

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: P944597

Luminaire Tested: **GALN-SB9C-840-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944597  
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-840-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

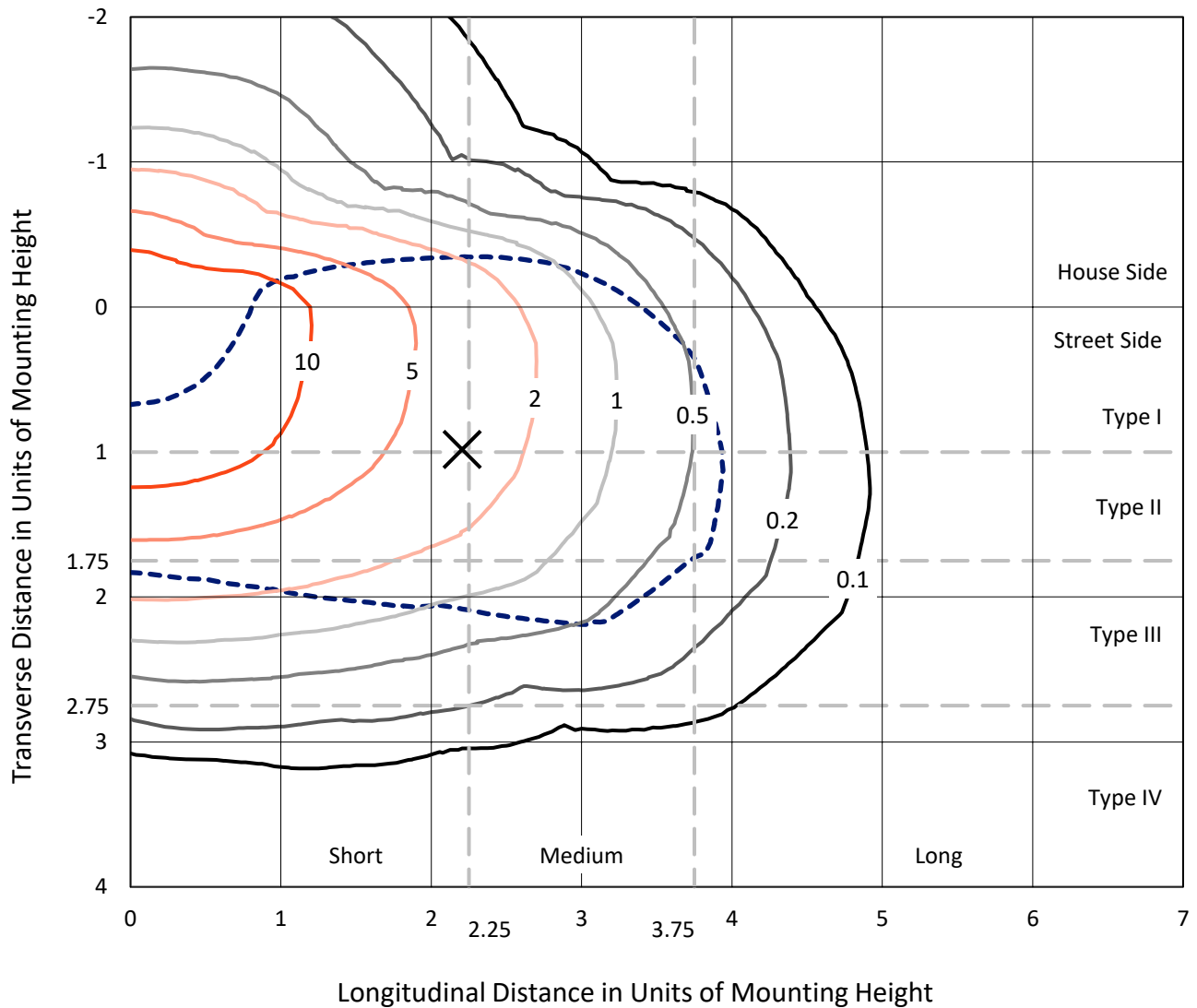
Lumens per Lamp: N/A  
Luminaire Lumens: 65292 lumens  
Efficiency: N/A  
Efficacy: 145.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

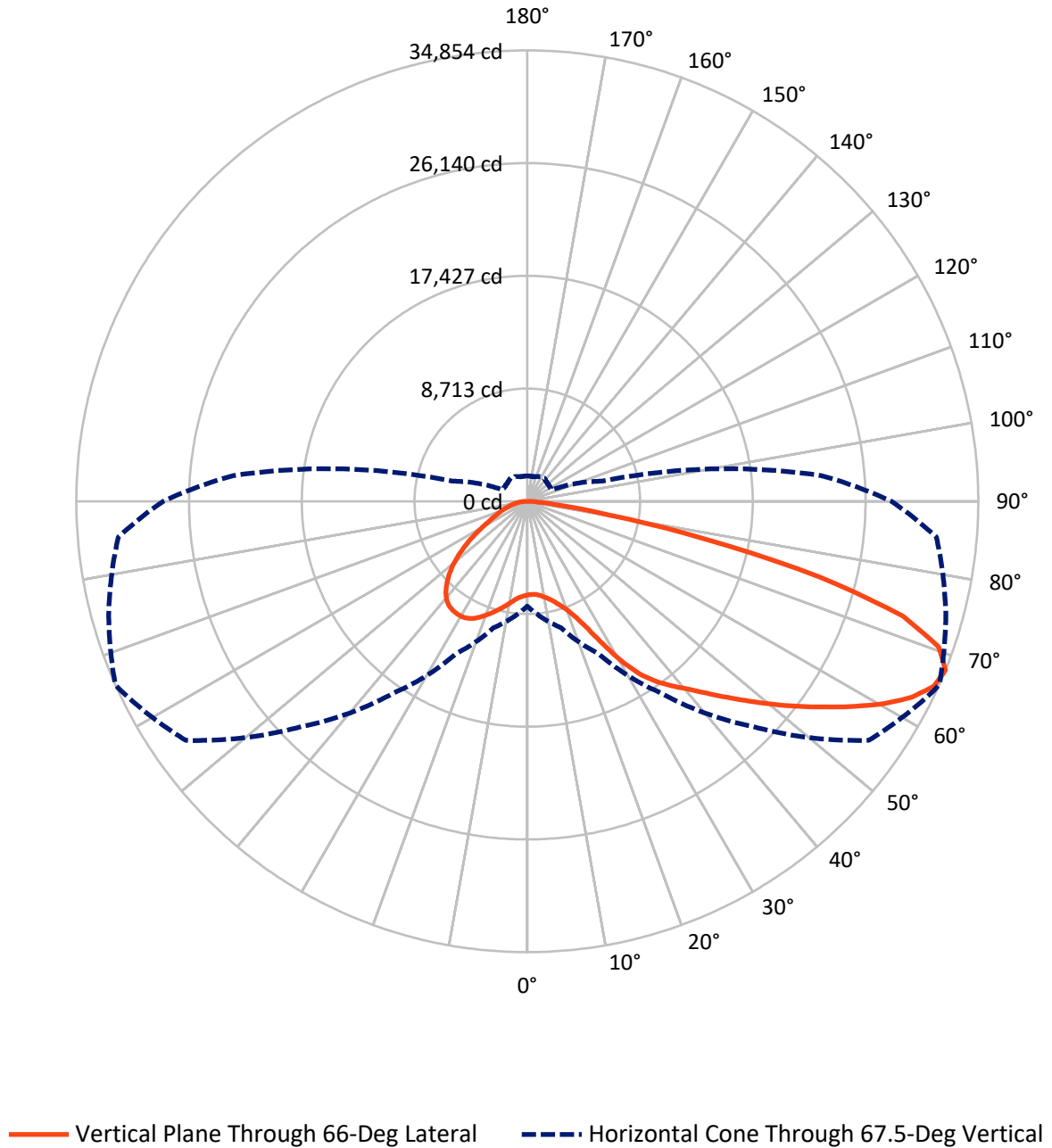
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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	16234.7	0.0	16234.7
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	49057.3	0.0	49057.3
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	65292.0	0.0	65292.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	718.0	1.1
10°-20°	2372.1	3.6
20°-30°	4572.2	7.0
30°-40°	8016.7	12.3
40°-50°	11918.2	18.3
50°-60°	15107.5	23.1
60°-70°	14782.3	22.6
70°-80°	7051.3	10.8
80°-90°	753.6	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°	65292.0	100.0
0°-180°	65292.0	100.0

**Coefficient of Utilization**



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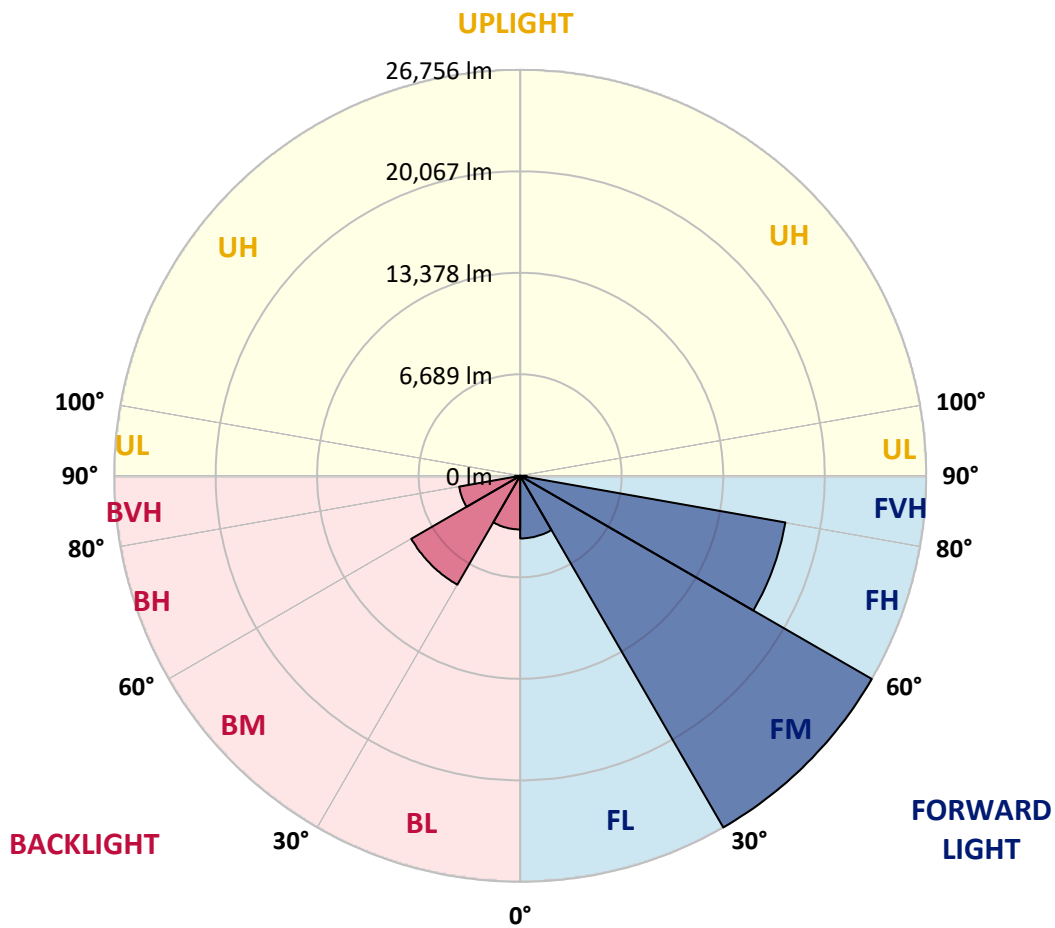
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4125.8	6.3			
FM (30°-60°)	26756.1	41.0			
FH (60°-80°)	17748.2	27.2			G5
FVH (80°-90°)	427.3	0.7			G3/500
BL (0°-30°)	3536.5	5.4	B4/5000		
BM (30°-60°)	8286.4	12.7	B4/8500		
BH (60°-80°)	4085.5	6.3	B4/5000		G4/5000
BVH (80°-90°)	326.3	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°	7241.7	7241.7	7241.7	7241.7	7241.7	7241.7	7241.7	7241.7	7241.7	7241.7
