

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: P944395

Luminaire Tested: **GALN-SB9B-827-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944395  
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-SB9B-827-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

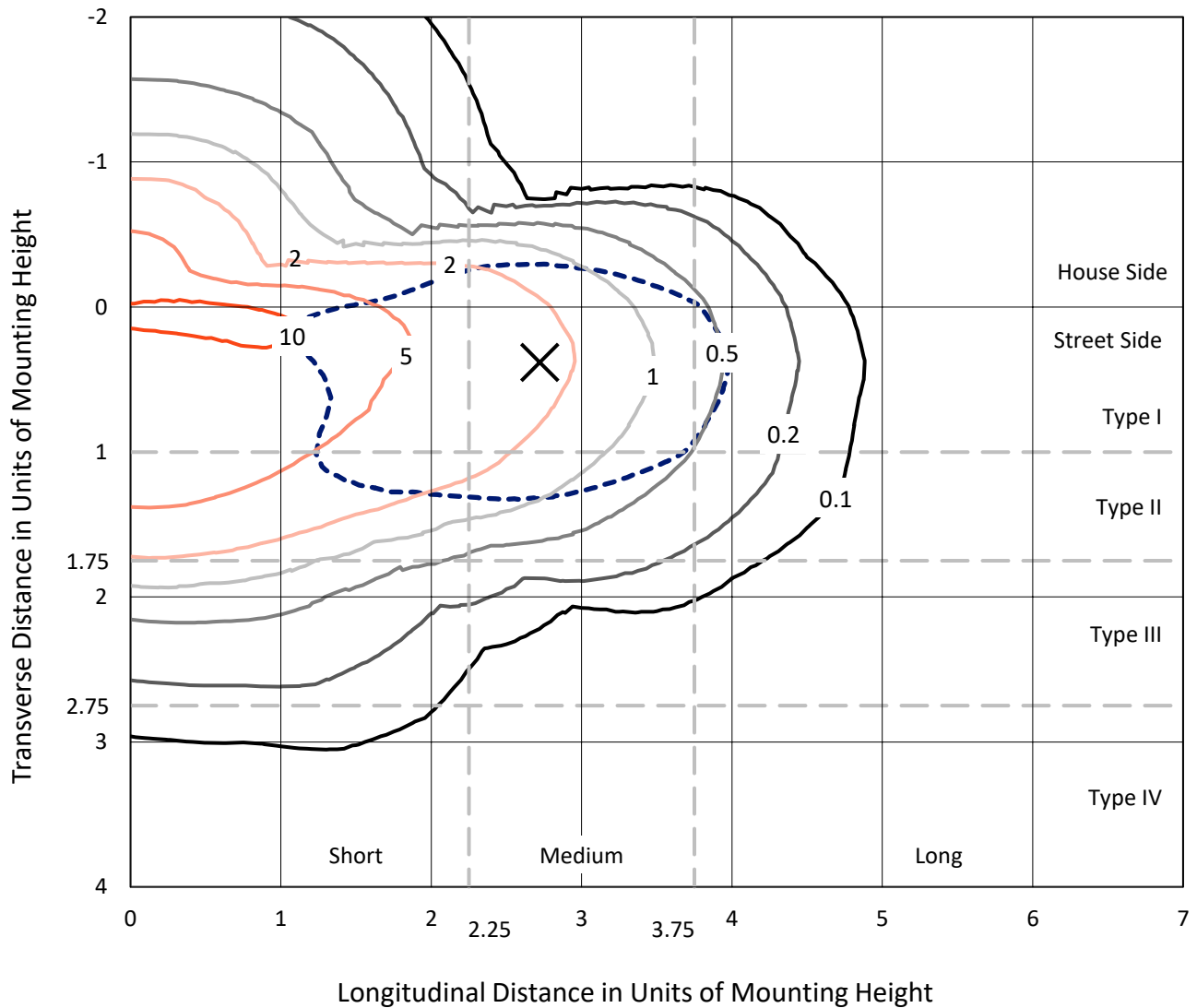
Lumens per Lamp: N/A  
Luminaire Lumens: 44191 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

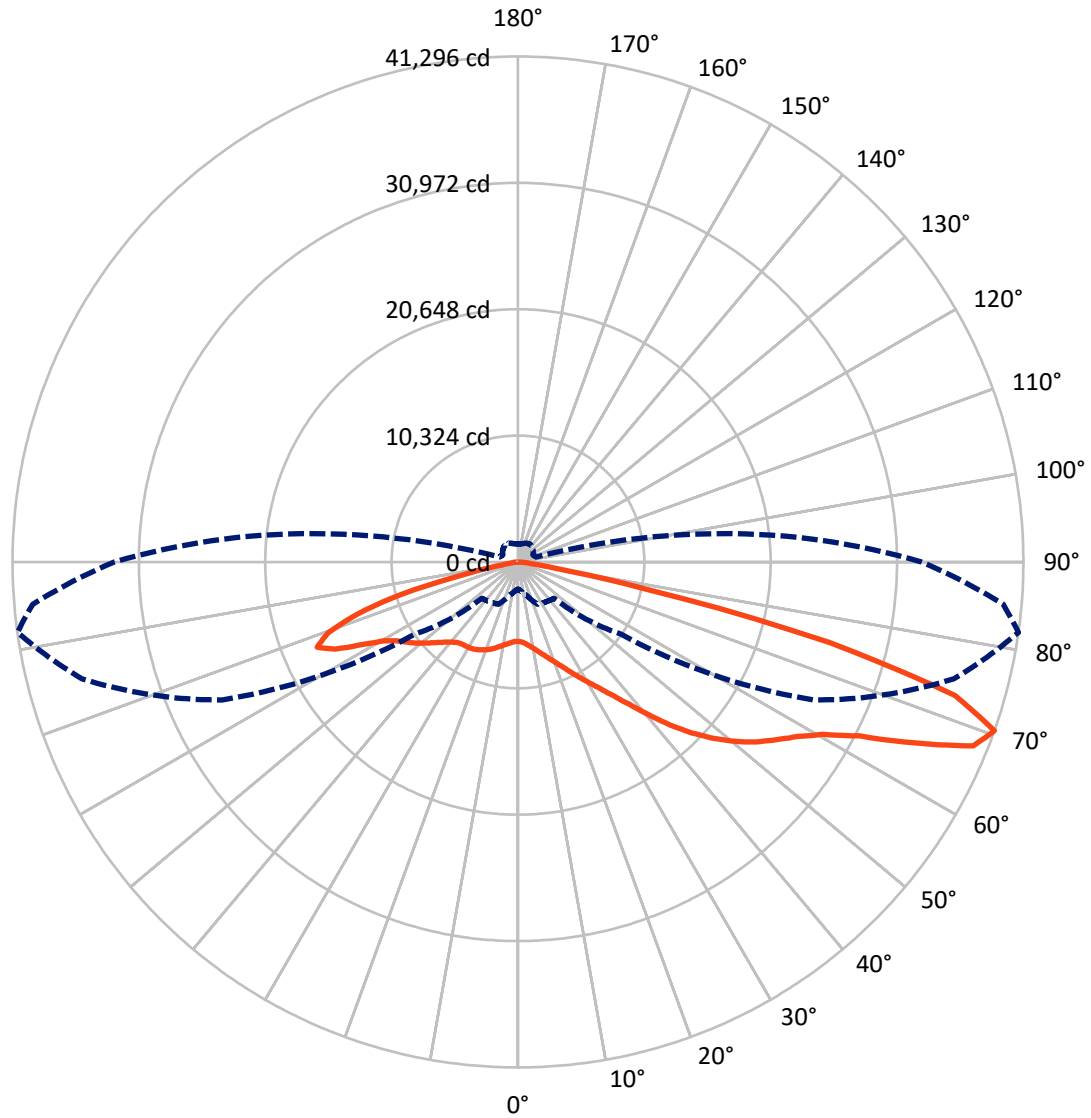
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	10894.2	0.0	10894.2
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	33296.8	0.0	33296.8
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	44191.0	0.0	44191.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	611.7	1.4
10°-20°	1757.5	4.0
20°-30°	2940.2	6.7
30°-40°	4593.3	10.4
40°-50°	7315.4	16.6
50°-60°	10180.2	23.0
60°-70°	10649.0	24.1
70°-80°	5565.7	12.6
80°-90°	577.9	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°	44191.0	100.0
0°-180°	44191.0	100.0

**Coefficient of Utilization**



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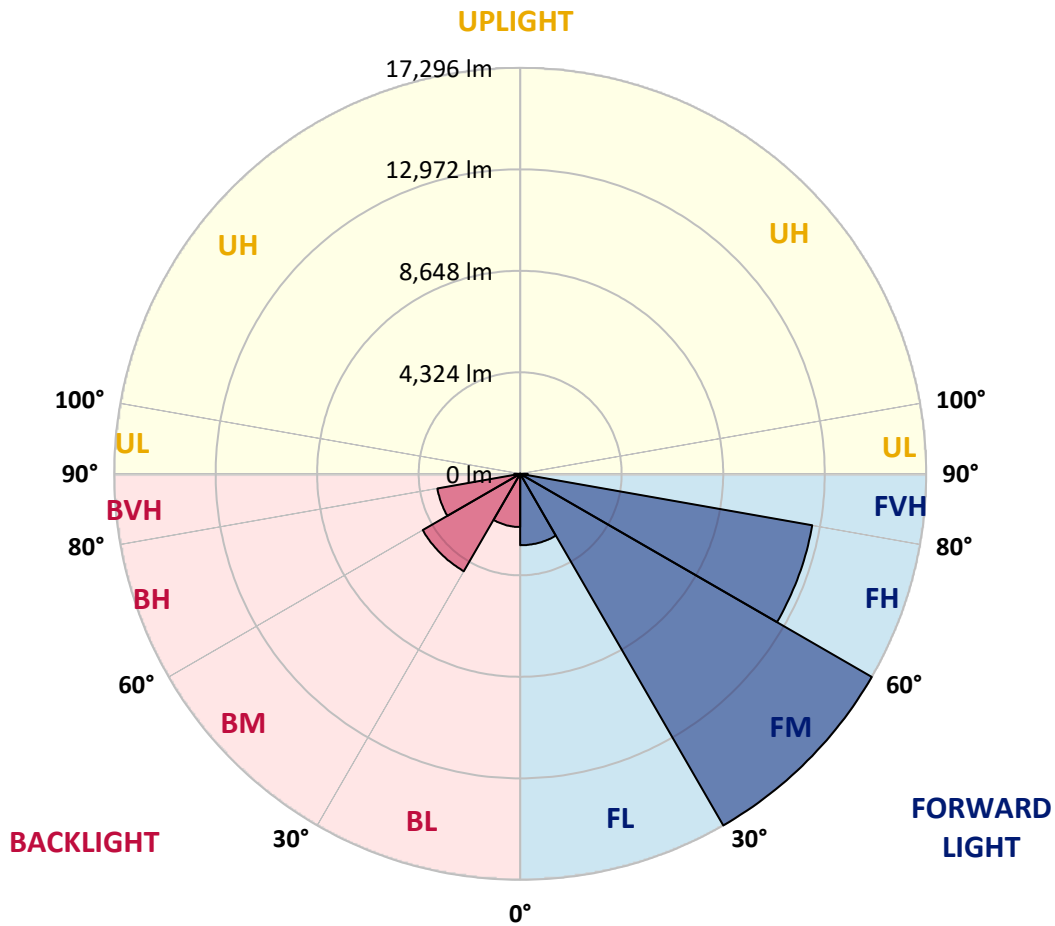
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3043.0	6.9			
FM (30°-60°)	17295.9	39.1			
FH (60°-80°)	12634.4	28.6			G5
FVH (80°-90°)	323.5	0.7			G3/500
BL (0°-30°)	2266.4	5.1	B3/2500		
BM (30°-60°)	4793.0	10.8	B3/5000		
BH (60°-80°)	3580.4	8.1	B4/5000		G4/5000
BVH (80°-90°)	254.4	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-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6479.0	6479.0	6479.0	6479.0	6479.0	6479.0	6479.0	6479.0	6479.0	6479.0
