

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: P956820

Luminaire Tested: **GALN-SB9B-835-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956820  
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-835-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

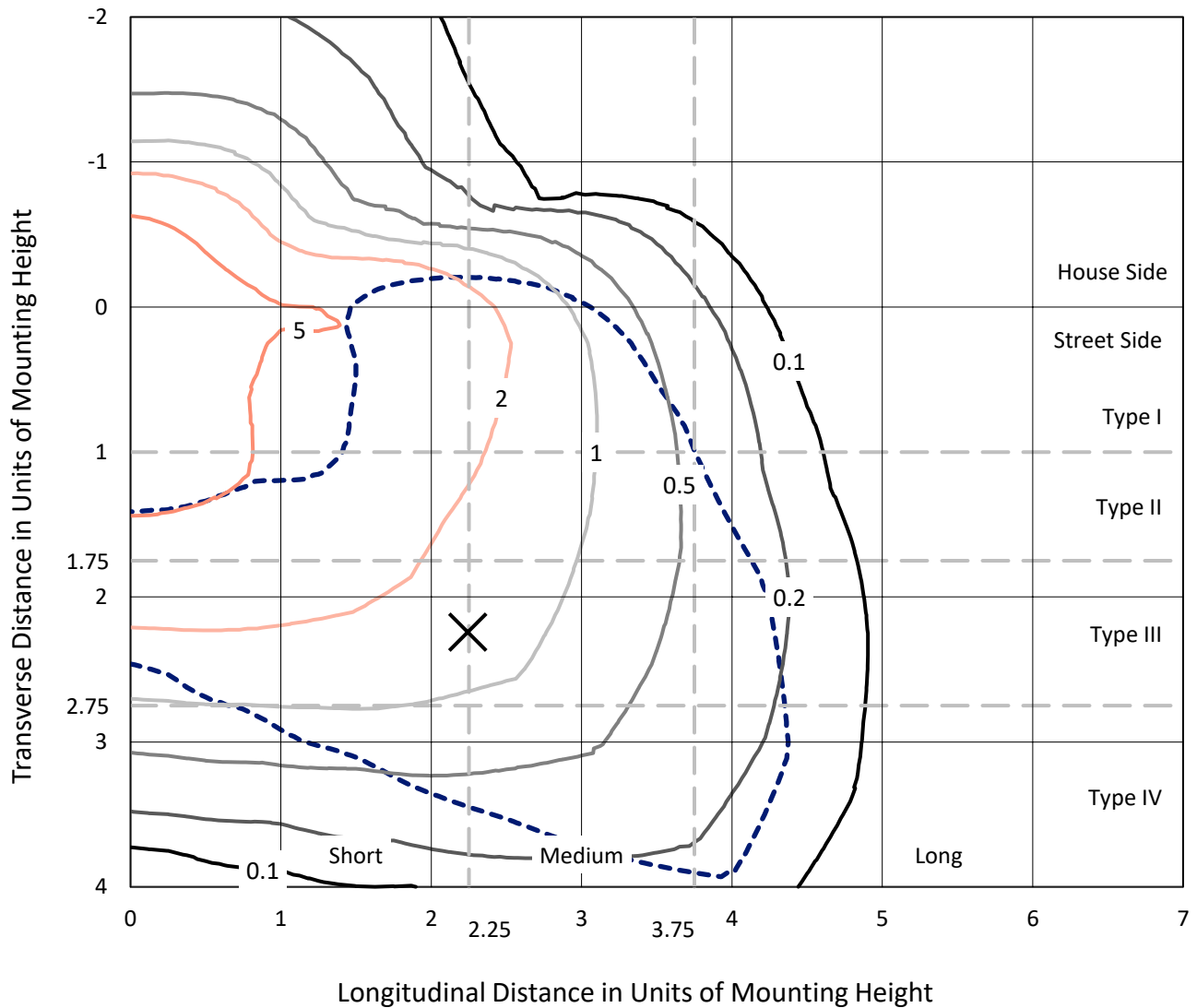
Lumens per Lamp: N/A  
Luminaire Lumens: 47480 lumens  
Efficiency: N/A  
Efficacy: 144.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

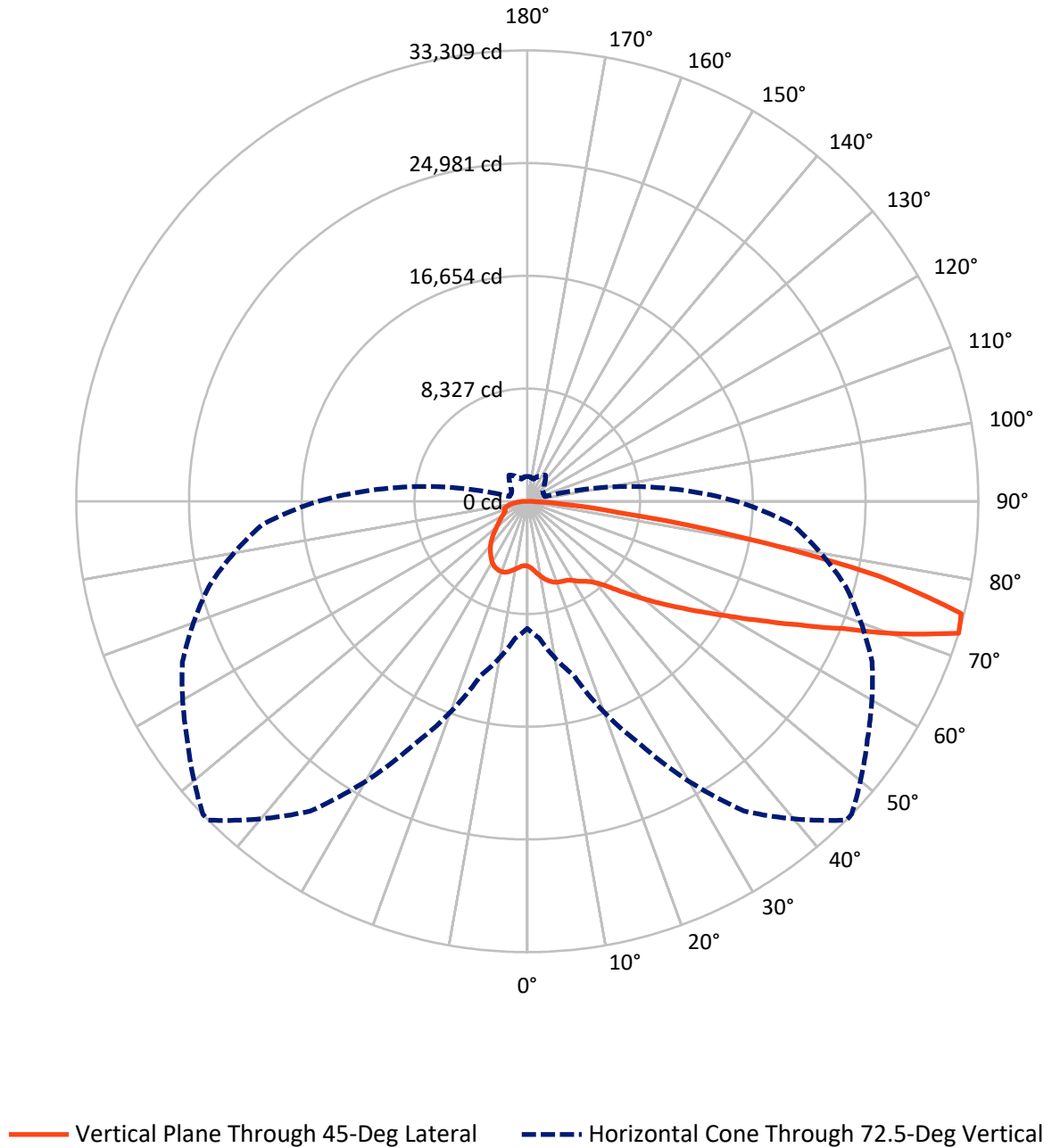
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	10733.6	0.0	10733.6
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	36746.4	0.0	36746.4
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	47480.0	0.0	47480.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.5	1.0
10°-20°	1625.4	3.4
20°-30°	2827.5	6.0
30°-40°	4053.4	8.5
40°-50°	5707.4	12.0
50°-60°	8742.0	18.4
60°-70°	12664.1	26.7
70°-80°	10113.1	21.3
80°-90°	1259.5	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°	47480.0	100.0
0°-180°	47480.0	100.0

**Coefficient of Utilization**



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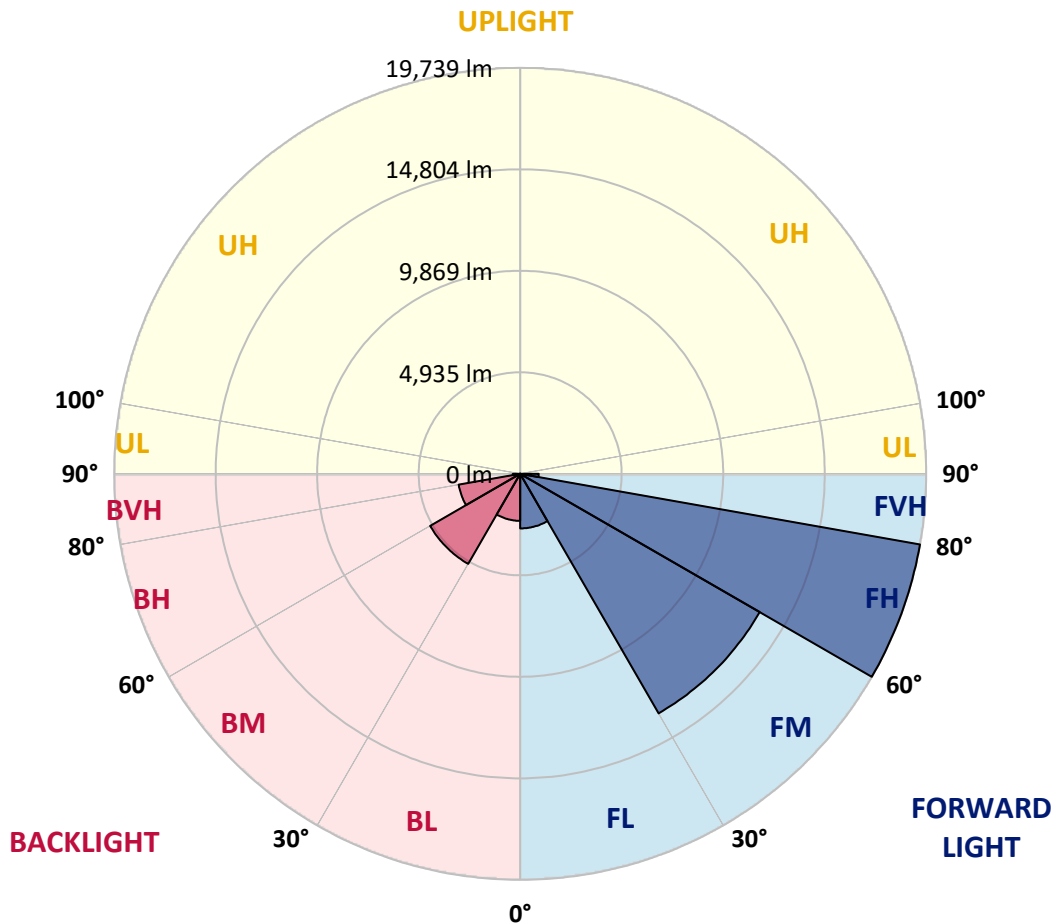
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2655.2	5.6			
FM (30°-60°)	13448.8	28.3			
FH (60°-80°)	19738.8	41.6			G5
FVH (80°-90°)	903.6	1.9			G5
BL (0°-30°)	2285.3	4.8	B3/2500		
BM (30°-60°)	5054.0	10.6	B4/8500		
BH (60°-80°)	3038.4	6.4	B4/5000		G4/5000
BVH (80°-90°)	355.9	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°	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8
