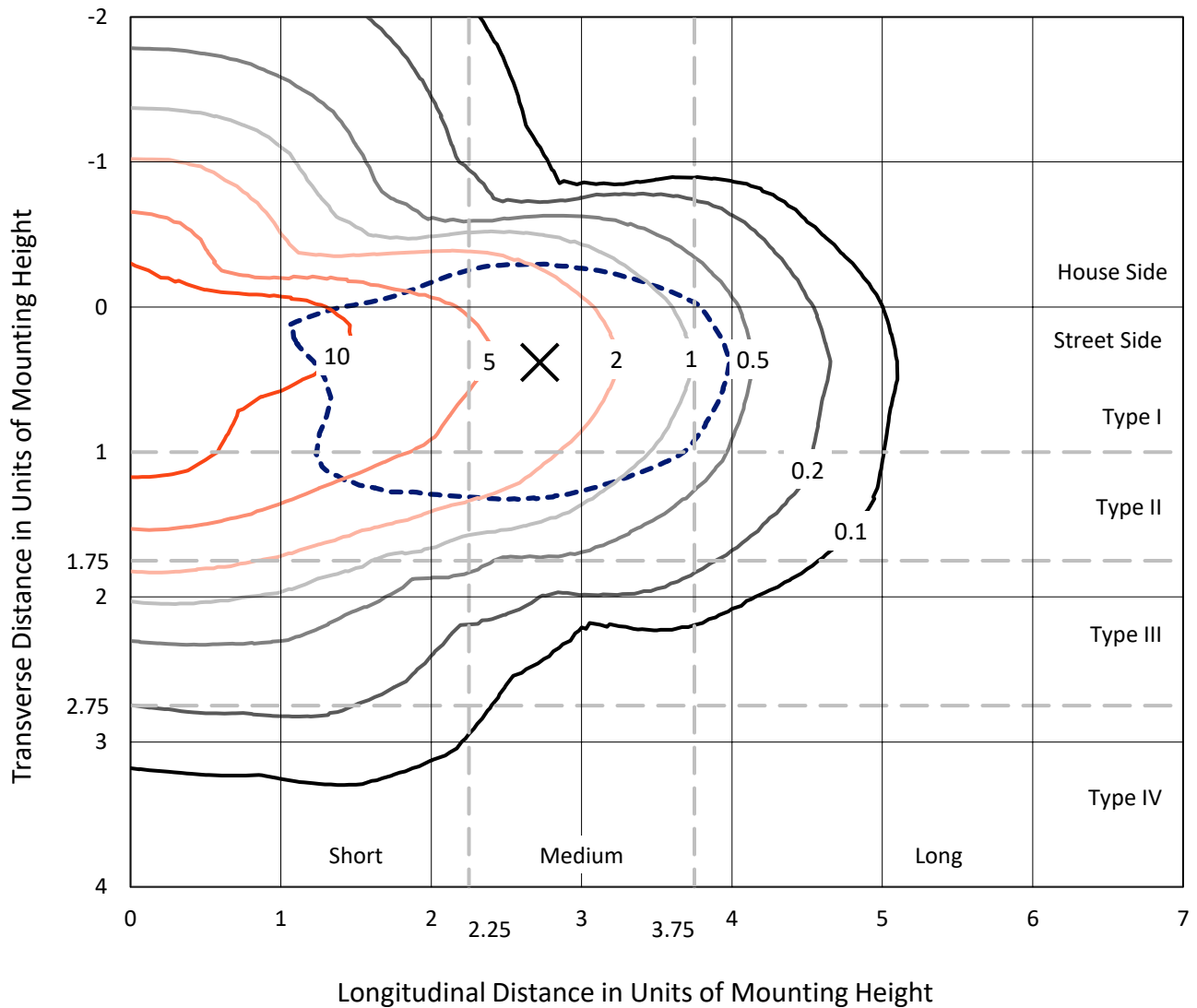
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

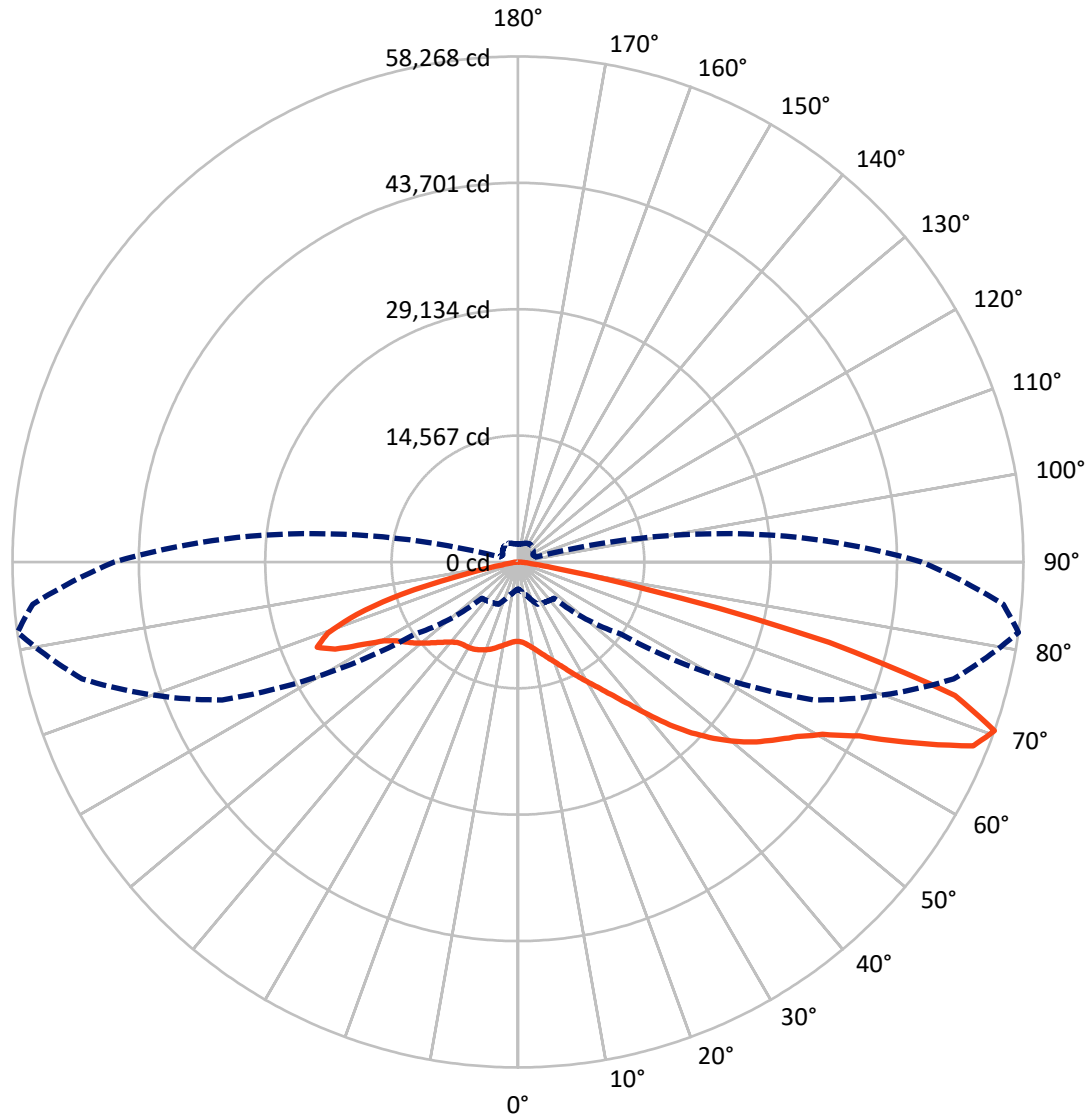
× Max cd
 - - - 1/2 Max cd



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



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15371.5	0.0	15371.5
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	46981.5	0.0	46981.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	62353.0	0.0	62353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	863.1	1.4
10°-20°	2479.8	4.0
20°-30°	4148.6	6.7
30°-40°	6481.1	10.4
40°-50°	10321.9	16.6
50°-60°	14364.2	23.0
60°-70°	15025.6	24.1
70°-80°	7853.2	12.6
80°-90°	815.5	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°	62353.0	100.0
0°-180°	62353.0	100.0

Coefficient of Utilization



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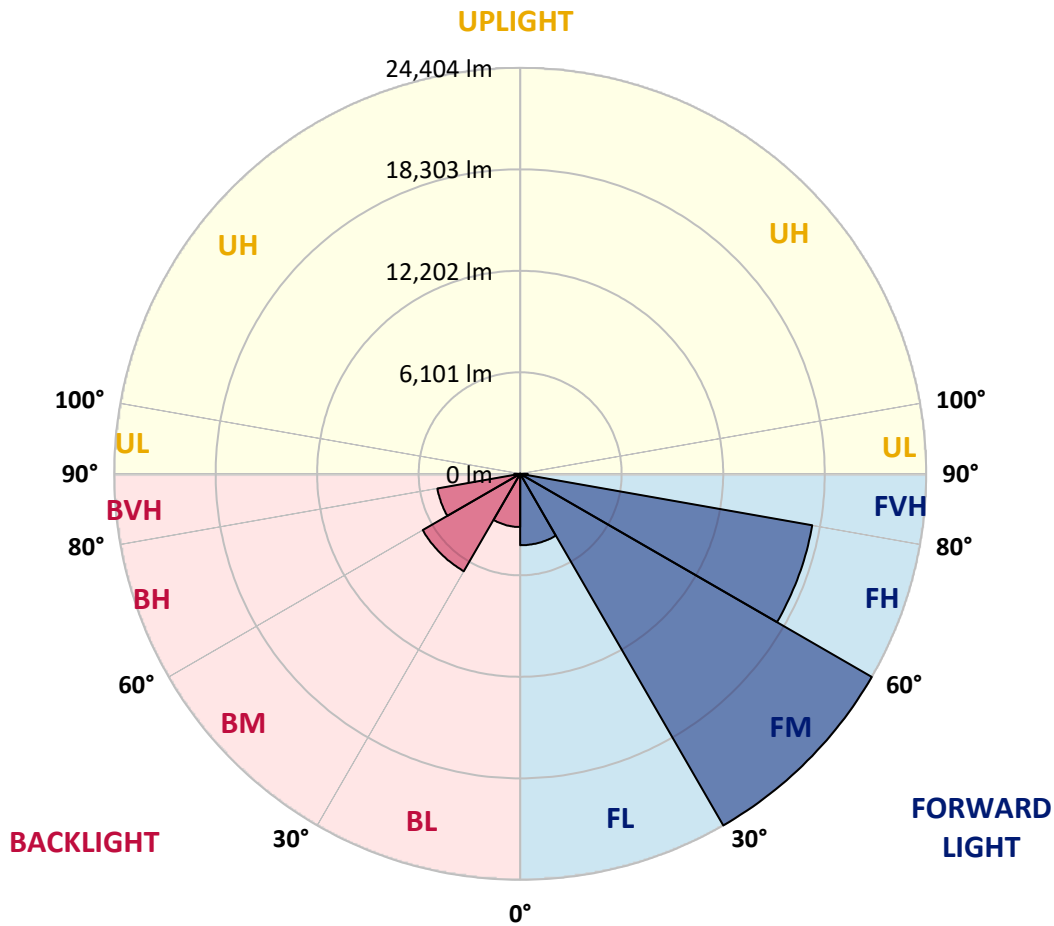
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4293.7	6.9			
FM (30°-60°)	24404.3	39.1			
FH (60°-80°)	17826.9	28.6			G5
FVH (80°-90°)	456.5	0.7			G3/500
BL (0°-30°)	3197.8	5.1	B4/5000		
BM (30°-60°)	6762.9	10.8	B4/8500		
BH (60°-80°)	5051.9	8.1	B5		G5
BVH (80°-90°)	359.0	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	9141.7	9141.7	9141.7	9141.7	9141.7	9141.7	9141.7	9141.7	9141.7	9141.7
2.5°	9360.1	9413.0	9396.5	9380.0	9380.0	9356.8	9353.5	9320.4	9293.9	9250.9
5°	9479.2	9535.5	9528.8	9542.1	9585.1	9595.0	9604.9	9585.1	9532.1	9479.2
7.5°	9373.3	9436.2	9456.0	9535.5	9667.8	9786.9	9876.2	9912.6	9863.0	9786.9
