

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: P944567

Luminaire Tested: **GALN-SB9C-827-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944567  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9C-827-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

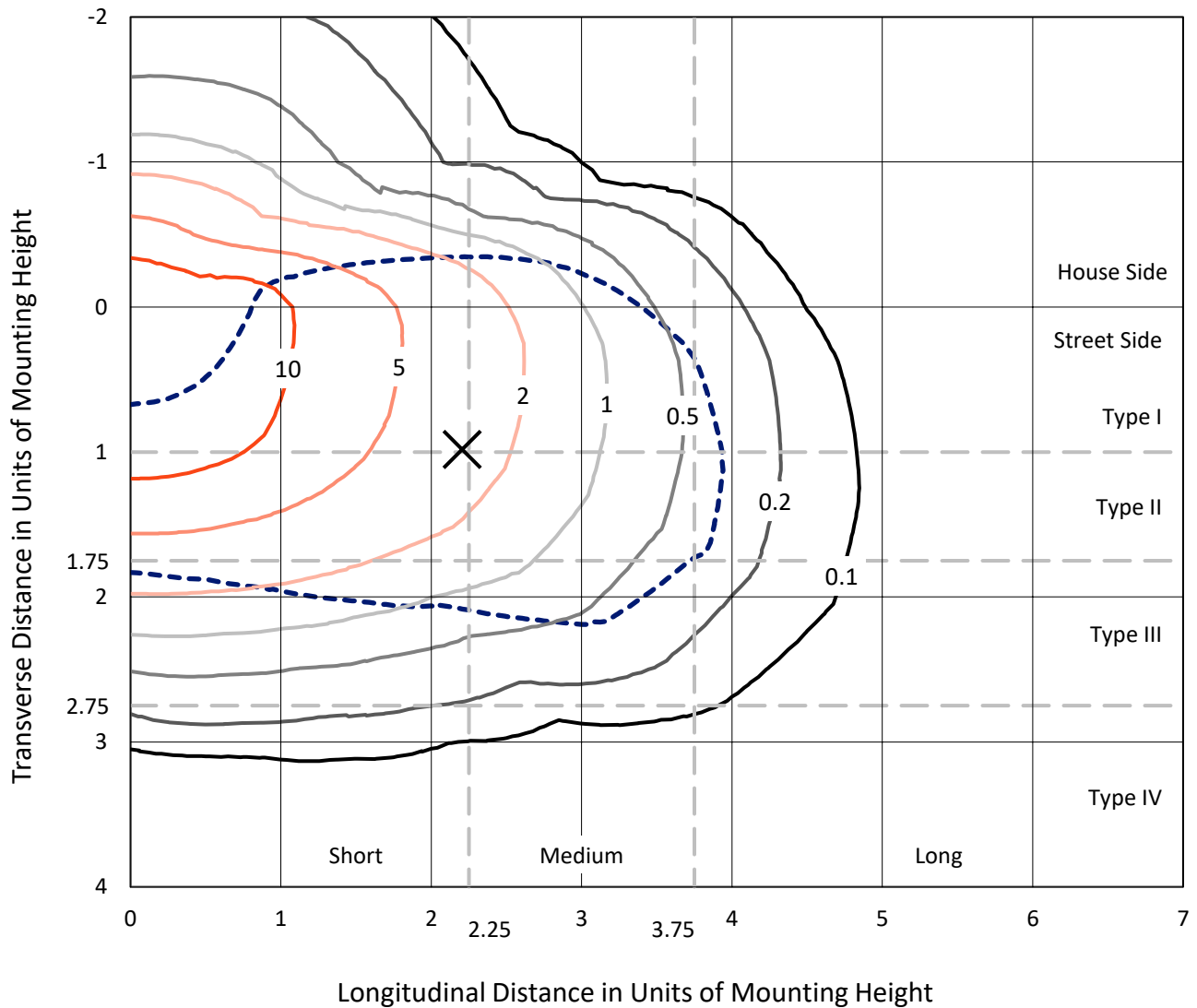
Lumens per Lamp: N/A  
Luminaire Lumens: 59356 lumens  
Efficiency: N/A  
Efficacy: 132.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

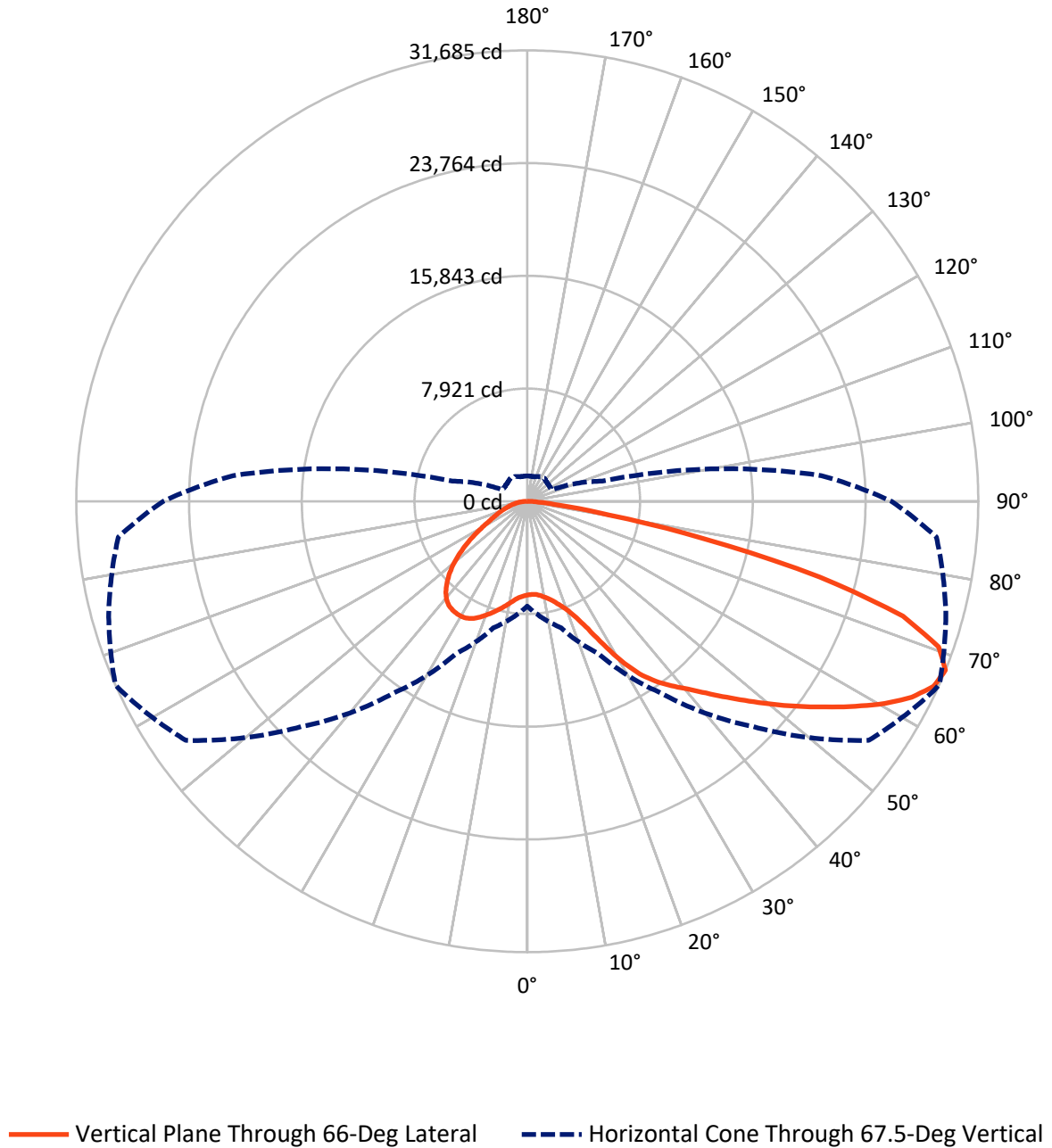
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14758.7	0.0	14758.7
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	44597.3	0.0	44597.3
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	59356.0	0.0	59356.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	652.7	1.1
10°-20°	2156.5	3.6
20°-30°	4156.5	7.0
30°-40°	7287.9	12.3
40°-50°	10834.7	18.3
50°-60°	13734.0	23.1
60°-70°	13438.4	22.6
70°-80°	6410.2	10.8
80°-90°	685.1	1.2
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°	59356.0	100.0
0°-180°	59356.0	100.0

**Coefficient of Utilization**



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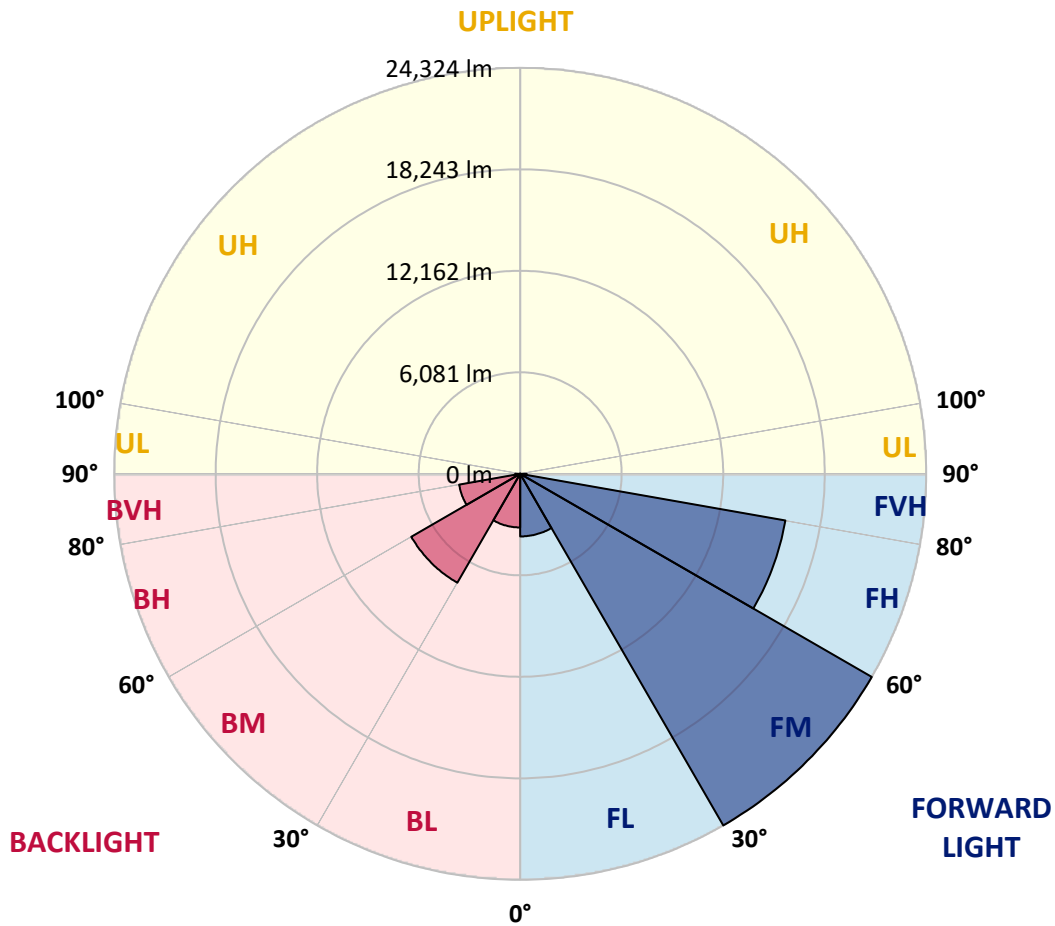
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3750.7	6.3			
FM (30°-60°)	24323.6	41.0			
FH (60°-80°)	16134.6	27.2			G5
FVH (80°-90°)	388.4	0.7			G3/500
BL (0°-30°)	3215.0	5.4	B4/5000		
BM (30°-60°)	7533.0	12.7	B4/8500		
BH (60°-80°)	3714.1	6.3	B4/5000		G4/5000
BVH (80°-90°)	296.7	0.5			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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	6583.4	6583.4	6583.4	6583.4	6583.4	6583.4	6583.4	6583.4	6583.4	6583.4
