

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: P944787

Luminaire Tested: **GALN-SB9D-927-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944787  
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-SB9D-927-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

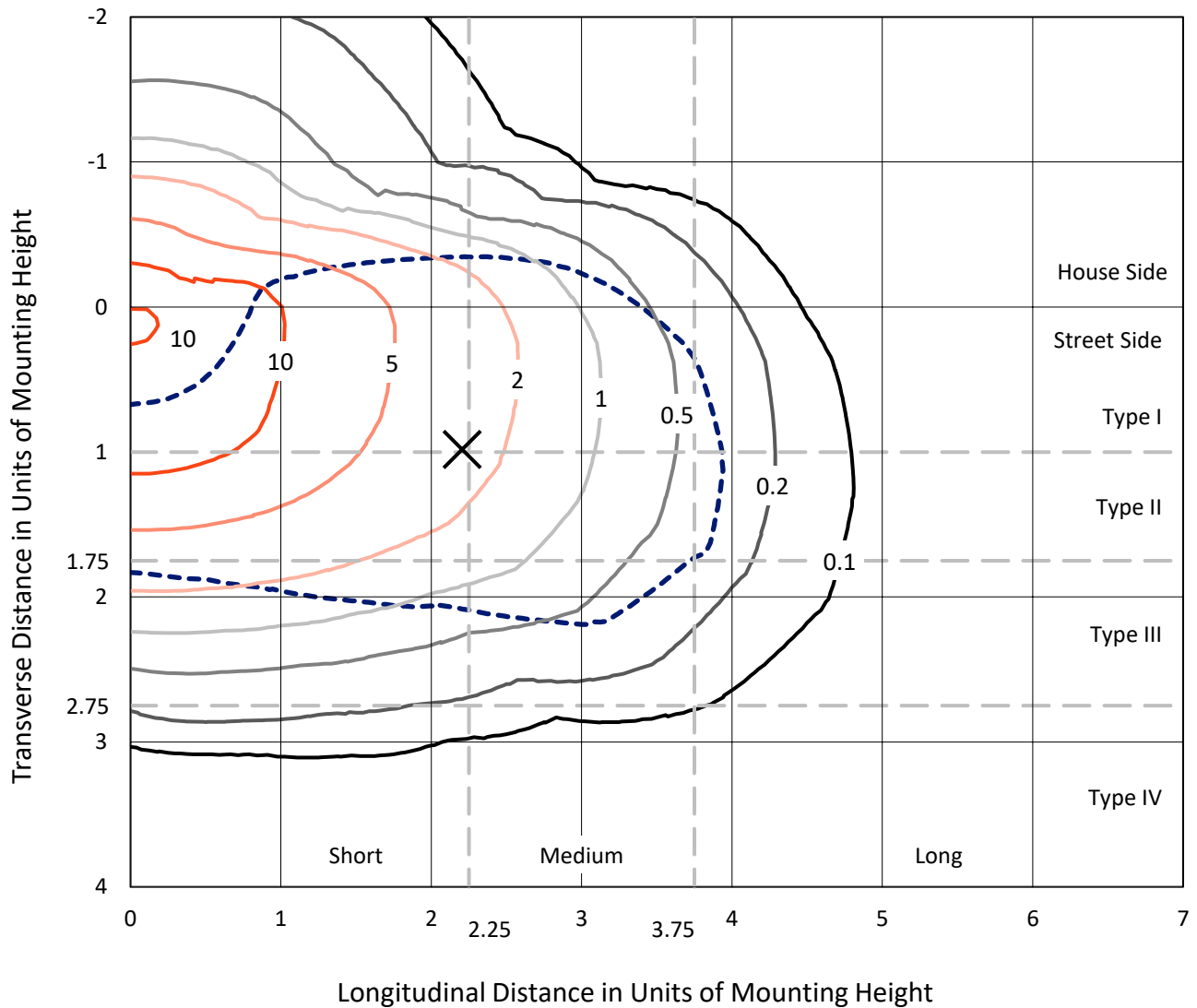
Lumens per Lamp: N/A  
Luminaire Lumens: 56456 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

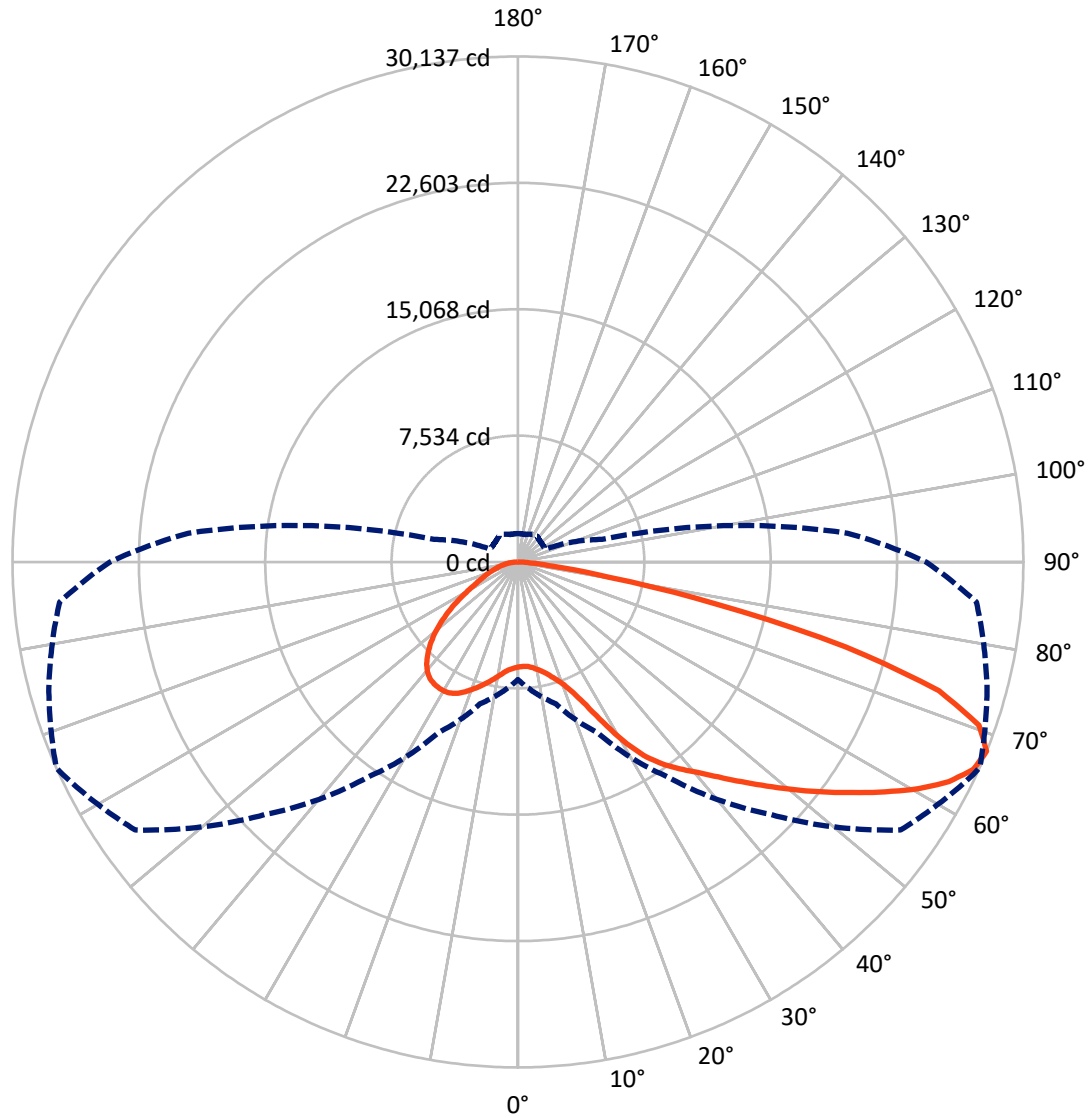
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14037.6	0.0	14037.6
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	42418.4	0.0	42418.4
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	56456.0	0.0	56456.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	620.8	1.1
10°-20°	2051.1	3.6
20°-30°	3953.4	7.0
30°-40°	6931.8	12.3
40°-50°	10305.3	18.3
50°-60°	13063.0	23.1
60°-70°	12781.8	22.6
70°-80°	6097.1	10.8
80°-90°	651.6	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°	56456.0	100.0
0°-180°	56456.0	100.0

**Coefficient of Utilization**



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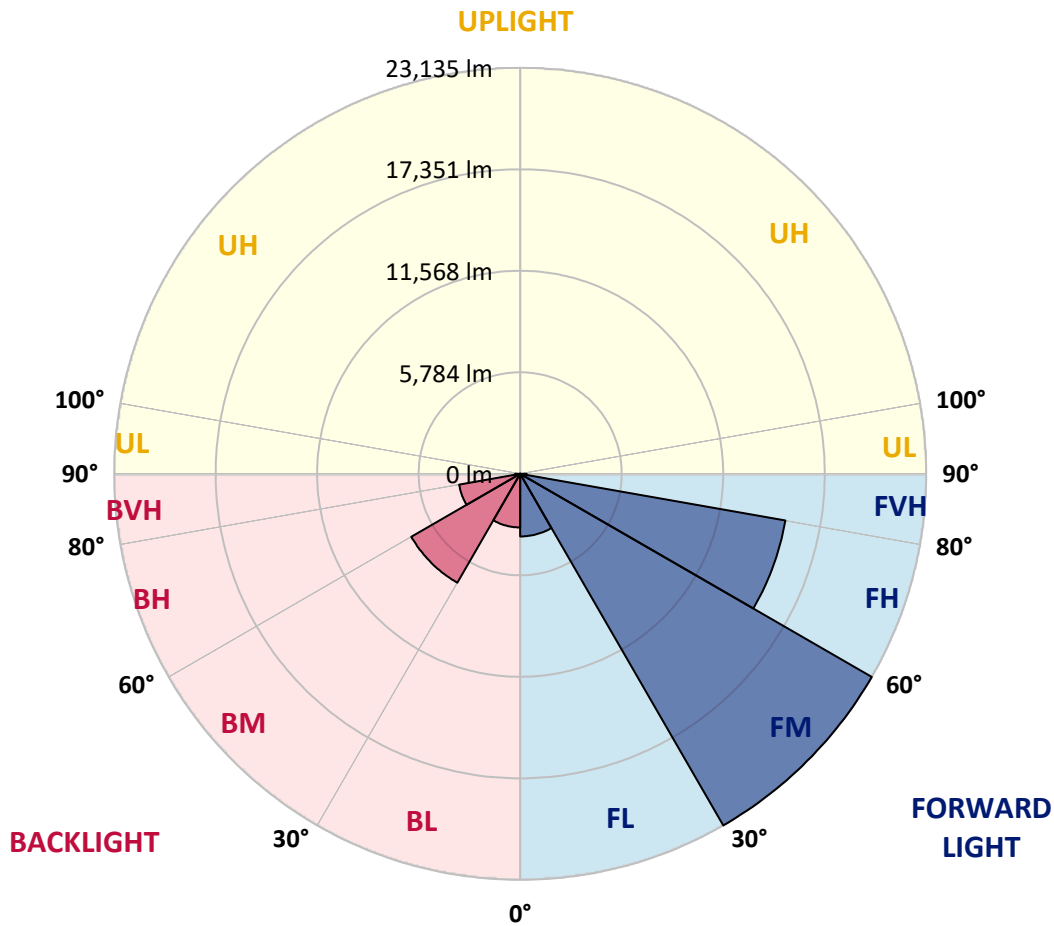
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3567.5	6.3			
FM (30°-60°)	23135.2	41.0			
FH (60°-80°)	15346.3	27.2			G5
FVH (80°-90°)	369.4	0.7			G3/500
BL (0°-30°)	3057.9	5.4	B4/5000		
BM (30°-60°)	7165.0	12.7	B4/8500		
BH (60°-80°)	3532.6	6.3	B4/5000		G4/5000
BVH (80°-90°)	282.2	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°	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7
2.5°	6196.5	6232.1	6223.2	6208.3	6205.4	6211.3	6220.2	6229.1	6226.1	6241.0