2.5°	6633.7	6671.2	6659.5	6647.8	6647.8	6631.4	6629.0	6605.6	6586.8	6556.3
5°	6718.1	6758.0	6753.3	6762.7	6793.2	6800.2	6807.2	6793.2	6755.7	6718.1
7.5°	6643.1	6687.6	6701.7	6758.0	6851.8	6936.2	6999.5	7025.3	6990.1	6936.2
10°	6389.8	6439.1	6488.3	6622.0	6788.5	6987.8	7156.6	7257.5	7250.4	7198.8
12.5°	5876.3	5927.9	6033.4	6293.7	6598.5	6950.3	7264.5	7475.5	7548.2	7510.7
15°	5466.0	5510.5	5590.2	5857.6	6253.8	6788.5	7304.4	7714.7	7900.0	7878.9
17.5°	5454.2	5473.0	5522.2	5648.9	5953.7	6535.2	7262.1	7949.2	8303.3	8300.9
20°	5660.6	5667.6	5695.8	5721.6	5895.1	6342.9	7154.3	8143.8	8755.8	8755.8
22.5°	5946.7	5942.0	5970.1	5946.7	6031.1	6326.5	7086.3	8315.0	9260.0	9297.5
25°	6375.8	6352.3	6345.3	6291.4	6307.8	6479.0	7161.3	8509.6	9858.0	9935.3
27.5°	6947.9	6910.4	6884.6	6760.3	6718.1	6793.2	7391.1	8744.1	10523.9	10657.6
30°	7693.6	7625.6	7588.1	7372.4	7219.9	7231.7	7738.2	9056.0	11220.3	11436.1
32.5°	8711.3	8605.8	8504.9	8150.9	7871.8	7780.4	8186.0	9487.5	11975.4	12320.1
35°	9850.9	9766.5	9658.6	9112.3	8683.2	8472.1	8791.0	10090.1	12859.4	13405.8
37.5°	10948.3	10875.6	10927.2	10190.9	9637.5	9330.3	9583.6	10899.1	13949.8	14756.4
40°	12083.3	12027.0	12034.0	11330.5	10685.7	10341.0	10545.0	11914.4	15199.6	16362.7
42.5°	13316.7	13274.5	13133.8	12510.0	11785.5	11464.2	11651.8	13086.9	16540.9	18191.7
45°	14697.8	14672.0	14540.7	13825.5	12995.4	12634.3	12887.6	14381.3	17889.2	19912.9
47.5°	15891.4	15912.5	15896.1	15293.4	14432.8	13902.9	14205.4	15731.9	19143.7	21530.9
50°	16465.9	16576.1	16737.9	16550.3	16015.7	15476.3	15534.9	17035.7	20339.6	23048.0
