

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: P942022

Luminaire Tested: **GALN-SB5D-830-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942022  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5D-830-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

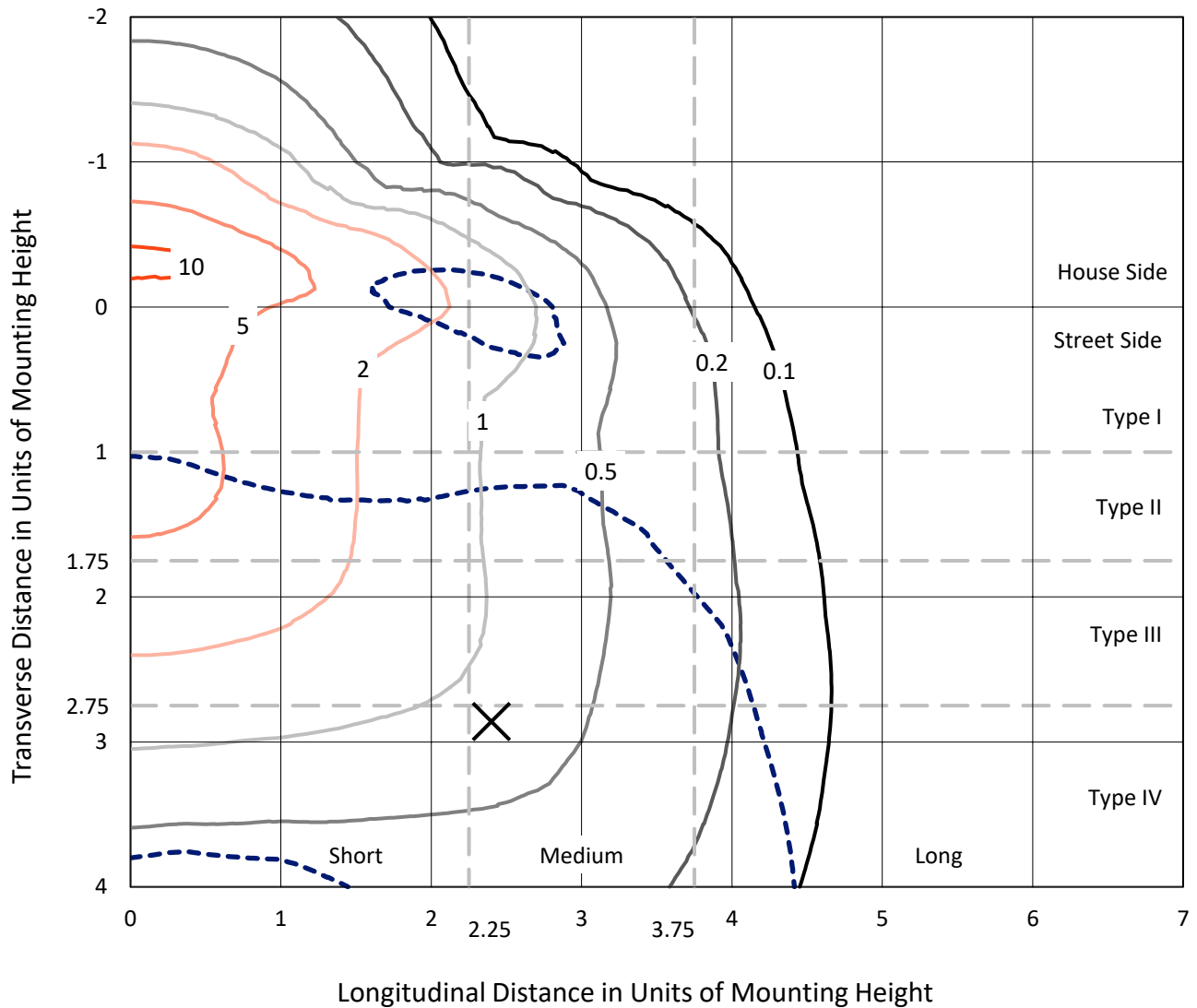
Lumens per Lamp: N/A  
Luminaire Lumens: 45785 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

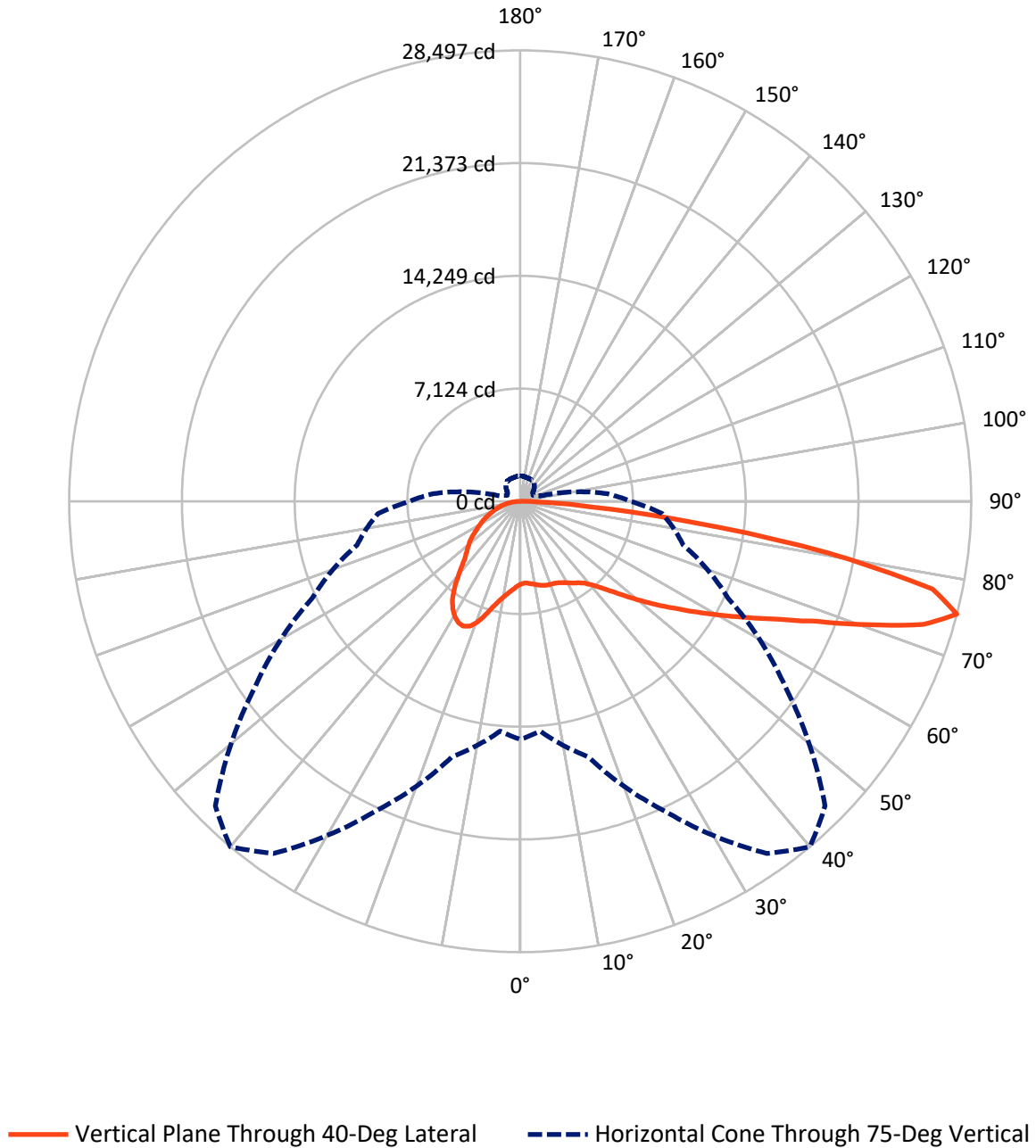
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14185.7	0.0	14185.7
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	31599.3	0.0	31599.3
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	45785.0	0.0	45785.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	522.6	1.1
10°-20°	1754.6	3.8
20°-30°	3203.8	7.0
30°-40°	4543.9	9.9
40°-50°	6135.7	13.4
50°-60°	8254.1	18.0
60°-70°	10476.4	22.9
70°-80°	9507.9	20.8
80°-90°	1386.0	3.0
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°	45785.0	100.0
0°-180°	45785.0	100.0

**Coefficient of Utilization**



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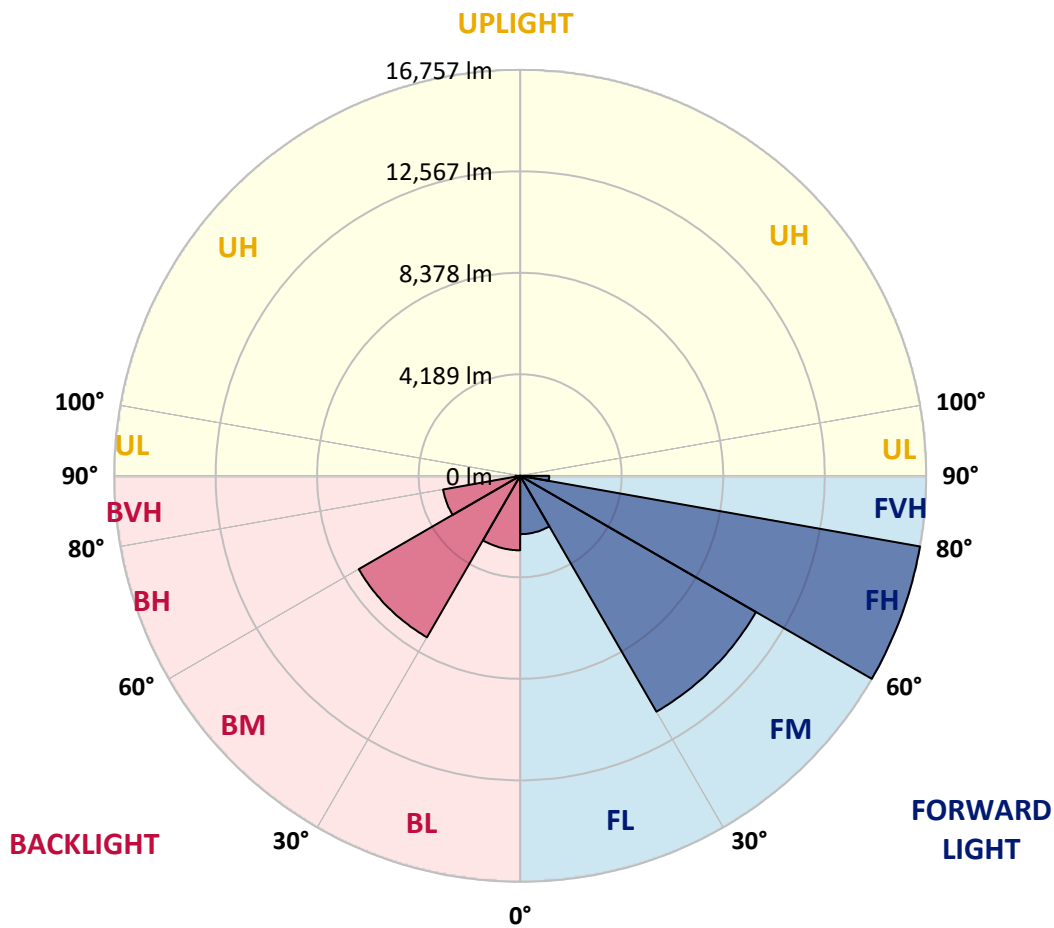
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2408.3	5.3			
FM (30°-60°)	11239.2	24.5			
FH (60°-80°)	16756.6	36.6			G5
FVH (80°-90°)	1195.1	2.6			G5
BL (0°-30°)	3072.8	6.7	B4/5000		
BM (30°-60°)	7694.5	16.8	B4/8500		
BH (60°-80°)	3227.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	190.8	0.4			G2/225
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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	5235.6	5235.6	5235.6	5235.6	5235.6	5235.6	5235.6	5235.6	5235.6	5235.6
