

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: P944437

Luminaire Tested: **GALN-SB9B-850-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944437  
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-SB9B-850-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

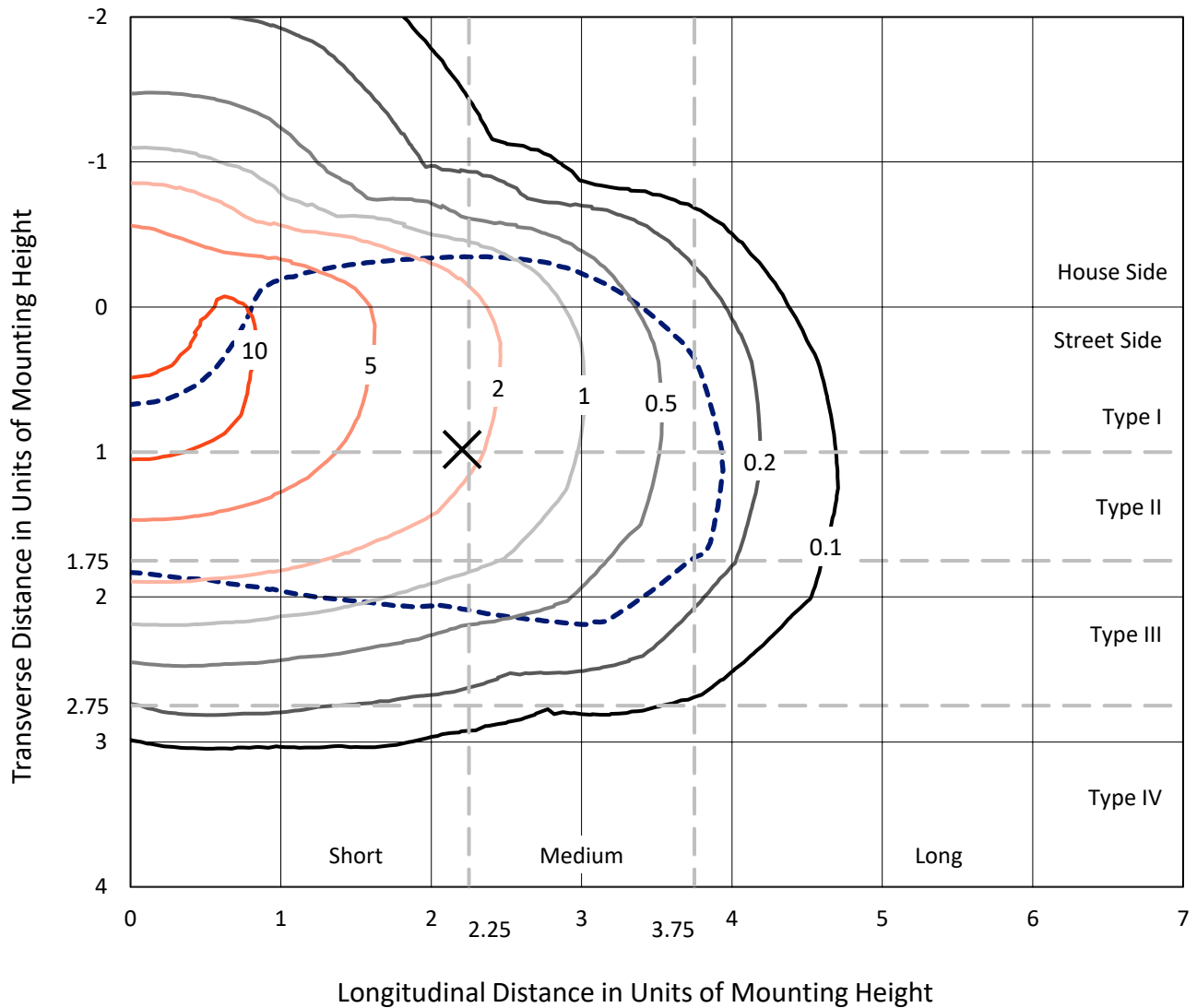
Lumens per Lamp: N/A  
Luminaire Lumens: 49093 lumens  
Efficiency: N/A  
Efficacy: 149.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

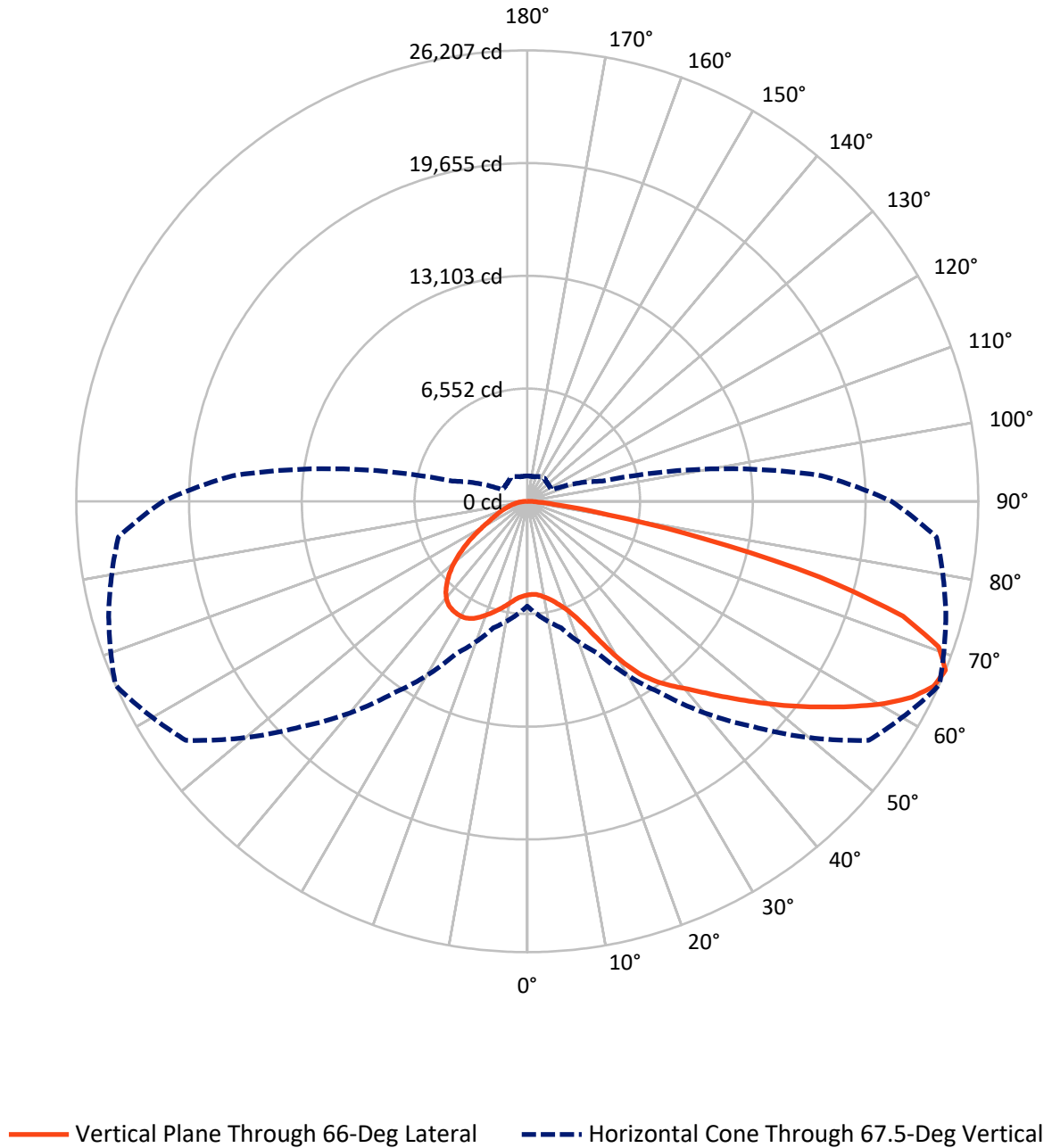
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	12206.8	0.0	12206.8
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	36886.2	0.0	36886.2
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	49093.0	0.0	49093.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	539.9	1.1
10°-20°	1783.6	3.6
20°-30°	3437.8	7.0
30°-40°	6027.8	12.3
40°-50°	8961.3	18.3
50°-60°	11359.3	23.1
60°-70°	11114.8	22.6
70°-80°	5301.9	10.8
80°-90°	566.6	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°	49093.0	100.0
0°-180°	49093.0	100.0

**Coefficient of Utilization**



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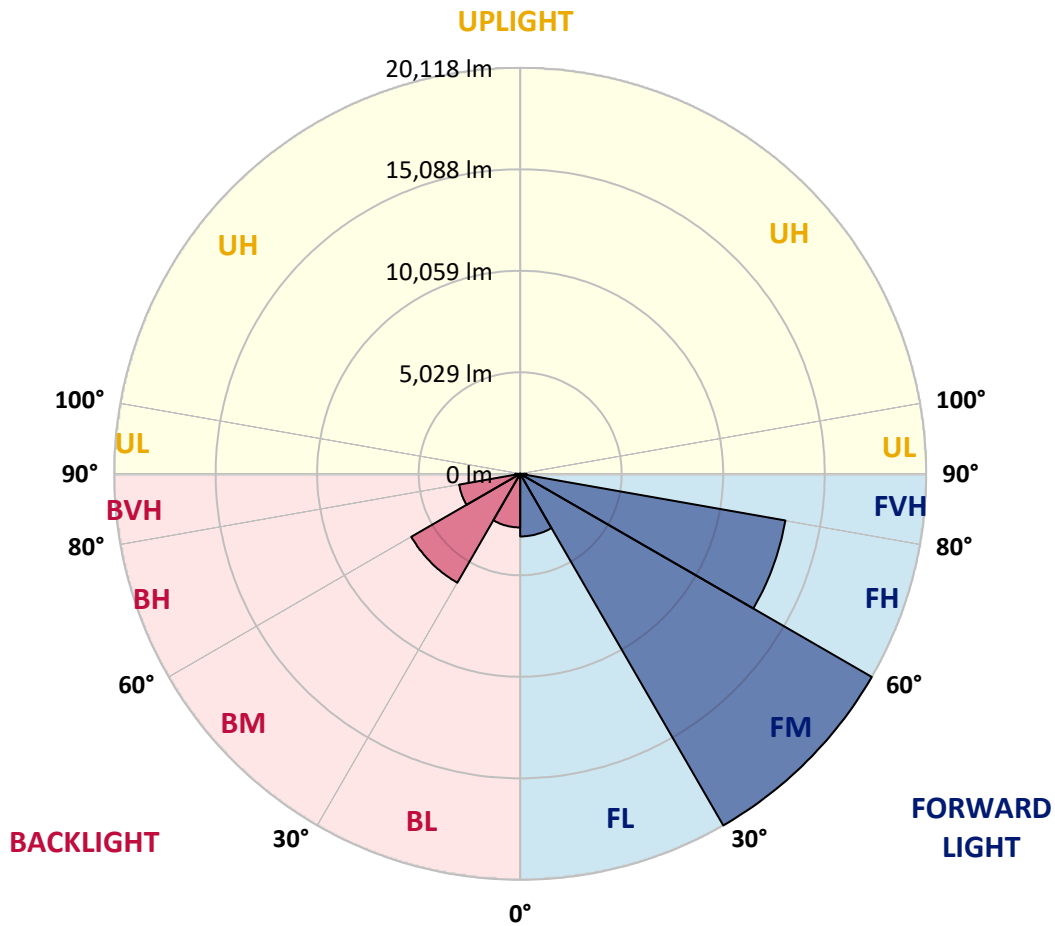
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3102.2	6.3			
FM (30°-60°)	20117.9	41.0			
FH (60°-80°)	13344.8	27.2			G5
FVH (80°-90°)	321.3	0.7			G3/500
BL (0°-30°)	2659.1	5.4	B4/5000		
BM (30°-60°)	6230.5	12.7	B4/8500		
BH (60°-80°)	3071.9	6.3	B4/5000		G4/5000
BVH (80°-90°)	245.4	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°	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1