2.5°	7166.3	7207.4	7197.1	7180.0	7176.6	7183.4	7193.7	7204.0	7200.6	7217.7
5°	7145.7	7186.9	7183.4	7183.4	7197.1	7224.6	7241.7	7258.9	7241.7	7262.3
7.5°	7159.4	7190.3	7204.0	7217.7	7252.0	7303.5	7344.7	7382.4	7361.8	7385.8
10°	7334.4	7358.4	7372.1	7372.1	7396.1	7454.4	7495.6	7564.2	7547.1	7584.8
12.5°	7653.4	7677.4	7677.4	7663.7	7680.8	7718.6	7732.3	7807.8	7776.9	7838.6
15°	8044.5	8092.5	8054.8	8030.8	8037.6	8075.4	8071.9	8130.2	8099.4	8150.8
17.5°	8476.7	8538.5	8476.7	8473.3	8459.6	8500.7	8504.2	8555.6	8500.7	8538.5
20°	8987.9	9073.6	9022.2	9039.3	9008.4	9025.6	9042.7	9118.2	9032.5	9059.9
22.5°	9708.3	9811.2	9756.3	9821.5	9800.9	9787.2	9783.7	9917.5	9783.7	9794.0
25°	10758.0	10881.5	10785.4	10874.6	10874.6	10919.2	10970.7	11142.2	10919.2	10854.0
27.5°	12308.6	12432.1	12243.4	12298.3	12281.1	12390.9	12336.0	12761.4	12521.3	12414.9
30°	14174.7	14394.3	14037.5	14023.8	14006.7	14181.6	14260.5	14541.8	14298.2	14191.9
32.5°	16191.9	16421.7	15996.3	15872.8	15807.7	15914.0	15848.8	16075.2	15907.1	15742.5
35°	18325.6	18552.0	18147.2	17907.1	17646.4	17423.4	17190.1	17248.5	17090.7	16840.2
37.5°	20342.8	20757.8	20329.0	20071.7	19591.5	19155.8	18504.0	18233.0	18085.5	17855.7
40°	22397.6	22634.3	22308.4	22088.9	21567.4	20884.8	19841.9	19269.0	19070.0	18847.1
42.5°	23910.5	24136.9	23961.9	23811.0	23402.7	22610.3	21262.1	20545.2	20257.0	20006.6
45°	25111.1	25279.2	25169.4	25224.3	25049.4	24280.9	22733.8	21913.9	21615.5	21310.1
47.5°	25594.8	25773.2	25948.2	26274.1	26572.5	26006.5	24315.3	23395.9	23080.3	22768.1