2.5°	6514.8	6552.2	6542.8	6527.2	6524.1	6530.3	6539.7	6549.1	6545.9	6561.5
5°	6496.0	6533.5	6530.3	6530.3	6542.8	6567.8	6583.4	6599.0	6583.4	6602.1
7.5°	6508.5	6536.6	6549.1	6561.5	6592.7	6639.5	6676.9	6711.2	6692.5	6714.3
10°	6667.6	6689.4	6701.9	6701.9	6723.7	6776.7	6814.1	6876.5	6860.9	6895.2
12.5°	6957.6	6979.4	6979.4	6967.0	6982.5	7016.9	7029.3	7097.9	7069.9	7126.0
15°	7313.1	7356.8	7322.5	7300.6	7306.9	7341.2	7338.1	7391.1	7363.0	7409.8
17.5°	7706.1	7762.2	7706.1	7702.9	7690.5	7727.9	7731.0	7777.8	7727.9	7762.2
20°	8170.7	8248.7	8201.9	8217.5	8189.4	8205.0	8220.6	8289.2	8211.3	8236.2
22.5°	8825.6	8919.2	8869.3	8928.6	8909.8	8897.4	8894.2	9015.9	8894.2	8903.6
25°	9779.9	9892.2	9804.9	9886.0	9886.0	9926.5	9973.3	10129.2	9926.5	9867.3
27.5°	11189.5	11301.8	11130.3	11180.2	11164.6	11264.4	11214.5	11601.2	11382.9	11286.2
30°	12886.1	13085.6	12761.3	12748.8	12733.2	12892.3	12964.0	13219.7	12998.3	12901.6
32.5°	14719.8	14928.7	14542.0	14429.8	14370.5	14467.2	14407.9	14613.8	14460.9	14311.3
35°	16659.6	16865.4	16497.4	16279.1	16042.1	15839.4	15627.3	15680.3	15536.9	15309.2
37.5°	18493.3	18870.6	18480.8	18246.9	17810.3	17414.3	16821.7	16575.4	16441.3	16232.3
40°	20361.3	20576.5	20280.3	20080.7	19606.6	18986.0	18038.0	17517.2	17336.3	17133.6
42.5°	21736.6	21942.5	21783.4	21646.2	21275.1	20554.7	19329.1	18677.3	18415.3	18187.7
45°	22828.2	22981.0	22881.2	22931.1	22772.0	22073.5	20667.0	19921.6	19650.3	19372.7
47.5°	23267.9	23430.0	23589.1	23885.4	24156.7	23642.1	22104.6	21268.9	20981.9	20698.1