2.5°	4977.4	5009.9	4979.9	4952.4	4939.9	4907.4	4904.9	4884.9	4872.3	4837.3
5°	5325.1	5367.6	5317.6	5262.5	5212.5	5132.5	5122.5	5064.9	4999.9	4924.9
7.5°	5717.8	5755.3	5697.7	5615.2	5527.7	5395.1	5392.6	5287.5	5185.0	5057.4
10°	6060.4	6110.4	6032.9	5920.4	5810.3	5660.2	5642.7	5522.7	5392.6	5227.5
12.5°	6363.1	6398.1	6323.0	6185.5	6057.9	5907.8	5885.3	5752.8	5607.7	5420.1
15°	6603.2	6648.2	6548.2	6400.6	6265.5	6117.9	6097.9	5977.9	5832.8	5635.2
17.5°	6760.8	6798.3	6695.7	6530.6	6400.6	6278.0	6263.0	6163.0	6035.4	5835.3
20°	6820.8	6860.8	6753.3	6585.7	6465.6	6370.6	6363.1	6290.5	6203.0	6020.4
22.5°	6880.8	6918.3	6778.3	6603.2	6498.1	6438.1	6435.6	6388.1	6353.1	6203.0
25°	7123.4	7133.4	6945.8	6693.2	6543.2	6490.6	6488.1	6485.6	6500.6	6383.1
27.5°	7333.5	7331.0	7171.0	6933.3	6700.7	6590.7	6588.2	6613.2	6660.7	6563.2
30°	7641.2	7613.7	7423.6	7176.0	6963.4	6793.3	6778.3	6755.8	6793.3	6715.7
32.5°	8294.0	8206.5	7898.8	7458.6	7181.0	7050.9	7030.9	6890.8	6905.8	6858.3
35°	9229.4	9114.4	8704.2	7993.9	7451.1	7266.0	7256.0	7078.4	7048.4	7005.9
37.5°	10342.5	10199.9	9722.2	8769.2	7916.3	7516.1	7501.1	7341.0	7218.5	7173.5
40°	11460.5	11280.4	10885.2	9714.7	8601.6	7933.8	7886.3	7643.7	7503.6	7428.6
42.5°	12546.0	12396.0	12058.3	10775.2	9447.1	8544.1	8439.1	8023.9	7918.8	7848.8
45°	13506.5	13371.4	13123.8	11908.2	10437.5	9374.5	9272.0	8594.1	8561.6	8561.6
47.5°	14286.9	14256.9	13994.2	13063.8	11605.6	10320.0	10142.4	9387.0	9474.6	9609.6
50°	15152.3	15069.8	14789.6	14201.8	12978.8	11403.0	11257.9	10360.0	10687.6	11057.8