2.5°	5155.4	5184.6	5177.3	5167.6	5167.6	5170.0	5167.6	5184.6	5201.6	5218.6
5°	5208.9	5238.0	5223.4	5211.3	5201.6	5199.2	5191.9	5189.4	5199.2	5221.0
7.5°	5313.3	5342.4	5320.6	5298.7	5279.3	5269.6	5259.9	5245.3	5238.0	5250.1
10°	5429.8	5459.0	5432.3	5393.4	5361.9	5349.7	5340.0	5325.4	5315.7	5323.0
12.5°	5546.4	5575.5	5539.1	5485.7	5444.4	5437.1	5425.0	5420.1	5417.7	5415.3
15°	5655.7	5680.0	5633.8	5570.7	5527.0	5514.8	5502.7	5510.0	5522.1	5536.7
17.5°	5740.7	5765.0	5697.0	5614.4	5573.1	5568.3	5561.0	5585.3	5619.3	5655.7
20°	5818.4	5842.7	5755.2	5643.5	5595.0	5595.0	5597.4	5648.4	5697.0	5750.4
22.5°	5927.7	5947.1	5840.2	5687.3	5616.8	5621.7	5641.1	5692.1	5752.8	5825.7
25°	6090.4	6104.9	5973.8	5769.8	5689.7	5704.3	5721.3	5745.5	5803.8	5888.8
27.5°	6352.6	6364.8	6192.4	5915.5	5794.1	5818.4	5842.7	5825.7	5852.4	5925.2
30°	6721.7	6729.0	6510.5	6143.8	5971.4	5983.5	5988.4	5917.9	5867.0	5925.2
32.5°	7158.8	7156.4	6896.6	6420.6	6172.9	6160.8	6119.5	5981.1	5862.1	5913.1
35°	7836.4	7809.7	7474.5	6809.2	6401.2	6325.9	6228.8	6051.5	5886.4	5901.0
37.5°	8958.3	8875.7	8411.9	7445.4	6741.2	6549.3	6406.1	6165.6	5939.8	5896.1
40°	10223.5	10119.0	9609.1	8317.2	7251.1	6942.7	6712.0	6328.3	6027.2	5917.9
42.5°	11724.2	11576.1	11027.2	9344.4	7897.1	7450.3	7103.0	6534.8	6155.9	5988.4
45°	13567.3	13370.6	12593.6	10502.7	8710.6	8115.6	7651.8	6848.0	6352.6	6124.4
47.5°	15429.9	15478.5	14373.5	11828.6	9686.8	8936.4	8339.0	7319.1	6639.2	6342.9
50°	17409.0	17443.0	16143.8	13297.8	10794.1	9864.1	9111.3	7846.1	7037.4	6653.7