50°	23218.0	23383.3	23844.8	24474.8	25316.8	25145.3	23620.3	22703.4	22438.3	22114.0
52.5°	22818.8	23005.9	23598.4	24646.3	25987.3	26271.1	25164.0	24184.7	23935.3	23548.5
55°	21770.9	21883.2	22772.0	24256.5	26146.3	27057.0	26676.5	25762.8	25513.3	24973.7
57.5°	19828.1	19990.2	21284.4	23205.5	25747.2	27590.3	28005.0	27421.9	27181.7	26405.2
60°	17292.6	17551.5	19032.8	21440.4	24730.5	27587.1	29211.9	29052.9	28853.3	27814.8
62.5°	14423.5	14722.9	16148.1	18945.5	22952.9	26804.4	29966.6	30418.8	30315.9	29115.3
65°	11077.3	11283.1	12702.1	15717.7	20186.7	25123.4	30053.9	31351.3	31370.0	30103.8
67.5°	7375.5	7968.0	9199.9	11794.5	16481.8	22376.0	29286.8	31504.1	31685.0	30443.8
70°	3598.9	4378.5	5585.4	7665.5	11794.5	18162.7	27281.5	30250.4	30652.7	29452.1
72.5°	1493.8	1746.4	2404.4	3782.9	6770.5	12256.1	23252.3	26851.1	27596.5	26096.4
75°	1007.3	1091.5	1375.3	1939.8	3084.3	6043.8	16768.7	20021.4	21222.1	19709.6
77.5°	776.5	829.5	1001.1	1356.6	1833.7	2285.9	8975.3	12065.9	12686.5	11744.6
80°	611.2	651.8	748.5	988.6	1300.5	1222.5	3059.3	5466.9	5825.5	4886.8
82.5°	530.2	545.8	536.4	670.5	863.9	714.2	1004.2	2017.7	2226.7	1615.4
85°	383.6	427.2	446.0	414.8	458.4	361.8	411.7	714.2	785.9	701.7
87.5°	155.9	230.8	283.8	268.2	168.4	102.9	127.9	208.9	240.1	262.0
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°
6583.4	0°	6583.4	6583.4	6583.4	6583.4	6583.4	6583.4	6583.4	6583.4	6583.4	6583.4
6586.5	2.5°	6589.6	6611.4	6627.0	6645.7	6658.2	6676.9	6714.3	6736.2	6739.3	6754.9
6636.4	5°	6648.9	6680.0	6714.3	6764.2	6820.4	6867.2	6938.9	6988.8	7007.5	7023.1
6758.0	7.5°	6776.7	6820.4	6882.8	6970.1	7051.2	7113.5	7200.8	7260.1	7319.4	7341.2