10°	9016.0	9085.5	9155.0	9343.6	9578.5	9859.7	10097.9	10240.2	10230.3	10157.5
12.5°	8291.4	8364.2	8513.1	8880.3	9310.5	9806.8	10250.1	10547.9	10650.5	10597.5
15°	7712.4	7775.3	7887.8	8264.9	8824.1	9578.5	10306.4	10885.4	11146.8	11117.0
17.5°	7695.9	7722.3	7791.8	7970.5	8400.6	9221.1	10246.8	11216.2	11715.8	11712.5
20°	7987.0	7996.9	8036.6	8073.0	8317.9	8949.8	10094.6	11490.9	12354.4	12354.4
22.5°	8390.7	8384.1	8423.8	8390.7	8509.8	8926.7	9998.7	11732.4	13065.8	13118.7
25°	8996.2	8963.1	8953.1	8877.0	8900.2	9141.7	10104.5	12007.0	13909.5	14018.6
27.5°	9803.5	9750.5	9714.1	9538.8	9479.2	9585.1	10428.8	12337.9	14849.1	15037.7
30°	10855.6	10759.6	10706.7	10402.3	10187.3	10203.8	10918.5	12777.9	15831.8	16136.2
32.5°	12291.5	12142.7	12000.4	11500.8	11107.1	10978.0	11550.4	13386.7	16897.1	17383.5
35°	13899.5	13780.4	13628.2	12857.3	12251.8	11954.1	12404.0	14237.0	18144.5	18915.4
37.5°	15448.0	15345.4	15418.2	14379.3	13598.4	13165.0	13522.3	15378.5	19683.0	20821.2
40°	17049.3	16969.9	16979.9	15987.3	15077.4	14591.0	14878.9	16811.1	21446.5	23087.6
42.5°	18789.7	18730.1	18531.6	17651.5	16629.1	16175.9	16440.6	18465.4	23339.0	25668.3
45°	20738.5	20702.1	20516.8	19507.7	18336.4	17826.9	18184.2	20291.8	25241.5	28096.8
47.5°	22422.5	22452.3	22429.2	21578.8	20364.6	19616.8	20043.6	22197.6	27011.6	30379.8
50°	23233.2	23388.7	23617.0	23352.3	22597.9	21836.9	21919.6	24037.2	28699.0	32520.5
52.5°	22809.7	23104.1	23726.1	24149.7	24440.8	24282.0	24060.3	25863.5	30287.1	34452.7