52.5°	16165.7	16374.4	16815.3	17115.4	17321.8	17209.2	17052.1	18330.1	21465.2	24417.4
55°	15047.2	15340.3	16071.9	16796.5	17849.4	18667.7	18874.1	19765.1	22562.6	25622.7
57.5°	13009.5	13485.5	14142.1	15607.6	17380.4	19373.5	20998.6	21756.0	23725.7	26910.0
60°	9515.6	10153.4	10969.4	13150.2	15739.0	18996.0	22806.5	24813.7	25378.8	28577.3
62.5°	6089.7	6483.6	7234.0	9288.1	12263.8	17061.5	23359.9	28635.9	28181.0	31311.4
65°	4169.2	4422.5	5109.5	6263.2	7928.1	12700.0	21877.9	31501.4	32631.6	35644.8
67.5°	3029.6	3221.9	3808.1	4818.8	5165.8	7515.4	16977.1	31370.0	36957.9	40109.5
70°	2208.9	2344.9	2837.3	3808.1	3974.6	4181.0	10284.7	26666.2	36864.1	41296.0
72.5°	1636.7	1730.5	2061.2	2954.6	3217.2	2823.3	5090.8	19380.6	31677.2	37351.9
75°	1184.2	1254.5	1498.4	2260.5	2574.7	2150.3	2539.5	11325.9	22096.0	26274.6
77.5°	905.1	959.1	1118.5	1655.5	2061.2	1613.3	1575.8	5210.4	10477.0	10528.6
80°	726.9	762.1	848.9	1165.4	1580.5	1207.6	1027.1	2103.4	3311.0	2802.2
82.5°	534.6	593.3	717.5	818.4	1130.2	832.4	626.1	1062.2	1259.2	1083.3
85°	304.8	344.7	433.8	586.2	722.2	508.8	358.8	471.3	586.2	480.7
87.5°	107.9	140.7	152.4	229.8	314.2	211.0	138.3	136.0	192.3	143.0
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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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6479.0	0°	6479.0	6479.0	6479.0	6479.0	6479.0	6479.0	6479.0	6479.0	6479.0	6479.0
6549.3	2.5°	6525.9	6514.1	6467.2	6403.9	6338.3	6274.9	6253.8	6209.3	6178.8	6162.4
6701.7	5°	6657.2	6619.6	6509.4	6368.7	6221.0	6061.6	5949.0	5845.8	5770.8	5700.4
