

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: P956841

Luminaire Tested: **GALN-SB9B-840-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956841  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9B-840-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

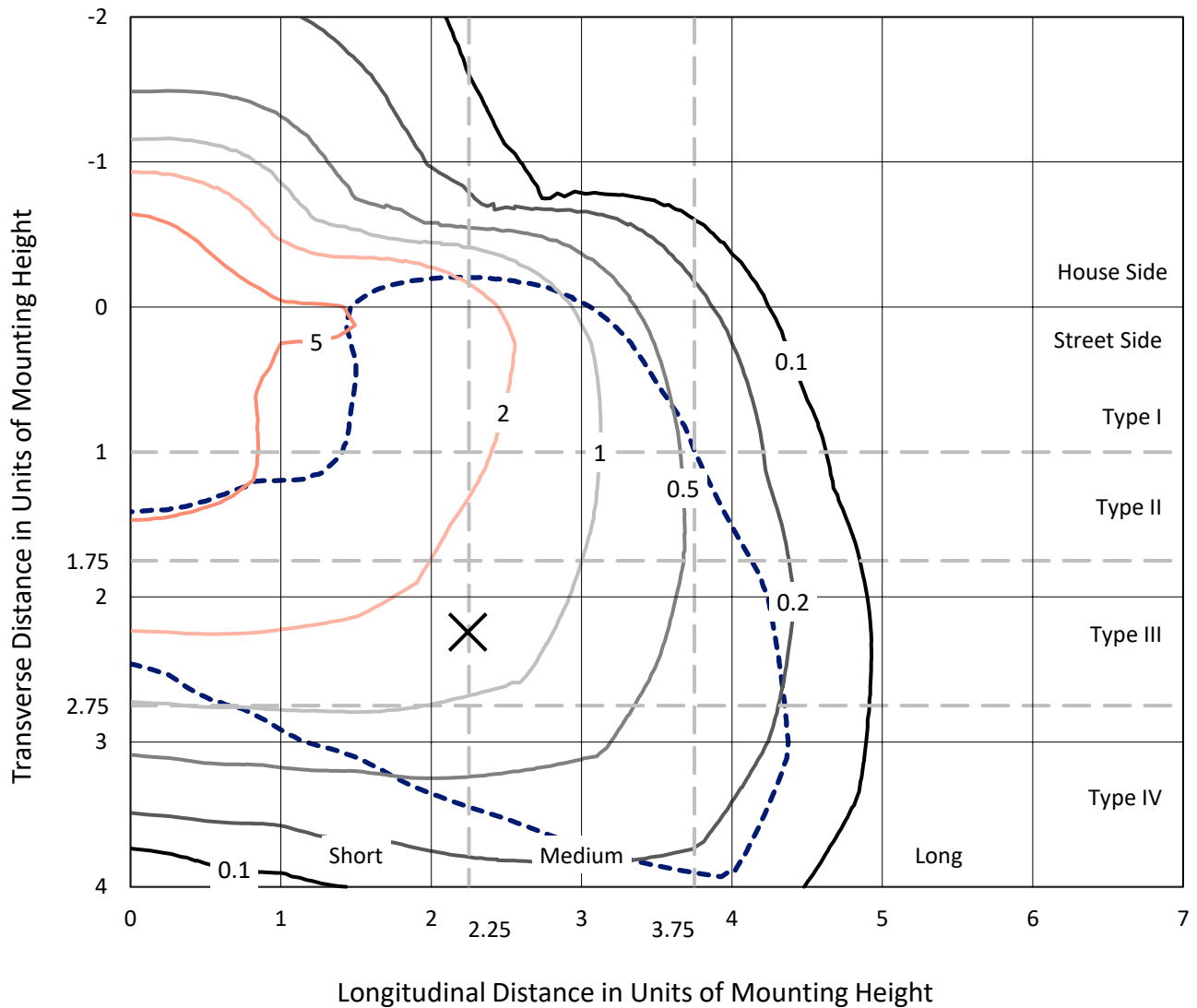
Lumens per Lamp: N/A  
Luminaire Lumens: 48964 lumens  
Efficiency: N/A  
Efficacy: 148.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

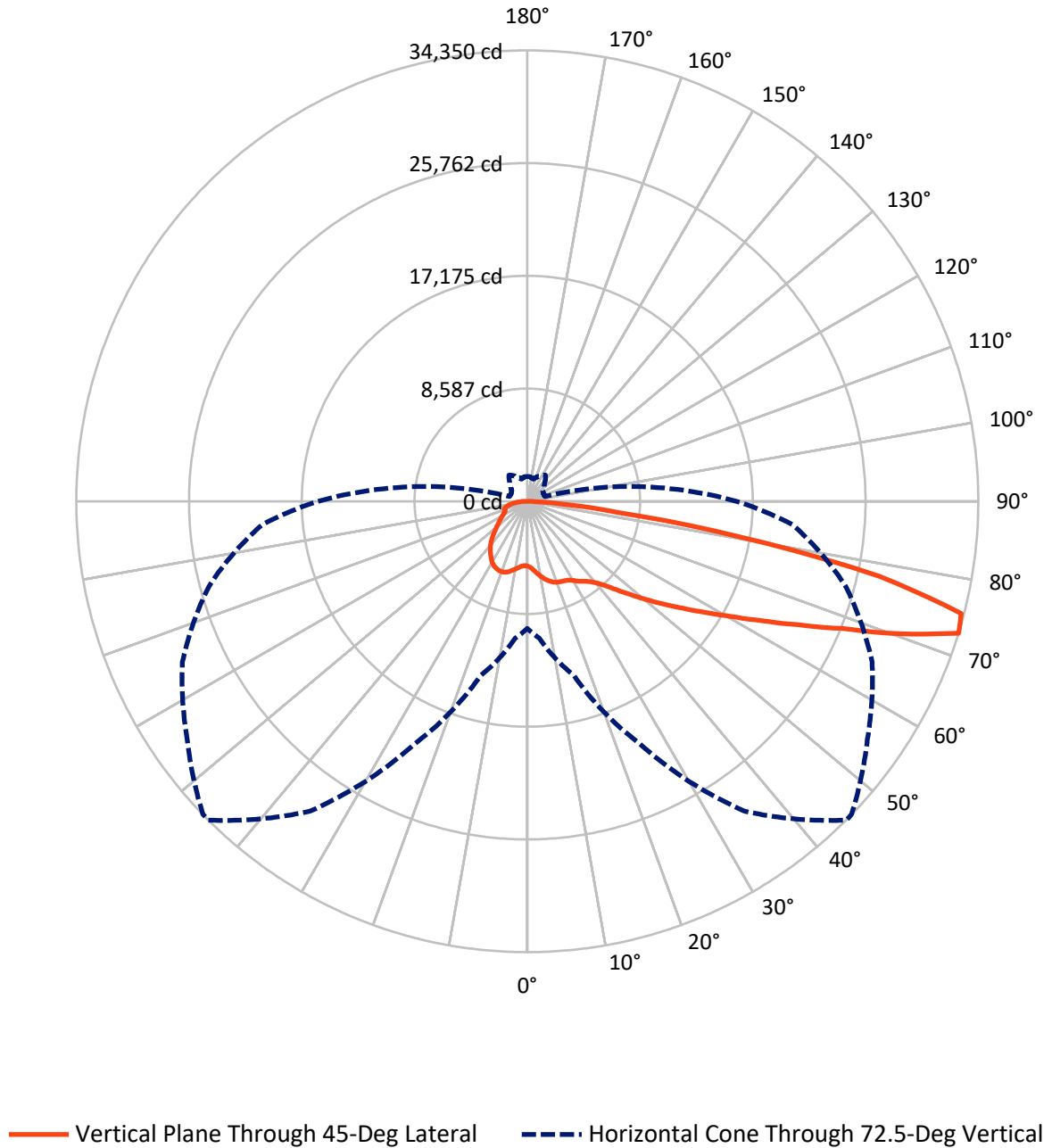
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type IV - 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	11069.1	0.0	11069.1
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	37894.9	0.0	37894.9
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	48964.0	0.0	48964.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.7	1.0
10°-20°	1676.2	3.4
20°-30°	2915.9	6.0
30°-40°	4180.1	8.5
40°-50°	5885.8	12.0
50°-60°	9015.3	18.4
60°-70°	13060.0	26.7
70°-80°	10429.2	21.3
80°-90°	1298.9	2.7
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°	48964.0	100.0
0°-180°	48964.0	100.0

**Coefficient of Utilization**



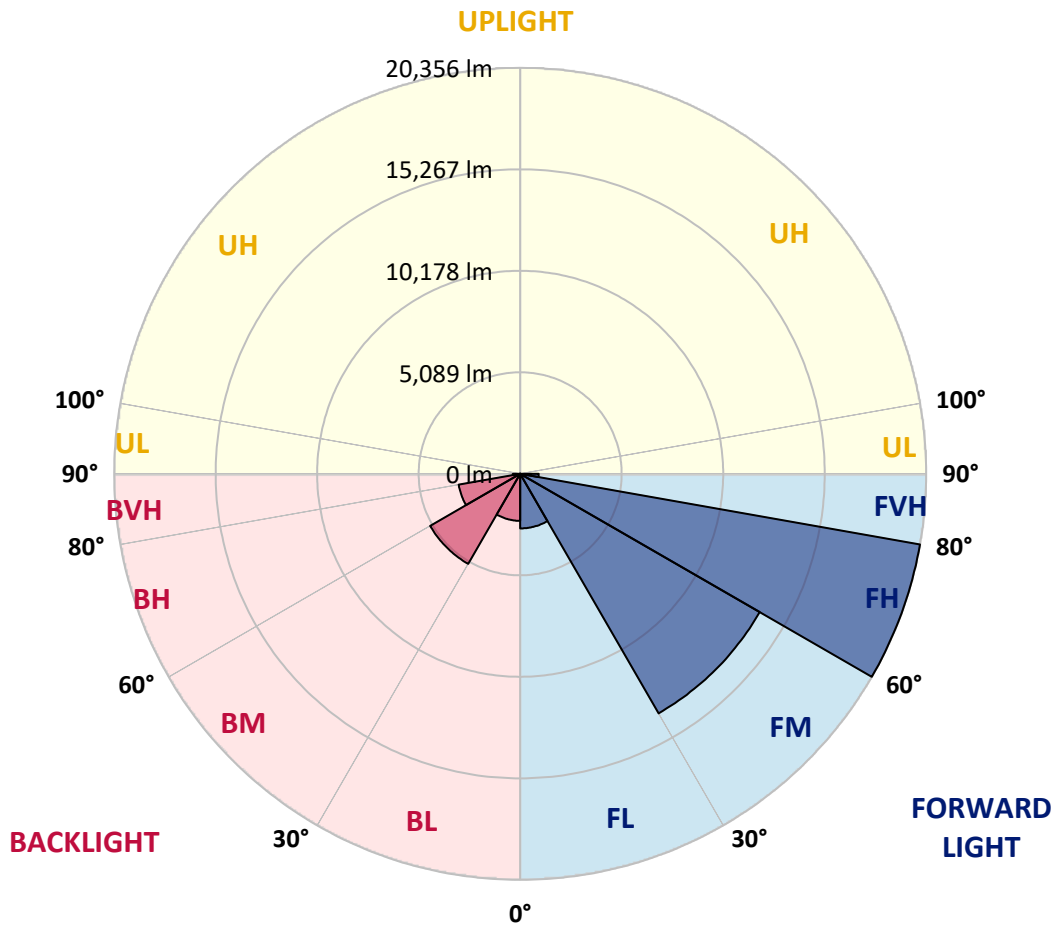
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2738.1	5.6			
FM (30°-60°)	13869.2	28.3			
FH (60°-80°)	20355.8	41.6			G5
FVH (80°-90°)	931.9	1.9			G5
BL (0°-30°)	2356.7	4.8	B3/2500		
BM (30°-60°)	5212.0	10.6	B4/8500		
BH (60°-80°)	3133.4	6.4	B4/5000		G4/5000
BVH (80°-90°)	367.1	0.7			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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4939.5	4939.5	4939.5	4939.5	4939.5	4939.5	4939.5	4939.5	4939.5	4939.5