52.5°	15947.7	15992.7	15680.1	15387.4	14529.5	12611.1	12356.0	11508.0	12215.9	12828.7
55°	16765.6	16768.1	16680.5	16640.5	16155.3	13946.7	13666.6	12888.7	14014.3	14774.6
57.5°	17533.4	17538.5	17668.5	18021.2	18041.2	15487.5	15169.8	14584.5	16012.7	16788.1
60°	18218.8	18253.8	18609.0	19434.4	19699.5	17253.3	16953.2	16588.0	18078.7	18859.1
62.5°	18448.9	18576.5	19366.8	20539.9	21337.8	19419.4	19124.2	18906.6	20249.8	20975.1
65°	18058.7	18351.3	19879.6	21452.8	23023.6	21993.1	21700.5	21462.8	22505.8	23188.7
67.5°	17100.7	17478.4	19849.6	22410.8	25069.6	25089.6	24817.0	24259.2	24924.5	25187.1
70°	14577.0	15142.3	18101.2	22768.5	27418.2	29324.1	29061.5	27625.8	27338.2	26067.6
72.5°	9392.0	10152.4	13328.9	19824.6	27941.0	33308.5	33293.5	30664.8	28101.0	24356.7
75°	3426.7	3891.9	6193.0	12443.5	23453.8	33106.0	33203.5	30144.5	25652.4	18814.1
77.5°	1248.1	1365.7	2021.0	4782.3	14424.5	26562.8	26765.4	24099.1	18258.8	9442.0
80°	655.3	720.3	1035.5	1855.9	6180.5	15775.1	16092.8	14321.9	8581.6	2843.9
82.5°	362.7	392.7	580.3	1008.0	2783.8	6745.8	6935.8	5657.7	3019.0	1205.6
85°	195.1	207.6	272.6	550.3	1360.7	2338.6	2391.2	1690.8	1203.1	707.8
87.5°	57.5	70.0	90.0	175.1	532.8	525.3	537.8	335.2	475.2	357.7
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°
4789.8	0°	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8
4827.3	2.5°	4812.3	4804.8	4777.3	4764.8	4749.8	4747.3	4759.8	4762.3	4764.8	4767.3
4882.4	5°	4857.3	4832.3	4807.3	4792.3	4797.3	4799.8	4824.8	4842.3	4854.8	4864.8
4984.9	7.5°	4944.9	4924.9	4882.4	4879.9	4887.4	4909.9	4942.4	4982.4	5004.9	5022.4