2.5°	5388.3	5419.3	5411.5	5398.6	5396.1	5401.2	5409.0	5416.7	5414.1	5427.0
5°	5372.8	5403.8	5401.2	5401.2	5411.5	5432.2	5445.1	5458.0	5445.1	5460.5
7.5°	5383.2	5406.4	5416.7	5427.0	5452.8	5491.5	5522.4	5550.8	5535.3	5553.4
10°	5514.7	5532.8	5543.1	5543.1	5561.1	5605.0	5635.9	5687.5	5674.6	5703.0
12.5°	5754.6	5772.6	5772.6	5762.3	5775.2	5803.6	5813.9	5870.7	5847.4	5893.9
15°	6048.6	6084.7	6056.4	6038.3	6043.5	6071.9	6069.3	6113.1	6089.9	6128.6
17.5°	6373.6	6420.1	6373.6	6371.1	6360.7	6391.7	6394.3	6433.0	6391.7	6420.1
20°	6758.0	6822.4	6783.8	6796.7	6773.4	6786.3	6799.2	6856.0	6791.5	6812.1
22.5°	7299.6	7377.0	7335.7	7384.8	7369.3	7359.0	7356.4	7457.0	7356.4	7364.1
25°	8088.9	8181.8	8109.6	8176.6	8176.6	8210.2	8248.8	8377.8	8210.2	8161.1
27.5°	9254.8	9347.7	9205.8	9247.1	9234.2	9316.7	9275.4	9595.3	9414.7	9334.8
30°	10658.0	10823.1	10554.8	10544.5	10531.6	10663.1	10722.5	10934.0	10750.8	10670.9
32.5°	12174.7	12347.5	12027.6	11934.8	11885.8	11965.7	11916.7	12087.0	11960.6	11836.8
35°	13779.0	13949.3	13644.9	13464.3	13268.3	13100.7	12925.3	12969.1	12850.5	12662.2
37.5°	15295.7	15607.8	15285.4	15091.9	14730.8	14403.2	13913.2	13709.4	13598.5	13425.7
40°	16840.7	17018.7	16773.7	16608.6	16216.5	15703.2	14919.1	14488.4	14338.8	14171.1
42.5°	17978.2	18148.5	18016.9	17903.4	17596.5	17000.7	15987.0	15447.9	15231.2	15042.9
45°	18881.0	19007.4	18924.9	18966.2	18834.6	18256.8	17093.5	16477.1	16252.6	16023.1
47.5°	19244.7	19378.9	19510.4	19755.4	19979.8	19554.2	18282.6	17591.3	17354.0	17119.3