52.5°	18953.5	18958.3	17751.4	14834.9	11947.6	10884.0	9944.2	8448.3	7498.8	7066.6
55°	19920.0	19907.8	18878.2	16289.5	13273.5	11954.9	10867.0	9133.1	8062.2	7552.2
57.5°	20621.8	20585.3	19655.3	17540.2	14686.8	13220.1	11911.2	9910.2	8727.6	8130.2
60°	20888.9	20867.0	20182.2	18620.8	16173.0	14618.8	13115.7	10779.6	9482.8	8812.6
62.5°	20990.9	21032.2	20699.5	19667.4	17763.6	16168.1	14439.1	11818.9	10332.7	9584.8
65°	21350.3	21425.5	21357.6	21037.0	19560.6	17982.1	16194.8	13054.9	11260.4	10412.9
67.5°	22061.8	22137.1	22166.2	22676.2	21755.8	20242.9	18385.2	14594.5	12345.9	11272.5
70°	22044.8	22022.9	22537.7	23980.2	24504.7	23373.1	21338.1	16488.7	13640.2	11986.5
72.5°	20065.7	19890.8	21107.4	23965.6	26792.3	26641.7	24944.3	18931.6	14757.2	12073.9
75°	15053.5	14587.2	16736.4	21598.0	27173.5	28497.0	27236.7	20446.9	14492.5	10667.8
77.5°	6437.6	5968.9	8501.7	15988.4	24320.2	26639.3	25133.7	17838.8	11568.8	7054.4
80°	1685.3	1682.9	2569.2	7248.7	16539.7	19672.3	17258.5	11520.2	6610.0	2520.7
82.5°	696.9	679.9	944.6	2819.3	8081.6	11039.4	9009.3	5138.4	2387.1	682.4
85°	259.8	257.4	459.0	973.8	2850.9	4553.2	3295.3	1313.8	595.0	332.7
87.5°	72.9	70.4	99.6	337.5	694.5	1053.9	563.4	216.1	167.6	131.1
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°
5235.6	0°	5235.6	5235.6	5235.6	5235.6	5235.6	5235.6	5235.6	5235.6	5235.6	5235.6
5245.3	2.5°	5252.6	5264.7	5286.6	5303.6	5325.4	5349.7	5383.7	5405.6	5427.4	5442.0
5257.4	5°	5274.4	5301.1	5357.0	5412.8	5478.4	5539.1	5609.5	5660.5	5701.8	5714.0