5°	6178.7	6214.3	6211.3	6211.3	6223.2	6246.9	6261.7	6276.5	6261.7	6279.5
7.5°	6190.5	6217.2	6229.1	6241.0	6270.6	6315.1	6350.7	6383.3	6365.5	6386.3
10°	6341.8	6362.6	6374.4	6374.4	6395.2	6445.6	6481.2	6540.5	6525.7	6558.3
12.5°	6617.7	6638.4	6638.4	6626.6	6641.4	6674.0	6685.9	6751.1	6724.4	6777.8
15°	6955.8	6997.3	6964.7	6943.9	6949.9	6982.5	6979.5	7030.0	7003.3	7047.8
17.5°	7329.6	7383.0	7329.6	7326.6	7314.7	7350.3	7353.3	7397.8	7350.3	7383.0
20°	7771.5	7845.7	7801.2	7816.0	7789.3	7804.2	7819.0	7884.2	7810.1	7833.8
22.5°	8394.4	8483.4	8436.0	8492.3	8474.5	8462.7	8459.7	8575.4	8459.7	8468.6
25°	9302.1	9408.9	9325.8	9403.0	9403.0	9441.5	9486.0	9634.3	9441.5	9385.2
27.5°	10642.8	10749.6	10586.5	10633.9	10619.1	10714.0	10666.6	11034.4	10826.7	10734.8
30°	12256.5	12446.3	12137.8	12126.0	12111.1	12262.4	12330.6	12573.9	12363.3	12271.3
32.5°	14000.6	14199.4	13831.5	13724.8	13668.4	13760.4	13704.0	13899.8	13754.4	13612.0
35°	15845.6	16041.4	15691.4	15483.7	15258.3	15065.5	14863.8	14914.2	14777.8	14561.2
37.5°	17589.8	17948.7	17577.9	17355.4	16940.2	16563.4	15999.9	15765.5	15638.0	15439.2
40°	19366.5	19571.2	19289.4	19099.6	18648.7	18058.4	17156.7	16661.3	16489.3	16296.5
42.5°	20674.6	20870.4	20719.1	20588.6	20235.6	19550.4	18384.7	17764.8	17515.6	17299.1
45°	21712.8	21858.2	21763.2	21810.7	21659.4	20995.0	19657.2	18948.3	18690.2	18426.2
47.5°	22131.1	22285.3	22436.6	22718.4	22976.4	22487.0	21024.7	20229.7	19956.8	19686.9
50°	22083.6	22240.8	22679.8	23279.0	24079.9	23916.7	22466.2	21594.2	21342.0	21033.6