6910.4	7.5°	6844.8	6779.1	6589.2	6342.9	6080.3	5815.3	5618.4	5468.3	5367.5	5301.8
7154.3	10°	7062.8	6962.0	6671.2	6303.1	5897.4	5517.5	5285.4	5156.4	5093.1	5057.9
7433.3	12.5°	7313.7	7170.7	6755.7	6211.6	5618.4	5184.6	5025.1	4987.6	4989.9	4992.3
7785.1	15°	7623.3	7423.9	6823.7	6012.3	5254.9	4929.0	4900.8	4961.8	5025.1	5055.6
8183.7	17.5°	7972.7	7691.3	6835.4	5684.0	4898.5	4764.8	4853.9	4985.3	5081.4	5123.6
8629.2	20°	8347.8	7963.3	6751.0	5219.7	4605.4	4631.2	4790.6	4959.5	5065.0	5118.9
9138.1	22.5°	8777.0	8254.0	6549.3	4732.0	4366.2	4485.8	4673.4	4837.5	4947.7	5001.7
9736.0	25°	9267.0	8580.0	6232.7	4321.6	4159.8	4321.6	4509.2	4645.2	4734.3	4783.6
10404.3	27.5°	9811.1	8920.0	5810.7	3995.7	3979.3	4152.8	4307.6	4413.1	4460.0	4497.5
11114.8	30°	10357.4	9229.5	5299.5	3749.5	3822.2	3986.3	4096.5	4143.4	4157.5	4164.5
11907.4	32.5°	10948.3	9496.8	4762.5	3545.5	3672.1	3824.5	3890.2	3911.3	3845.6	3801.1
12868.8	35°	11663.5	9782.9	4237.2	3383.7	3524.4	3655.7	3676.8	3658.0	3580.7	3489.2
14074.1	37.5°	12547.5	10139.3	3817.5	3268.8	3386.0	3472.8	3447.0	3442.3	3449.3	3341.5
15523.2	40°	13630.9	10603.6	3510.3	3179.7	3273.5	3292.2	3219.5	3259.4	3294.6	3130.4
17113.1	42.5°	14833.8	11164.1	3315.7	3118.7	3179.7	3135.1	3022.6	3067.1	3062.4	2846.7
18709.9	45°	16060.2	11773.7	3247.7	3074.2	3092.9	3003.8	2879.5	2891.3	2792.8	2598.1
20241.2	47.5°	17279.6	12428.0	3289.9	3036.6	2985.1	2884.2	2788.1	2736.5	2591.1	2445.7
21709.1	50°	18475.5	13115.0	3444.7	2961.6	2837.3	2778.7	2708.4	2616.9	2462.1	2337.9