5301.1	7.5°	5323.0	5366.7	5461.4	5556.1	5660.5	5760.1	5862.1	5949.5	6019.9	6046.7
5378.8	10°	5408.0	5466.3	5599.8	5733.4	5871.8	6024.8	6155.9	6282.2	6381.8	6423.1
5471.1	12.5°	5514.8	5587.7	5762.5	5947.1	6138.9	6350.2	6520.2	6675.6	6799.4	6855.3
5599.8	15°	5653.3	5748.0	5971.4	6219.1	6500.8	6794.6	7010.7	7183.1	7321.5	7389.5
5733.4	17.5°	5803.8	5930.1	6211.8	6585.8	6988.9	7375.0	7627.5	7753.8	7897.1	7962.6
5857.2	20°	5949.5	6104.9	6508.0	7052.0	7588.7	7999.1	8203.0	8237.0	8246.8	8254.0
5973.8	22.5°	6100.1	6308.9	6879.6	7639.7	8215.2	8499.3	8528.5	8382.7	8178.8	8084.1
6087.9	25°	6265.2	6542.0	7365.3	8288.0	8754.3	8788.3	8564.9	8210.3	7824.2	7647.0
6180.2	27.5°	6425.5	6811.6	7948.1	8907.3	9142.8	8844.1	8363.3	7860.6	7394.4	7207.4
6245.8	30°	6585.8	7120.0	8591.6	9448.8	9320.1	8705.7	8045.2	7484.3	7015.6	6818.9
6304.1	32.5°	6748.5	7479.4	9332.2	9839.8	9288.5	8411.9	7649.4	7061.7	6648.9	6442.5
6355.1	35°	6933.0	7921.4	10034.0	10053.5	9077.3	7979.6	7127.3	6556.6	6197.2	6032.1
6415.8	37.5°	7173.4	8482.3	10653.3	10106.9	8708.2	7345.8	6478.9	5959.2	5663.0	5587.7
6505.6	40°	7472.1	9157.4	11126.8	10021.9	8161.8	6576.0	5769.8	5354.6	5187.0	5204.0
6627.0	42.5°	7860.6	9912.6	11459.5	9803.3	7401.7	5782.0	5148.2	4963.6	5043.7	5111.7
6809.2	45°	8365.8	10697.0	11665.9	9431.8	6542.0	5109.3	4781.5	4825.2	4885.9	4893.2
7103.0	47.5°	9011.7	11491.1	11801.9	8870.9	5665.4	4635.8	4548.3	4558.1	4545.9	4494.9
7542.5	50°	9817.9	12263.3	11923.3	8127.8	4919.9	4339.5	4222.9	4188.9	4021.4	3856.3
8127.8	52.5°	10735.8	12972.4	11974.3	7205.0	4339.5	4091.8	3902.4	3688.7	3375.4	3324.4