2.5°	5133.0	5166.5	5135.5	5107.2	5094.3	5060.7	5058.2	5037.5	5024.6	4988.5
5°	5491.5	5535.4	5483.8	5427.0	5375.4	5292.9	5282.6	5223.2	5156.2	5078.8
7.5°	5896.5	5935.2	5875.8	5790.7	5700.4	5563.7	5561.1	5452.8	5347.1	5215.5
10°	6249.8	6301.4	6221.5	6105.4	5991.9	5837.1	5819.1	5695.3	5561.1	5390.9
12.5°	6561.9	6598.1	6520.7	6378.8	6247.3	6092.5	6069.3	5932.6	5783.0	5589.5
15°	6809.6	6856.0	6752.8	6600.6	6461.3	6309.2	6288.5	6164.7	6015.1	5811.3
17.5°	6972.1	7010.8	6905.0	6734.8	6600.6	6474.2	6458.8	6355.6	6224.0	6017.7
20°	7034.0	7075.2	6964.3	6791.5	6667.7	6569.7	6561.9	6487.1	6396.9	6208.6
22.5°	7095.9	7134.6	6990.1	6809.6	6701.2	6639.3	6636.7	6587.7	6551.6	6396.9
25°	7346.1	7356.4	7162.9	6902.4	6747.7	6693.5	6690.9	6688.3	6703.8	6582.6
27.5°	7562.7	7560.2	7395.1	7150.0	6910.2	6796.7	6794.1	6819.9	6868.9	6768.3
30°	7880.0	7851.6	7655.6	7400.2	7181.0	7005.6	6990.1	6966.9	7005.6	6925.6
32.5°	8553.2	8462.9	8145.7	7691.7	7405.4	7271.3	7250.6	7106.2	7121.7	7072.7
35°	9517.9	9399.3	8976.2	8243.7	7684.0	7493.1	7482.8	7299.6	7268.7	7224.8
37.5°	10665.7	10518.7	10026.1	9043.3	8163.7	7751.0	7735.6	7570.5	7444.1	7397.7
40°	11818.7	11633.0	11225.5	10018.3	8870.5	8181.8	8132.8	7882.6	7738.1	7660.8
42.5°	12938.2	12783.4	12435.2	11112.0	9742.3	8811.2	8702.8	8274.7	8166.3	8094.1
45°	13928.7	13789.4	13534.0	12280.4	10763.8	9667.5	9561.8	8862.8	8829.2	8829.2
47.5°	14733.4	14702.5	14431.6	13472.1	11968.3	10642.5	10459.4	9680.4	9770.7	9910.0
50°	15625.9	15540.8	15251.9	14645.7	13384.4	11759.4	11609.8	10683.8	11021.7	11403.4