23097.2	52.5°	19584.6	13806.8	3618.2	2837.3	2652.1	2687.3	2642.7	2537.2	2384.8	2258.1
24410.4	55°	20635.1	14498.5	3686.2	2666.1	2478.6	2607.5	2581.7	2387.1	2204.2	2101.0
25784.5	57.5°	21779.4	15330.9	3611.1	2448.1	2337.9	2516.1	2417.6	2201.9	2096.3	2019.0
27573.7	60°	23364.6	16637.1	3449.3	2178.4	2204.2	2380.1	2211.2	2122.1	2007.2	1920.5
30256.2	62.5°	25997.9	19073.4	3189.1	1911.1	2047.1	2178.4	2112.8	2023.6	1906.4	1822.0
34842.8	65°	29890.4	22459.4	2699.0	1702.4	1871.2	1981.4	2007.2	1918.1	1796.2	1707.1
38862.0	67.5°	33173.3	24583.9	2042.4	1528.9	1690.7	1822.0	1894.7	1807.9	1678.9	1592.2
39802.3	70°	32992.7	23041.0	1559.4	1357.7	1531.2	1664.9	1758.7	1690.7	1552.3	1470.3
36153.6	72.5°	29304.2	19275.1	1261.6	1184.2	1369.4	1500.7	1613.3	1561.7	1421.0	1341.3
26485.6	75°	21528.5	13682.5	1008.3	1008.3	1167.8	1329.6	1453.8	1421.0	1292.0	1235.8
11119.5	77.5°	9074.8	5740.3	790.2	837.1	970.8	1142.0	1296.7	1308.5	1195.9	1266.2
2940.5	80°	2412.9	1582.8	602.6	658.9	762.1	942.6	1127.9	1123.2	1001.3	935.6
1092.7	82.5°	919.2	623.7	429.1	464.3	551.1	722.2	893.4	921.5	799.6	691.7
429.1	85°	354.1	267.3	265.0	279.0	321.3	478.4	675.3	698.8	602.6	511.2
119.6	87.5°	91.5	79.7	98.5	93.8	147.7	255.6	386.9	401.0	368.1	213.4
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>
6479.0
6181.2
5728.6
5315.9
5067.3
4997.0
5053.3
5133.0
5133.0
5015.7
4797.7
4511.6
4181.0
3815.1
3493.9
3348.5
3135.1
2844.4
2605.2
2445.7
2328.5
2260.5
2091.6
2011.9
1915.8
1822.0
1711.8
1594.5
1477.3
1341.3
1219.3
1149.0
870.0
691.7
527.6
304.8
0.0

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