50°	19203.5	19340.2	19721.9	20242.9	20939.4	20797.5	19536.2	18777.9	18558.6	18290.4
52.5°	18873.3	19028.1	19518.1	20384.8	21493.9	21728.7	20813.0	20003.1	19796.7	19476.9
55°	18006.6	18099.5	18834.6	20062.4	21625.5	22378.7	22064.0	21308.2	21101.9	20655.6
57.5°	16399.7	16533.8	17604.2	19193.1	21295.3	22819.7	23162.8	22680.5	22481.8	21839.6
60°	14302.6	14516.7	15741.9	17733.2	20454.5	22817.2	24161.0	24029.5	23864.4	23005.5
62.5°	11929.6	12177.2	13356.0	15669.7	18984.2	22169.7	24785.2	25159.2	25074.1	24081.1
65°	9161.9	9332.2	10505.8	13000.1	16696.3	20779.5	24857.4	25930.5	25945.9	24898.7
67.5°	6100.2	6590.3	7609.2	9755.2	13632.0	18507.0	24222.9	26056.9	26206.5	25179.9
70°	2976.6	3621.4	4619.7	6340.1	9755.2	15022.3	22564.4	25019.9	25352.7	24359.6
72.5°	1235.5	1444.5	1988.7	3128.8	5599.8	10136.9	19231.8	22208.4	22824.9	21584.2
75°	833.1	902.8	1137.5	1604.4	2551.0	4998.8	13869.3	16559.6	17552.7	16301.7
77.5°	642.3	686.1	828.0	1122.0	1516.7	1890.7	7423.4	9979.6	10492.9	9713.9
80°	505.6	539.1	619.1	817.7	1075.6	1011.1	2530.4	4521.6	4818.3	4041.9
82.5°	438.5	451.4	443.7	554.6	714.5	590.7	830.6	1668.9	1841.7	1336.1
85°	317.3	353.4	368.9	343.1	379.2	299.2	340.5	590.7	650.0	580.4
87.5°	129.0	190.9	234.7	221.8	139.3	85.1	105.8	172.8	198.6	216.7
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°
5445.1	0°	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1	5445.1
5447.6	2.5°	5450.2	5468.3	5481.2	5496.7	5507.0	5522.4	5553.4	5571.5	5574.0	5586.9
5488.9	5°	5499.2	5525.0	5553.4	5594.7	5641.1	5679.8	5739.1	5780.4	5795.9	5808.8
5589.5	7.5°	5605.0	5641.1	5692.7	5764.9	5832.0	5883.6	5955.8	6004.8	6053.8	6071.9
