

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: P941312

Luminaire Tested: **GALN-SB4D-750-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941312  
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-SB4D-750-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

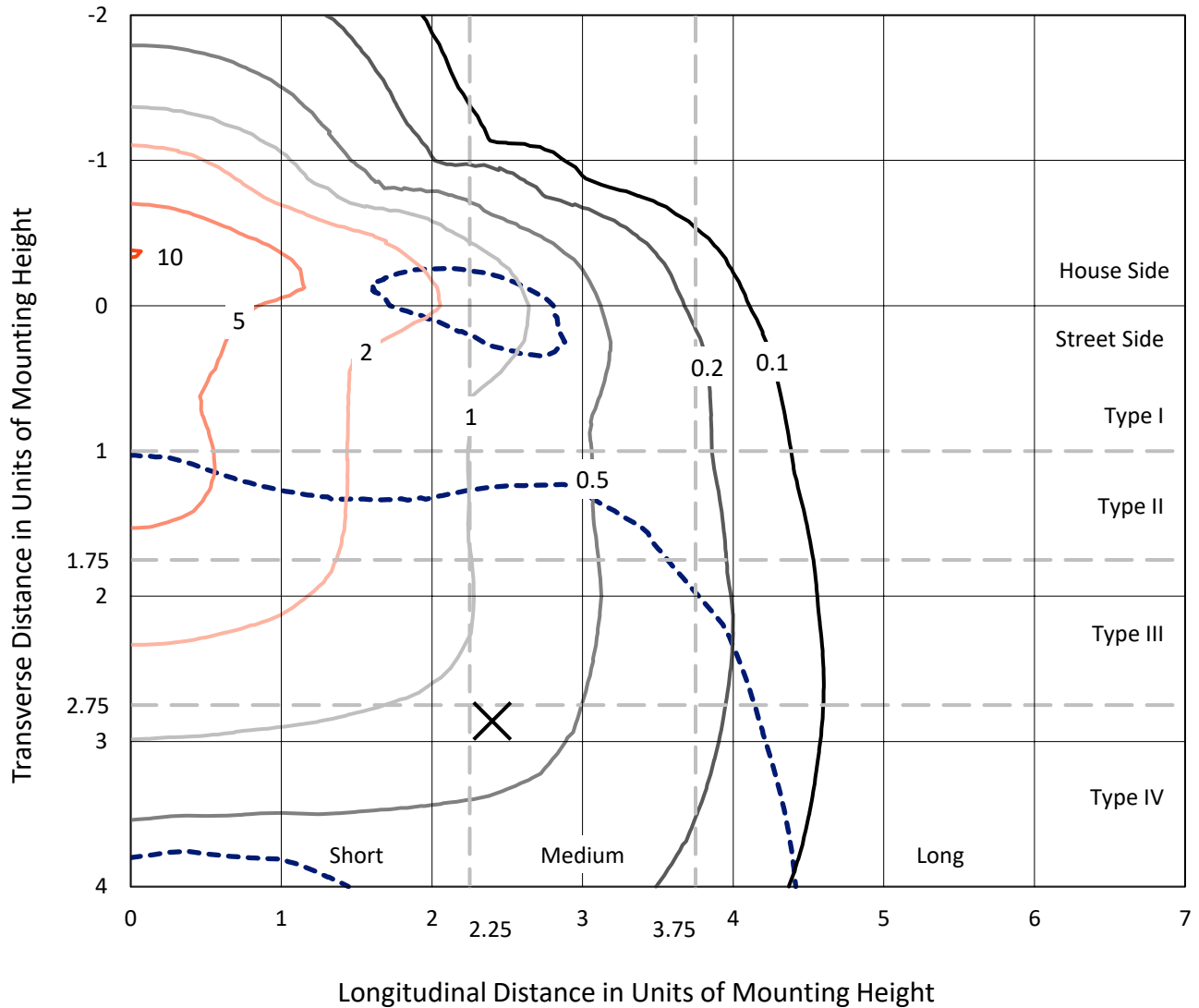
Lumens per Lamp: N/A  
Luminaire Lumens: 42771 lumens  
Efficiency: N/A  
Efficacy: 145.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