52.5°	16446.1	16492.6	16170.1	15868.4	14983.6	13005.2	12742.1	11867.7	12597.7	13229.6
55°	17289.6	17292.2	17201.9	17160.6	16660.2	14382.6	14093.7	13291.6	14452.3	15236.4
57.5°	18081.5	18086.6	18220.7	18584.4	18605.1	15971.5	15643.9	15040.4	16513.2	17312.8
60°	18788.2	18824.3	19190.6	20041.8	20315.2	17792.6	17483.0	17106.5	18643.8	19448.5
62.5°	19025.5	19157.1	19972.1	21181.9	22004.7	20026.3	19721.9	19497.5	20882.7	21630.7
65°	18623.1	18924.9	20500.9	22123.4	23743.2	22680.5	22378.7	22133.7	23209.3	23913.4
67.5°	17635.2	18024.7	20470.0	23111.3	25853.1	25873.8	25592.6	25017.4	25703.5	25974.4
70°	15032.6	15615.6	18667.0	23480.1	28275.2	30240.7	29969.8	28489.3	28192.6	26882.3
72.5°	9685.6	10469.7	13745.5	20444.2	28814.3	34349.6	34334.1	31623.2	28979.3	25118.0
75°	3533.8	4013.5	6386.5	12832.4	24186.9	34140.7	34241.3	31086.7	26454.1	19402.1
77.5°	1287.1	1408.3	2084.1	4931.8	14875.3	27393.0	27602.0	24852.3	18829.5	9737.2
80°	675.8	742.9	1067.9	1913.9	6373.7	16268.2	16595.7	14769.5	8849.9	2932.8
82.5°	374.0	405.0	598.4	1039.5	2870.9	6956.6	7152.6	5834.6	3113.3	1243.3
85°	201.2	214.1	281.2	567.5	1403.2	2411.7	2465.9	1743.7	1240.7	730.0
87.5°	59.3	72.2	92.9	180.6	549.4	541.7	554.6	345.6	490.1	368.9
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°
4939.5	0°	4939.5	4939.5	4939.5	4939.5	4939.5	4939.5	4939.5	4939.5	4939.5	4939.5
4978.2	2.5°	4962.7	4955.0	4926.6	4913.7	4898.2	4895.7	4908.6	4911.1	4913.7	4916.3
5035.0	5°	5009.2	4983.4	4957.6	4942.1	4947.3	4949.8	4975.6	4993.7	5006.6	5016.9