55°	21231.4	21645.0	22677.3	23699.7	25185.2	26340.0	26631.1	27888.4	31835.6	36153.3
57.5°	18356.2	19027.9	19954.3	22022.2	24523.5	27335.9	29628.7	30697.4	33476.7	37969.8
60°	13426.4	14326.3	15477.7	18554.8	22207.5	26803.2	32179.7	35011.9	35809.2	40322.2
62.5°	8592.5	9148.3	10207.1	13105.5	17304.1	24073.6	32960.5	40404.9	39763.0	44180.1
65°	5882.7	6240.1	7209.5	8837.3	11186.5	17919.5	30869.5	44448.1	46042.8	50294.4
67.5°	4274.7	4546.1	5373.2	6799.2	7288.9	10604.1	23954.4	44262.8	52147.2	56594.0
70°	3116.7	3308.6	4003.4	5373.2	5608.1	5899.3	14511.6	37625.7	52014.9	58268.2
72.5°	2309.4	2441.8	2908.3	4168.9	4539.4	3983.6	7183.0	27345.8	44696.2	52703.1
75°	1670.9	1770.1	2114.2	3189.5	3632.9	3034.0	3583.2	15980.7	31177.2	37073.1
77.5°	1277.1	1353.2	1578.2	2335.9	2908.3	2276.3	2223.4	7351.8	14782.9	14855.7
80°	1025.7	1075.3	1197.7	1644.4	2230.0	1703.9	1449.2	2967.8	4671.8	3953.8
82.5°	754.4	837.1	1012.4	1154.7	1594.8	1174.6	883.4	1498.8	1776.7	1528.6
85°	430.1	486.4	612.1	827.2	1019.1	718.0	506.2	665.0	827.2	678.3
87.5°	152.2	198.5	215.1	324.2	443.4	297.8	195.2	191.9	271.3	201.8
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°
9141.7	0°	9141.7	9141.7	9141.7	9141.7	9141.7	9141.7	9141.7	9141.7	9141.7	9141.7
9241.0	2.5°	9207.9	9191.4	9125.2	9035.9	8943.2	8853.9	8824.1	8761.2	8718.2	8695.1
9456.0	5°	9393.2	9340.2	9184.7	8986.2	8777.8	8552.8	8394.0	8248.4	8142.5	8043.3
9750.5	7.5°	9657.9	9565.2	9297.2	8949.8	8579.3	8205.4	7927.5	7715.7	7573.4	7480.8
10094.6	10°	9965.6	9823.3	9413.0	8893.6	8321.2	7785.2	7457.6	7275.7	7186.3	7136.7