50°	25539.9	25721.7	26229.5	26922.4	27848.6	27660.0	25982.5	24973.9	24682.3	24325.5
52.5°	25100.8	25306.7	25958.5	27111.1	28586.2	28898.4	27680.6	26603.4	26328.9	25903.6
55°	23948.2	24071.7	25049.4	26682.3	28761.2	29762.9	29344.3	28339.2	28064.8	27471.3
57.5°	21811.0	21989.4	23413.0	25526.2	28322.1	30349.5	30805.7	30164.2	29900.1	29045.9
60°	19022.0	19306.7	20936.2	23584.6	27203.7	30346.0	32133.3	31958.4	31738.8	30596.5
62.5°	15866.0	16195.3	17763.0	20840.2	25248.3	29485.0	32963.5	33460.9	33347.7	32027.0
65°	12185.1	12411.5	13972.3	17289.6	22205.5	27636.0	33059.5	34486.6	34507.2	33114.4
67.5°	8113.1	8764.9	10119.9	12974.1	18130.1	24613.7	32215.6	34654.7	34853.7	33488.4
70°	3958.8	4816.4	6144.0	8432.1	12974.1	19979.1	30009.8	33275.7	33718.2	32397.5
72.5°	1643.2	1921.1	2644.9	4161.2	7447.6	13481.8	25577.7	29536.4	30356.3	28706.3
75°	1108.0	1200.7	1512.8	2133.8	3392.7	6648.3	18445.7	22023.7	23344.4	21680.6
77.5°	854.2	912.5	1101.2	1492.3	2017.1	2514.5	9872.9	13272.5	13955.2	12919.2
80°	672.4	717.0	823.3	1087.5	1430.5	1344.7	3365.3	6013.6	6408.1	5375.6
82.5°	583.2	600.3	590.0	737.6	950.2	785.6	1104.6	2219.5	2449.4	1777.0
85°	421.9	470.0	490.6	456.3	504.3	397.9	452.8	785.6	864.5	771.9
87.5°	171.5	253.9	312.2	295.0	185.2	113.2	140.6	229.8	264.1	288.2
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°
7241.7	0°	7241.7	7241.7	7241.7	7241.7	7241.7	7241.7	7241.7	7241.7	7241.7	7241.7
7245.2	2.5°	7248.6	7272.6	7289.8	7310.4	7324.1	7344.7	7385.8	7409.8	7413.3	7430.4
7300.1	5°	7313.8	7348.1	7385.8	7440.7	7502.5	7553.9	7632.8	7687.7	7708.3	7725.4