5749.4	10°	5762.3	5813.9	5888.7	5986.7	6059.0	6126.0	6200.8	6242.1	6291.1	6311.7
5940.3	12.5°	5958.4	6012.5	6110.5	6247.2	6314.3	6360.7	6386.5	6376.2	6386.5	6404.6
6169.9	15°	6182.8	6242.1	6353.0	6500.0	6546.5	6505.2	6448.4	6396.9	6389.1	6394.3
6448.4	17.5°	6448.4	6492.3	6621.3	6745.1	6711.5	6541.3	6417.5	6334.9	6293.7	6280.8
6804.4	20°	6819.9	6819.9	6925.6	7003.0	6778.6	6489.7	6296.3	6162.1	6077.0	6040.9
7289.3	22.5°	7271.3	7230.0	7297.1	7242.9	6765.7	6345.3	6077.0	5844.9	5715.9	5664.3
7967.7	25°	7843.9	7794.9	7776.8	7441.5	6672.8	6115.7	5679.8	5398.6	5285.1	5256.8
8945.3	27.5°	8708.0	8584.2	8349.4	7549.8	6502.6	5754.6	5215.5	4955.0	4890.5	4893.1
10201.4	30°	9858.4	9610.8	9035.6	7567.9	6224.0	5243.9	4740.9	4555.2	4524.2	4537.1
11256.4	32.5°	10923.7	10688.9	9737.1	7485.3	5795.9	4743.5	4315.3	4191.5	4145.1	4160.5
12061.2	35°	11759.4	11694.9	10387.1	7369.3	5269.7	4274.0	3933.5	3827.8	3737.5	3716.9
12819.5	37.5°	12548.7	12522.9	10874.6	7206.8	4748.6	3941.3	3626.6	3487.3	3355.8	3283.5
13657.8	40°	13415.3	13389.5	11194.5	6956.6	4286.9	3652.4	3350.6	3167.5	3005.0	2873.4
14607.0	42.5°	14390.3	14238.2	11346.7	6598.0	3894.9	3407.4	3126.2	2878.6	2664.5	2543.3
15680.0	45°	15455.6	15112.6	11344.1	6141.5	3564.7	3182.9	2886.3	2535.5	2336.9	2223.4
16781.4	47.5°	16585.4	15948.3	11204.8	5635.9	3244.9	2935.3	2514.9	2246.6	2115.1	2045.4
17978.2	50°	17751.3	16729.8	10967.5	5055.6	2917.3	2654.2	2282.7	2099.6	1999.0	1934.5
19164.8	52.5°	18847.5	17439.2	10681.2	4397.8	2584.5	2380.8	2179.6	2037.7	1932.0	1859.7