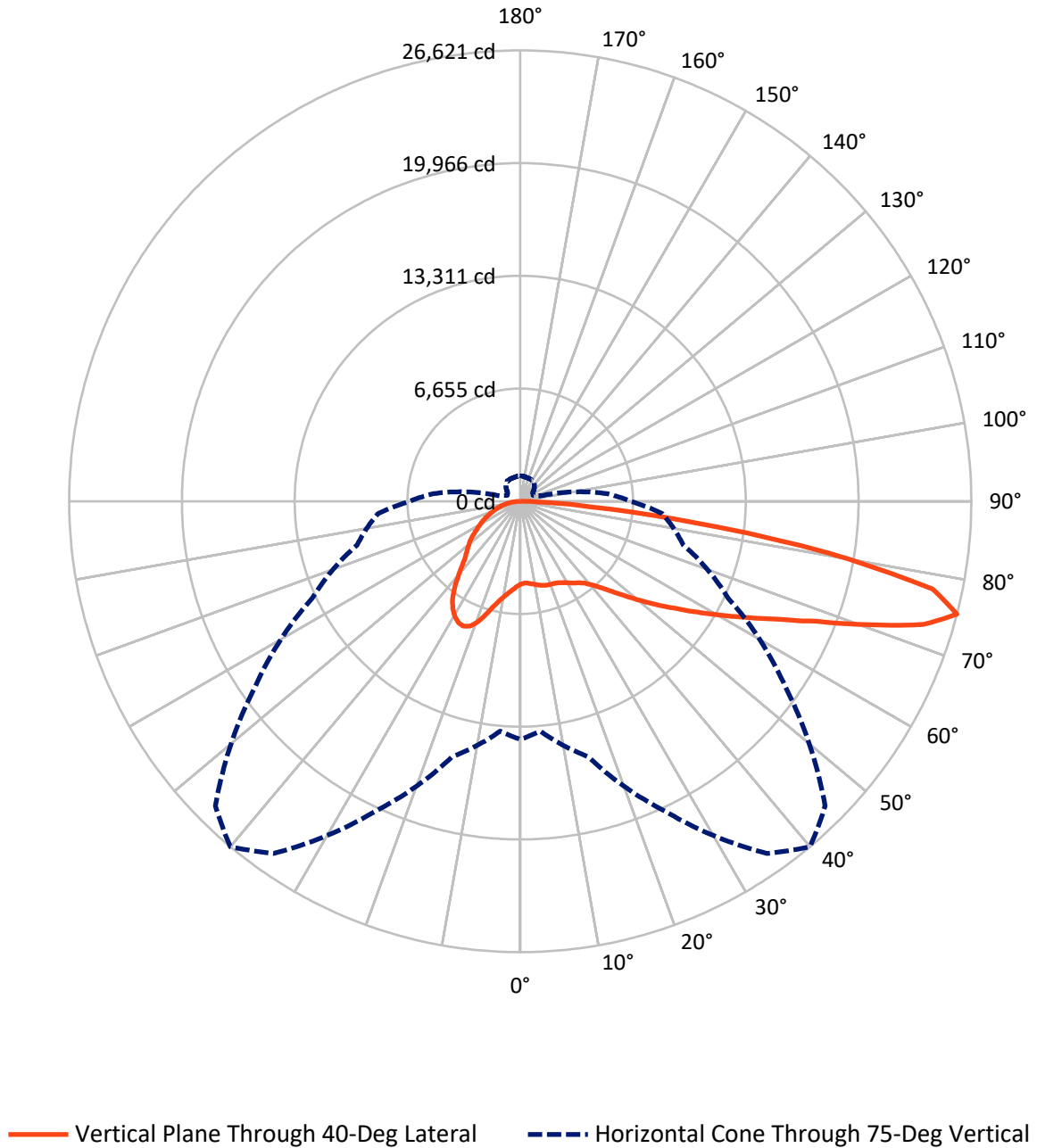
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	13251.9	0.0	13251.9
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	29519.1	0.0	29519.1
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	42771.0	0.0	42771.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	488.2	1.1
10°-20°	1639.1	3.8
20°-30°	2992.9	7.0
30°-40°	4244.8	9.9
40°-50°	5731.7	13.4
50°-60°	7710.7	18.0
60°-70°	9786.7	22.9
70°-80°	8882.0	20.8
80°-90°	1294.7	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°	42771.0	100.0
0°-180°	42771.0	100.0