52.5°	21703.9	21881.9	22445.5	23442.1	24717.6	24987.5	23934.5	23003.1	22765.8	22398.0
55°	20707.3	20814.1	21659.4	23071.4	24868.9	25735.0	25373.2	24504.0	24266.7	23753.6
57.5°	18859.3	19013.5	20244.5	22071.7	24489.2	26242.3	26636.8	26082.1	25853.7	25115.1
60°	16447.8	16694.0	18102.9	20392.8	23522.2	26239.3	27784.7	27633.4	27443.6	26455.8
62.5°	13718.8	14003.6	15359.2	18019.9	21831.5	25494.8	28502.5	28932.6	28834.7	27692.7
65°	10536.1	10731.8	12081.5	14949.8	19200.4	23896.0	28585.6	29819.5	29837.3	28633.0
67.5°	7015.1	7578.7	8750.4	11218.3	15676.5	21282.7	27855.9	29964.9	30136.9	28956.4
70°	3423.0	4164.6	5312.5	7291.0	11218.3	17275.3	25948.6	28772.5	29155.1	28013.1
72.5°	1420.8	1661.1	2287.0	3598.0	6439.7	11657.3	22116.2	25539.3	26248.2	24821.4
75°	958.1	1038.2	1308.1	1845.0	2933.6	5748.6	15949.4	19043.2	20185.2	18746.6
77.5°	738.6	789.0	952.2	1290.3	1744.1	2174.2	8536.8	11476.4	12066.6	11170.8
80°	581.4	619.9	711.9	940.3	1236.9	1162.8	2909.9	5199.8	5540.9	4648.1
82.5°	504.3	519.1	510.2	637.7	821.6	679.3	955.1	1919.2	2117.9	1536.5
85°	364.8	406.4	424.2	394.5	436.0	344.1	391.5	679.3	747.5	667.4
87.5°	148.3	219.5	269.9	255.1	160.2	97.9	121.6	198.7	228.4	249.2
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°
6261.7	0°	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7	6261.7
6264.7	2.5°	6267.6	6288.4	6303.2	6321.0	6332.9	6350.7	6386.3	6407.1	6410.0	6424.9
6312.1	5°	6324.0	6353.7	6386.3	6433.8	6487.2	6531.6	6599.9	6647.3	6665.1	6680.0
6427.8	7.5°	6445.6	6487.2	6546.5	6629.5	6706.7	6766.0	6849.0	6905.4	6961.7	6982.5