10488.3	12.5°	10319.6	10117.8	9532.1	8764.5	7927.5	7315.4	7090.4	7037.4	7040.8	7044.1
10984.6	15°	10756.3	10475.1	9628.1	8483.3	7414.6	6954.7	6915.0	7001.0	7090.4	7133.4
11547.1	17.5°	11249.3	10852.3	9644.6	8020.1	6911.7	6723.1	6848.9	7034.1	7169.8	7229.3
12175.7	20°	11778.7	11236.1	9525.5	7365.0	6498.1	6534.5	6759.5	6997.7	7146.6	7222.7
12893.7	22.5°	12384.2	11646.4	9241.0	6676.8	6160.7	6329.4	6594.1	6825.7	6981.2	7057.3
13737.4	25°	13075.7	12106.3	8794.3	6097.8	5869.5	6097.8	6362.5	6554.4	6680.1	6749.6
14680.4	27.5°	13843.3	12586.0	8198.8	5637.9	5614.7	5859.6	6077.9	6226.8	6293.0	6345.9
15682.9	30°	14614.2	13022.7	7477.5	5290.5	5393.1	5624.7	5780.2	5846.3	5866.2	5876.1
16801.2	32.5°	15448.0	13399.9	6719.8	5002.6	5181.3	5396.4	5489.0	5518.8	5426.1	5363.3
18157.7	35°	16457.1	13803.6	5978.7	4774.3	4972.9	5158.1	5187.9	5161.5	5052.3	4923.2
19858.4	37.5°	17704.4	14306.5	5386.4	4612.2	4777.7	4900.1	4863.7	4857.1	4867.0	4714.8
21903.1	40°	19233.0	14961.6	4953.0	4486.5	4618.8	4645.3	4542.7	4599.0	4648.6	4417.0
24146.3	42.5°	20930.4	15752.4	4678.4	4400.5	4486.5	4423.6	4264.8	4327.7	4321.1	4016.7
26399.5	45°	22660.8	16612.6	4582.4	4337.6	4364.1	4238.3	4063.0	4079.5	3940.6	3666.0
28560.0	47.5°	24381.3	17535.7	4642.0	4284.7	4211.9	4069.6	3934.0	3861.2	3656.0	3450.9
30631.2	50°	26068.7	18505.1	4860.4	4178.8	4003.4	3920.7	3821.5	3692.4	3474.1	3298.7
32590.0	52.5°	27633.6	19481.2	5105.2	4003.4	3742.1	3791.7	3728.8	3579.9	3364.9	3186.2