7433.9	7.5°	7454.4	7502.5	7571.1	7667.1	7756.3	7824.9	7921.0	7986.2	8051.3	8075.4
7646.5	10°	7663.7	7732.3	7831.8	7962.1	8058.2	8147.4	8246.9	8301.8	8366.9	8394.4
7900.4	12.5°	7924.4	7996.5	8126.8	8308.6	8397.8	8459.6	8493.9	8480.1	8493.9	8517.9
8205.7	15°	8222.9	8301.8	8449.3	8644.8	8706.6	8651.7	8576.2	8507.6	8497.3	8504.2
8576.2	17.5°	8576.2	8634.5	8806.0	8970.7	8926.1	8699.7	8535.0	8425.3	8370.4	8353.2
9049.6	20°	9070.2	9070.2	9210.8	9313.8	9015.3	8631.1	8373.8	8195.4	8082.2	8034.2
9694.5	22.5°	9670.5	9615.6	9704.8	9632.8	8998.2	8439.0	8082.2	7773.5	7601.9	7533.3
10596.8	25°	10432.1	10366.9	10342.9	9896.9	8874.7	8133.7	7553.9	7180.0	7029.1	6991.3
11896.9	27.5°	11581.3	11416.6	11104.5	10041.0	8648.2	7653.4	6936.4	6590.0	6504.2	6507.6
13567.6	30°	13111.3	12782.0	12017.0	10065.0	8277.8	6974.2	6305.2	6058.2	6017.1	6034.2
14970.6	32.5°	14528.1	14215.9	12950.1	9955.3	7708.3	6308.7	5739.2	5574.5	5512.8	5533.4
16040.9	35°	15639.6	15553.8	13814.5	9800.9	7008.5	5684.3	5231.5	5090.8	4970.8	4943.3
17049.5	37.5°	16689.3	16655.0	14462.9	9584.8	6315.5	5241.8	4823.3	4638.0	4463.1	4367.0
18164.4	40°	17841.9	17807.6	14888.3	9252.0	5701.5	4857.6	4456.2	4212.6	3996.5	3821.6
19426.8	42.5°	19138.7	18936.3	15090.7	8775.2	5180.0	4531.7	4157.7	3828.4	3543.7	3382.5
20853.9	45°	20555.4	20099.2	15087.3	8168.0	4740.9	4233.2	3838.7	3372.2	3108.0	2957.1
22318.7	47.5°	22058.0	21210.7	14902.0	7495.6	4315.5	3903.9	3344.7	2987.9	2813.0	2720.4
23910.5	50°	23608.6	22250.1	14586.4	6723.7	3879.9	3530.0	3036.0	2792.4	2658.6	2572.9
25488.5	52.5°	25066.5	23193.5	14205.6	5849.0	3437.3	3166.3	2898.8	2710.1	2569.4	2473.4