6951.4	10°	6967.0	7029.3	7119.8	7238.3	7325.6	7406.7	7497.1	7547.0	7606.3	7631.2
7182.1	12.5°	7204.0	7269.5	7388.0	7553.2	7634.3	7690.5	7721.7	7709.2	7721.7	7743.5
7459.7	15°	7475.3	7547.0	7681.1	7858.9	7915.0	7865.1	7796.5	7734.1	7724.8	7731.0
7796.5	17.5°	7796.5	7849.5	8005.4	8155.1	8114.6	7908.8	7759.1	7659.3	7609.4	7593.8
8226.9	20°	8245.6	8245.6	8373.4	8467.0	8195.7	7846.4	7612.5	7450.3	7347.4	7303.8
8813.2	22.5°	8791.3	8741.4	8822.5	8757.0	8180.1	7671.8	7347.4	7066.7	6910.8	6848.4
9633.4	25°	9483.7	9424.4	9402.6	8997.2	8067.8	7394.2	6867.2	6527.2	6390.0	6355.7
10815.3	27.5°	10528.4	10378.7	10094.9	9128.1	7862.0	6957.6	6305.8	5990.8	5912.9	5916.0
12334.1	30°	11919.3	11619.9	10924.5	9150.0	7525.2	6340.1	5732.0	5507.4	5470.0	5485.6
13609.6	32.5°	13207.3	12923.5	11772.7	9050.2	7007.5	5735.1	5217.4	5067.7	5011.6	5030.3
14582.6	35°	14217.7	14139.7	12558.6	8909.8	6371.3	5167.5	4755.9	4628.0	4518.9	4493.9
15499.4	37.5°	15172.0	15140.8	13148.0	8713.4	5741.3	4765.2	4384.8	4216.3	4057.3	3970.0
16513.0	40°	16219.8	16188.7	13534.7	8410.9	5183.1	4415.9	4051.1	3829.6	3633.2	3474.1
17660.6	42.5°	17398.7	17214.7	13718.7	7977.4	4709.1	4119.7	3779.7	3480.4	3221.5	3074.9
18958.0	45°	18686.7	18271.9	13715.6	7425.4	4309.9	3848.4	3489.7	3065.6	2825.5	2688.2
20289.6	47.5°	20052.6	19282.3	13547.2	6814.1	3923.2	3549.0	3040.6	2716.3	2557.3	2473.0
21736.6	50°	21462.2	20227.2	13260.3	6112.5	3527.1	3209.0	2760.0	2538.5	2416.9	2339.0
23171.2	52.5°	22787.6	21084.9	12914.1	5317.2	3124.8	2878.5	2635.2	2463.7	2335.8	2248.5
24562.1	55°	24019.5	21824.0	12424.5	4503.3	2797.4	2657.0	2576.0	2432.5	2285.9	2183.0