5117.5	10°	5074.9	5037.4	4987.4	4994.9	5009.9	5042.4	5110.0	5142.5	5180.0	5212.5
5280.0	12.5°	5207.5	5175.0	5117.5	5122.5	5147.5	5205.0	5270.0	5310.1	5335.1	5360.1
5455.1	15°	5380.1	5322.6	5260.0	5260.0	5305.1	5367.6	5397.6	5430.1	5445.1	5472.6
5642.7	17.5°	5557.7	5482.6	5400.1	5395.1	5450.1	5480.1	5497.6	5502.7	5507.7	5537.7
5825.3	20°	5735.3	5652.7	5535.2	5525.2	5537.7	5532.7	5530.2	5525.2	5532.7	5570.2
6012.9	22.5°	5910.3	5815.3	5652.7	5607.7	5572.7	5525.2	5522.7	5520.2	5525.2	5562.7
6215.5	25°	6115.4	6000.4	5782.8	5647.7	5530.2	5465.1	5472.6	5475.1	5480.1	5510.2
6425.6	27.5°	6338.1	6210.5	5902.8	5635.2	5422.6	5377.6	5365.1	5372.6	5390.1	5437.6
6635.7	30°	6560.7	6410.6	6012.9	5585.2	5287.5	5225.0	5185.0	5202.5	5257.5	5305.1
6818.3	32.5°	6763.3	6613.2	6100.4	5475.1	5115.0	5017.4	4964.9	4987.4	5042.4	5059.9
7020.9	35°	7000.9	6830.8	6138.0	5300.1	4927.4	4777.3	4707.3	4674.8	4702.3	4684.8
7258.5	37.5°	7266.0	7088.4	6133.0	5069.9	4707.3	4534.7	4437.1	4314.6	4257.1	4197.0
7608.7	40°	7658.7	7403.6	6072.9	4792.3	4434.6	4277.1	4102.0	3894.4	3764.3	3646.8
8173.9	42.5°	8193.9	7841.3	5962.9	4487.2	4127.0	3979.4	3741.8	3499.2	3294.1	3099.0
9031.9	45°	8991.8	8414.1	5825.3	4162.0	3794.3	3649.3	3391.6	3119.0	2886.4	2636.3
10249.9	47.5°	10142.4	9184.4	5695.2	3791.8	3444.2	3311.6	3079.0	2826.4	2551.2	2308.6
12010.8	50°	11723.1	10290.0	5575.2	3431.7	3099.0	2998.9	2813.9	2556.2	2278.6	2083.5
14074.3	52.5°	13734.1	11793.2	5525.2	3084.0	2776.3	2738.8	2591.2	2351.1	2088.5	1923.4