20315.2	55°	19866.4	18050.5	10276.2	3724.6	2313.7	2197.6	2130.6	2011.9	1890.7	1805.6
21483.6	57.5°	20771.7	18447.7	9577.2	3092.7	2120.2	2071.2	2079.0	1968.1	1828.8	1756.6
22634.0	60°	21524.9	18739.2	8542.9	2507.2	1962.9	1947.4	1999.0	1885.5	1723.0	1640.5
23606.4	62.5°	21976.3	18734.0	7273.8	2053.2	1828.8	1833.9	1893.3	1782.3	1617.3	1539.9
24114.6	65°	21937.6	18274.9	5881.0	1756.6	1699.8	1705.0	1782.3	1668.9	1529.6	1483.1
23859.2	67.5°	21161.2	17155.4	4511.3	1563.1	1557.9	1581.2	1671.4	1591.5	1475.4	1470.2
22337.4	70°	19059.0	14831.4	3250.0	1408.3	1410.9	1444.5	1563.1	1542.5	1447.0	1457.3
18780.4	72.5°	15282.8	11308.0	2182.2	1245.8	1248.4	1302.6	1459.9	1503.8	1418.7	1555.4
13325.1	75°	10178.2	7052.0	1403.2	1073.0	1075.6	1145.2	1369.6	1429.0	1341.3	1550.2
6933.4	77.5°	4890.5	3170.1	1016.3	902.8	902.8	967.3	1183.9	1279.4	1142.7	1204.6
2228.6	80°	1689.5	1191.7	799.6	727.4	711.9	755.8	998.2	1109.1	985.3	907.9
727.4	82.5°	665.5	619.1	642.3	564.9	513.3	541.7	776.4	915.7	724.8	655.2
410.1	85°	381.7	402.4	454.0	374.0	296.6	332.7	570.0	657.7	546.8	482.3
134.1	87.5°	103.2	141.9	208.9	193.5	134.1	141.9	270.8	363.7	314.7	242.5
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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<u>180°</u>
5445.1
5584.3
5806.2
6074.4
6322.1
6409.7
6412.3
6298.8
6033.2
5656.6
5261.9
4900.8
4581.0
4181.2
3732.4
3286.1
2886.3
2551.0
2218.3
2030.0
1911.3
1828.8
1772.0
1710.1
1604.4
1516.7
1480.6
1478.0
1454.8
1576.0
1563.1
1104.0
851.2
652.6
492.7
250.2
0.0

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