5140.7	7.5°	5099.4	5078.8	5035.0	5032.4	5040.1	5063.3	5096.9	5138.1	5161.3	5179.4
5277.4	10°	5233.6	5194.9	5143.3	5151.0	5166.5	5200.0	5269.7	5303.2	5341.9	5375.4
5445.1	12.5°	5370.3	5336.7	5277.4	5282.6	5308.4	5367.7	5434.8	5476.0	5501.8	5527.6
5625.6	15°	5548.2	5488.9	5424.4	5424.4	5470.9	5535.4	5566.3	5599.8	5615.3	5643.7
5819.1	17.5°	5731.4	5654.0	5568.9	5563.7	5620.5	5651.4	5669.5	5674.6	5679.8	5710.7
6007.4	20°	5914.5	5829.4	5708.2	5697.9	5710.7	5705.6	5703.0	5697.9	5705.6	5744.3
6200.8	22.5°	6095.1	5997.1	5829.4	5783.0	5746.9	5697.9	5695.3	5692.7	5697.9	5736.5
6409.8	25°	6306.6	6187.9	5963.5	5824.2	5703.0	5635.9	5643.7	5646.3	5651.4	5682.4
6626.4	27.5°	6536.2	6404.6	6087.3	5811.3	5592.1	5545.7	5532.8	5540.5	5558.6	5607.6
6843.1	30°	6765.7	6611.0	6200.8	5759.8	5452.8	5388.3	5347.1	5365.1	5421.9	5470.9
7031.4	32.5°	6974.6	6819.9	6291.1	5646.3	5274.8	5174.2	5120.1	5143.3	5200.0	5218.1
7240.3	35°	7219.7	7044.3	6329.8	5465.7	5081.4	4926.6	4854.4	4820.9	4849.2	4831.2
7485.4	37.5°	7493.1	7310.0	6324.6	5228.4	4854.4	4676.4	4575.8	4449.4	4390.1	4328.2
7846.5	40°	7898.1	7635.0	6262.7	4942.1	4573.2	4410.7	4230.2	4016.1	3882.0	3760.7
8429.4	42.5°	8450.1	8086.4	6149.2	4627.4	4256.0	4103.8	3858.8	3608.6	3397.0	3195.9
9314.1	45°	9272.9	8677.0	6007.4	4292.1	3912.9	3763.3	3497.6	3216.5	2976.6	2718.7
10570.3	47.5°	10459.4	9471.5	5873.3	3910.3	3551.8	3415.1	3175.2	2914.7	2631.0	2380.8
12386.2	50°	12089.6	10611.6	5749.4	3538.9	3195.9	3092.7	2901.8	2636.1	2349.8	2148.6
14514.2	52.5°	14163.4	12161.8	5697.9	3180.4	2863.1	2824.4	2672.2	2424.6	2153.8	1983.5