27018.5	55°	26421.6	24006.5	13667.0	4953.6	3077.1	2922.8	2833.6	2675.8	2514.5	2401.3
28572.5	57.5°	27625.7	24534.8	12737.4	4113.1	2819.9	2754.7	2765.0	2617.5	2432.2	2336.2
30102.5	60°	28627.4	24922.4	11361.8	3334.4	2610.6	2590.0	2658.6	2507.7	2291.6	2181.8
31395.8	62.5°	29227.7	24915.6	9674.0	2730.7	2432.2	2439.1	2518.0	2370.5	2150.9	2048.0
32071.6	65°	29176.2	24305.0	7821.5	2336.2	2260.7	2267.5	2370.5	2219.5	2034.3	1972.5
31732.0	67.5°	28143.7	22816.1	5999.9	2078.9	2072.0	2102.9	2223.0	2116.6	1962.2	1955.4
29708.0	70°	25347.8	19725.3	4322.4	1873.0	1876.5	1921.1	2078.9	2051.4	1924.5	1938.2
24977.3	72.5°	20325.6	15039.2	2902.2	1656.9	1660.4	1732.4	1941.7	2000.0	1886.8	2068.6
17721.9	75°	13536.7	9378.9	1866.2	1427.1	1430.5	1523.1	1821.6	1900.5	1783.9	2061.7
9221.1	77.5°	6504.2	4216.1	1351.6	1200.7	1200.7	1286.4	1574.6	1701.5	1519.7	1602.0
2963.9	80°	2247.0	1584.9	1063.4	967.4	946.8	1005.1	1327.6	1475.1	1310.4	1207.5
967.4	82.5°	885.1	823.3	854.2	751.3	682.7	720.4	1032.6	1217.8	964.0	871.3
545.4	85°	507.7	535.2	603.8	497.4	394.5	442.5	758.1	874.8	727.3	641.5
178.4	87.5°	137.2	188.7	277.9	257.3	178.4	188.7	360.2	483.7	418.5	322.5
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°  
7241.7  
7427.0  
7722.0  
8078.8  
8408.1  
8524.7  
8528.2  
8377.2  
8023.9  
7523.0  
6998.2  
6517.9  
6092.5  
5560.8  
4963.9  
4370.4  
3838.7  
3392.7  
2950.2  
2699.8  
2542.0  
2432.2  
2356.7  
2274.4  
2133.8  
2017.1  
1969.1  
1965.7  
1934.8  
2096.0  
2078.9  
1468.2  
1132.1  
867.9  
655.2  
332.8  
0.0

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