8863.6	55°	11755.8	13628.0	11843.2	6070.9	3851.4	3773.7	3487.1	3229.7	3195.7	3152.0
9832.5	57.5°	12974.8	14334.7	11576.1	4805.8	3351.2	3402.2	3122.9	3152.0	3091.3	3023.3
11078.2	60°	14308.0	15065.6	11107.4	3652.3	2833.9	2938.3	3028.2	3025.8	3008.8	2952.9
12392.0	62.5°	15507.6	15546.5	10184.6	2797.5	2379.8	2578.9	2824.2	2821.8	2807.2	2775.6
13764.0	65°	16221.5	15473.6	8645.0	2202.5	2005.8	2282.7	2547.4	2566.8	2569.2	2566.8
14796.1	67.5°	16095.3	14621.2	6532.3	1753.3	1697.4	1981.6	2273.0	2299.7	2319.1	2324.0
14927.2	70°	14667.4	12749.0	4259.4	1398.7	1423.0	1716.9	2013.1	2039.8	2056.8	2076.3
12953.0	72.5°	11432.8	9373.5	2438.1	1131.6	1182.6	1488.6	1755.7	1787.3	1797.0	1833.4
9014.1	75°	6967.0	5512.4	1316.2	891.2	971.3	1272.5	1500.7	1537.2	1554.2	1597.9
4426.9	77.5°	3312.3	2387.1	750.4	694.5	781.9	1039.3	1267.6	1308.9	1262.8	1287.0
1221.5	80°	1119.5	886.4	473.5	529.4	597.4	811.1	1015.1	1056.3	959.2	954.4
405.5	82.5°	391.0	359.4	301.1	352.1	386.1	580.4	767.4	820.8	713.9	711.5
182.1	85°	153.0	145.7	167.6	191.8	230.7	357.0	505.1	531.8	439.5	354.5
53.4	87.5°	31.6	34.0	41.3	43.7	70.4	123.8	182.1	223.4	177.3	150.6
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°  
5235.6  
5432.3  
5718.8  
6049.1  
6425.5  
6855.3  
7384.7  
7960.2  
8273.5  
8110.8  
7673.7  
7229.3  
6840.7  
6469.2  
6068.5  
5641.1  
5262.3  
5174.9  
4941.7  
4533.8  
3878.1  
3341.4  
3159.3  
3011.2  
2933.5  
2763.5  
2566.8  
2328.8  
2086.0  
1848.0  
*1602.7*  
1267.6  
944.6  
677.5  
349.7  
138.4  
0.0

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