6611.7	10°	6626.6	6685.9	6771.9	6884.6	6967.7	7044.8	7130.8	7178.3	7234.6	7258.4
6831.2	12.5°	6852.0	6914.3	7027.0	7184.2	7261.3	7314.7	7344.4	7332.5	7344.4	7365.2
7095.2	15°	7110.1	7178.3	7305.8	7474.9	7528.3	7480.8	7415.6	7356.3	7347.4	7353.3
7415.6	17.5°	7415.6	7466.0	7614.3	7756.7	7718.1	7522.4	7380.0	7285.1	7237.6	7222.8
7824.9	20°	7842.7	7842.7	7964.3	8053.3	7795.3	7463.0	7240.6	7086.3	6988.4	6946.9
8382.6	22.5°	8361.8	8314.3	8391.5	8329.2	7780.4	7296.9	6988.4	6721.5	6573.2	6513.8
9162.7	25°	9020.3	8964.0	8943.2	8557.6	7673.6	7032.9	6531.6	6208.3	6077.8	6045.2
10286.9	27.5°	10014.0	9871.6	9601.7	8682.2	7477.9	6617.7	5997.7	5698.1	5624.0	5626.9
11731.4	30°	11336.9	11052.2	10390.7	8702.9	7157.5	6030.4	5451.9	5238.4	5202.8	5217.6
12944.6	32.5°	12562.0	12292.1	11197.5	8608.0	6665.1	5454.9	4962.5	4820.1	4766.7	4784.5
13870.1	35°	13523.1	13448.9	11945.0	8474.5	6060.0	4915.0	4523.5	4401.9	4298.1	4274.3
14742.2	37.5°	14430.7	14401.1	12505.6	8287.7	5460.8	4532.4	4170.5	4010.3	3859.1	3776.0
15706.2	40°	15427.4	15397.7	12873.4	7999.9	4929.9	4200.2	3853.1	3642.5	3455.7	3304.4
16797.8	42.5°	16548.6	16373.6	13048.5	7587.6	4479.0	3918.4	3595.1	3310.3	3064.1	2924.7
18031.7	45°	17773.7	17379.2	13045.5	7062.6	4099.3	3660.3	3319.2	2915.8	2687.4	2556.9
19298.3	47.5°	19072.9	18340.2	12885.3	6481.2	3731.5	3375.6	2892.1	2583.6	2432.3	2352.2
20674.6	50°	20413.6	19239.0	12612.4	5813.8	3354.8	3052.3	2625.1	2414.5	2298.8	2224.7
22039.1	52.5°	21674.3	20054.7	12283.2	5057.4	2972.2	2737.8	2506.5	2343.3	2221.7	2138.7
23362.0	55°	22845.9	20757.7	11817.5	4283.2	2660.7	2527.2	2450.1	2313.7	2174.2	2076.4