16995.5	55°	16544.1	14016.4	5697.9	2837.3	2571.6	2584.5	2478.8	2249.2	2014.5	1862.3
19554.3	57.5°	18973.9	15894.1	5594.7	2520.1	2324.0	2378.2	2311.1	2109.9	1898.4	1741.1
22244.6	60°	21212.8	17467.6	5176.8	2231.2	2104.8	2189.9	2146.0	1973.2	1715.3	1583.7
24493.8	62.5°	22933.3	18354.9	4372.1	2001.6	1924.2	2022.2	1999.0	1792.7	1681.8	1627.6
26340.6	65°	23794.8	18210.4	3342.9	1797.8	1772.0	1924.2	1875.2	1867.5	1779.8	1717.9
26941.6	67.5°	23266.0	16967.2	2424.6	1648.2	1684.3	1833.9	2022.2	2053.2	1890.7	1769.5
25249.6	70°	20947.2	14717.9	1805.6	1506.4	1573.4	1836.5	2306.0	2148.6	1854.6	1712.7
20250.7	72.5°	15935.4	10975.3	1400.6	1356.8	1429.0	1849.4	2432.4	2104.8	1751.4	1893.3
12615.8	75°	9113.0	6025.4	1124.6	1173.6	1248.4	1728.2	2367.9	1991.3	1671.4	1738.5
4998.8	77.5°	3474.4	2316.3	928.6	993.1	1003.4	1508.9	2264.7	1983.5	1591.5	1552.8
1498.6	80°	1204.6	905.4	768.7	789.3	776.4	1341.3	2171.8	1725.6	1302.6	1165.9
619.1	82.5°	492.7	451.4	608.7	582.9	552.0	1042.1	1754.0	1410.9	1065.3	941.5
299.2	85°	214.1	286.3	402.4	353.4	319.8	722.2	1405.8	1194.3	900.2	776.4
98.0	87.5°	43.8	108.3	170.2	159.9	165.1	482.3	998.2	848.6	637.1	477.2
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°  
4939.5  
4926.6  
5022.1  
5184.6  
5367.7  
5537.9  
5654.0  
5721.1  
5759.8  
5762.3  
5723.6  
5656.6  
5525.0  
5282.6  
4887.9  
4366.9  
3768.5  
3177.8  
2687.7  
2352.4  
2135.7  
1970.6  
1846.8  
1715.3  
1563.1  
1609.5  
1697.2  
1748.8  
1689.5  
*1877.8*  
1738.5  
1416.1  
1127.2  
931.2  
773.8  
374.0  
0.0

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