25974.8	57.5°	25114.1	22304.2	11579.4	3739.2	2563.5	2504.2	2513.6	2379.5	2211.1	2123.8
27365.7	60°	26024.7	22656.6	10328.8	3031.3	2373.3	2354.5	2416.9	2279.7	2083.2	1983.4
28541.4	62.5°	26570.5	22650.4	8794.5	2482.4	2211.1	2217.3	2289.1	2155.0	1955.4	1861.8
29155.8	65°	26523.7	22095.3	7110.4	2123.8	2055.2	2061.4	2155.0	2017.7	1849.3	1793.2
28847.1	67.5°	25585.0	20741.8	5454.4	1889.9	1883.6	1911.7	2020.9	1924.2	1783.8	1777.6
27007.1	70°	23043.3	17932.0	3929.4	1702.8	1705.9	1746.4	1889.9	1864.9	1749.5	1762.0
22706.5	72.5°	18477.7	13671.9	2638.3	1506.3	1509.4	1574.9	1765.1	1818.1	1715.2	1880.5
16110.7	75°	12306.0	8526.3	1696.5	1297.3	1300.5	1384.7	1656.0	1727.7	1621.7	1874.3
8382.8	77.5°	5912.9	3832.8	1228.7	1091.5	1091.5	1169.5	1431.4	1546.8	1381.5	1456.4
2694.5	80°	2042.7	1440.8	966.8	879.4	860.7	913.7	1206.9	1341.0	1191.3	1097.7
879.4	82.5°	804.6	748.5	776.5	683.0	620.6	654.9	938.7	1107.1	876.3	792.1
495.9	85°	461.6	486.5	548.9	452.2	358.6	402.3	689.2	795.2	661.1	583.2
162.2	87.5°	124.7	171.5	252.6	233.9	162.2	171.5	327.5	439.7	380.5	293.1
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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180°  
6583.4  
6751.8  
7020.0  
7344.3  
7643.7  
7749.7  
7752.8  
7615.6  
7294.4  
6839.1  
6361.9  
5925.3  
5538.6  
5055.3  
4512.6  
3973.1  
3489.7  
3084.3  
2682.0  
2454.3  
2310.9  
2211.1  
2142.5  
2067.6  
1939.8  
1833.7  
1790.1  
*1787.0*  
1758.9  
1905.5  
1889.9  
1334.8  
1029.1  
789.0  
595.7  
302.5  
0.0

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