24705.7	57.5°	23887.1	21214.5	11013.6	3556.5	2438.2	2381.9	2390.8	2263.2	2103.1	2020.0
26028.7	60°	24753.2	21549.7	9824.2	2883.2	2257.3	2239.5	2298.8	2168.3	1981.4	1886.5
27147.0	62.5°	25272.3	21543.7	8364.8	2361.1	2103.1	2109.0	2177.2	2049.7	1859.8	1770.8
27731.3	65°	25227.8	21015.8	6763.0	2020.0	1954.7	1960.7	2049.7	1919.2	1759.0	1705.6
27437.6	67.5°	24335.0	19728.4	5187.9	1797.5	1791.6	1818.3	1922.1	1830.2	1696.7	1690.8
25687.6	70°	21917.5	17055.8	3737.5	1619.6	1622.5	1661.1	1797.5	1773.8	1664.1	1675.9
21597.1	72.5°	17574.9	13004.0	2509.4	1432.7	1435.7	1497.9	1678.9	1729.3	1631.4	1788.6
15323.6	75°	11704.8	8109.7	1613.6	1234.0	1236.9	1317.0	1575.1	1643.3	1542.4	1782.7
7973.2	77.5°	5624.0	3645.5	1168.7	1038.2	1038.2	1112.3	1361.5	1471.3	1314.0	1385.2
2562.8	80°	1942.9	1370.4	919.5	836.5	818.7	869.1	1147.9	1275.5	1133.1	1044.1
836.5	82.5°	765.3	711.9	738.6	649.6	590.3	622.9	892.8	1053.0	833.5	753.4
471.6	85°	439.0	462.7	522.1	430.1	341.1	382.6	655.5	756.4	628.8	554.7
154.2	87.5°	118.6	163.1	240.3	222.5	154.2	163.1	311.5	418.2	361.9	278.8
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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180°  
6261.7  
6421.9  
6677.0  
6985.5  
7270.2  
7371.1  
7374.1  
7243.5  
6938.0  
6504.9  
6051.1  
5635.8  
5268.0  
4808.3  
4292.1  
3779.0  
3319.2  
2933.6  
2551.0  
2334.4  
2198.0  
2103.1  
2037.8  
1966.6  
1845.0  
1744.1  
1702.6  
**1699.7**  
1673.0  
1812.4  
1797.5  
1269.5  
978.9  
750.5  
566.6  
287.7  
0.0

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