34442.8	55°	29115.9	20457.2	5201.2	3761.9	3497.2	3679.2	3642.8	3368.2	3110.1	2964.5
36381.6	57.5°	30730.5	21631.8	5095.3	3454.2	3298.7	3550.2	3411.2	3106.8	2957.9	2848.7
38906.1	60°	32967.1	23474.7	4867.0	3073.7	3110.1	3358.3	3120.0	2994.3	2832.2	2709.8
42691.2	62.5°	36682.7	26912.4	4499.7	2696.5	2888.4	3073.7	2981.1	2855.3	2689.9	2570.8
49162.9	65°	42175.0	31690.0	3808.2	2402.1	2640.3	2795.8	2832.2	2706.5	2534.4	2408.7
54833.8	67.5°	46807.1	34687.6	2881.8	2157.2	2385.5	2570.8	2673.4	2550.9	2369.0	2246.6
56160.6	70°	46552.3	32510.5	2200.2	1915.7	2160.5	2349.1	2481.5	2385.5	2190.3	2074.5
51012.4	72.5°	41347.9	27196.9	1780.0	1670.9	1932.2	2117.5	2276.3	2203.5	2005.0	1892.5
37370.9	75°	30376.5	19305.8	1422.7	1422.7	1647.7	1876.0	2051.3	2005.0	1823.1	1743.6
15689.5	77.5°	12804.4	8099.5	1115.0	1181.2	1369.8	1611.3	1829.7	1846.2	1687.4	1786.7
4149.0	80°	3404.6	2233.3	850.3	929.7	1075.3	1330.1	1591.4	1584.8	1412.8	1320.1
1541.8	82.5°	1297.0	880.1	605.5	655.1	777.5	1019.1	1260.6	1300.3	1128.2	976.0
605.5	85°	499.6	377.2	373.9	393.7	453.3	675.0	952.9	986.0	850.3	721.3
168.7	87.5°	129.0	112.5	139.0	132.3	208.4	360.6	545.9	565.8	519.5	301.1
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>
9141.7
8721.5
8083.0
7500.7
7149.9
7050.7
7130.1
7242.6
7242.6
7077.1
6769.4
6365.8
5899.3
5383.1
4929.9
4724.7
4423.6
4013.4
3675.9
3450.9
3285.5
3189.5
2951.3
2838.8
2703.1
2570.8
2415.3
2249.9
2084.4
1892.5
1720.5
1621.2
1227.5
976.0
744.4
430.1
0.0

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