16480.4	55°	16042.7	13591.5	5525.2	2751.3	2493.7	2506.2	2403.7	2181.1	1953.4	1805.9
18961.6	57.5°	18398.9	15412.4	5425.1	2443.7	2253.6	2306.1	2241.1	2046.0	1840.9	1688.3
21570.4	60°	20569.9	16938.2	5019.9	2163.5	2041.0	2123.5	2081.0	1913.4	1663.3	1535.7
23751.4	62.5°	22238.2	17798.6	4239.5	1940.9	1865.9	1960.9	1938.4	1738.3	1630.8	1578.3
25542.3	65°	23073.6	17658.5	3241.6	1743.3	1718.3	1865.9	1818.4	1810.9	1725.8	1665.8
26125.1	67.5°	22560.9	16452.9	2351.1	1598.3	1633.3	1778.4	1960.9	1991.0	1833.4	1715.8
24484.3	70°	20312.3	14271.9	1750.8	1460.7	1525.7	1780.9	2236.1	2083.5	1798.4	1660.8
19637.0	72.5°	15452.4	10642.6	1358.2	1315.6	1385.7	1793.4	2358.6	2041.0	1698.3	1835.9
12233.4	75°	8836.8	5842.8	1090.5	1138.0	1210.6	1675.8	2296.1	1930.9	1620.8	1685.8
4847.3	77.5°	3369.1	2246.1	900.4	963.0	973.0	1463.2	2196.1	1923.4	1543.2	1505.7
1453.2	80°	1168.1	877.9	745.4	765.4	752.9	1300.6	2106.0	1673.3	1263.1	1130.5
600.3	82.5°	477.7	437.7	590.3	565.3	535.3	1010.5	1700.8	1368.2	1033.0	912.9
290.1	85°	207.6	277.6	390.2	342.7	310.1	700.3	1363.2	1158.1	872.9	752.9
95.0	87.5°	42.5	105.1	165.1	155.1	160.1	467.7	968.0	822.9	617.8	462.7
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°  
4789.8  
4777.3  
4869.8  
5027.4  
5205.0  
5370.1  
5482.6  
5547.7  
5585.2  
5587.7  
5550.2  
5485.1  
5357.6  
5122.5  
4739.8  
4234.5  
3654.3  
3081.5  
2606.3  
2281.1  
2071.0  
1910.9  
1790.9  
1663.3  
1515.7  
1560.8  
1645.8  
1695.8  
1638.3  
*1820.9*  
1685.8  
1373.2  
1093.0  
902.9  
750.4  
362.7  
0.0

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