**Coefficient of Utilization**



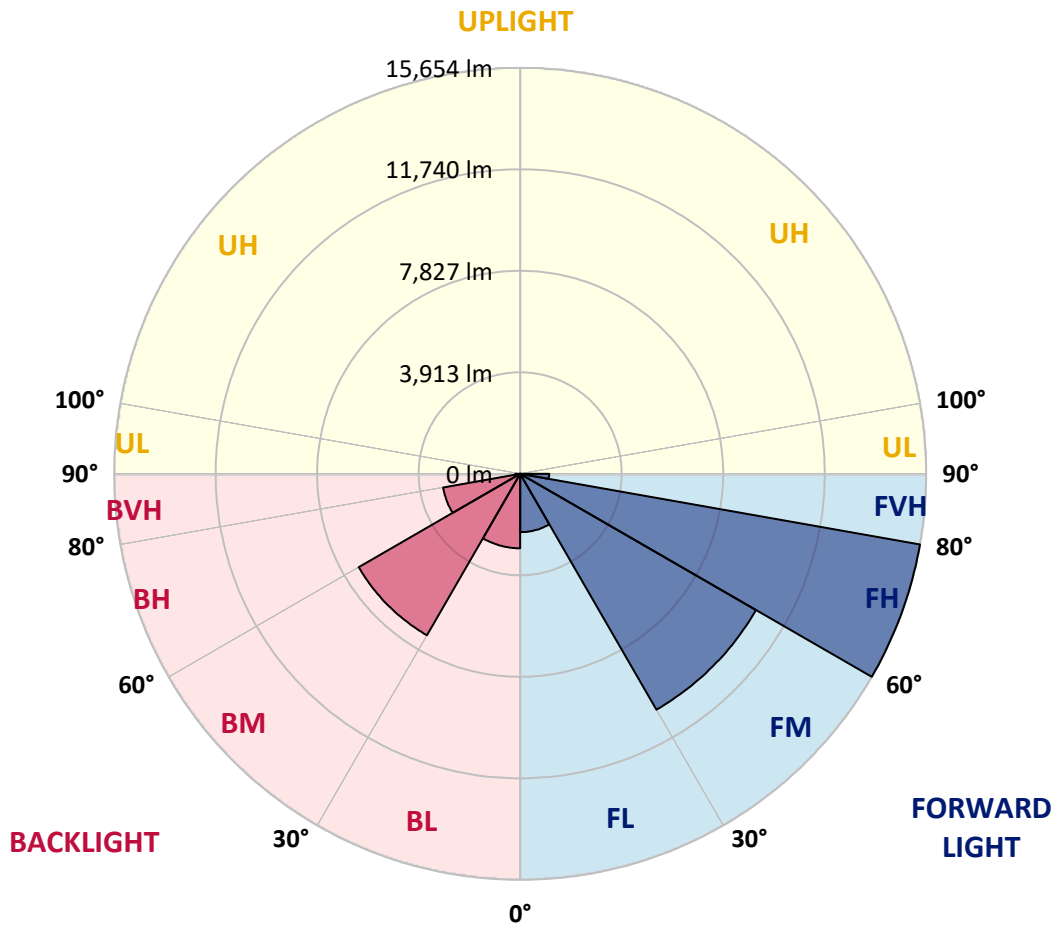
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2249.8	5.3			
FM (30°-60°)	10499.3	24.5			
FH (60°-80°)	15653.5	36.6			G5
FVH (80°-90°)	1116.5	2.6			G5
BL (0°-30°)	2870.5	6.7	B4/5000		
BM (30°-60°)	7188.0	16.8	B4/8500		
BH (60°-80°)	3015.2	7.0	B4/5000		G4/5000
BVH (80°-90°)	178.3	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°	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9
2.5°	4816.1	4843.3	4836.5	4827.4	4827.4	4829.7	4827.4	4843.3	4859.2	4875.0
5°	4866.0	4893.2	4879.6	4868.2	4859.2	4856.9	4850.1	4847.8	4856.9	4877.3
7.5°	4963.5	4990.7	4970.3	4949.9	4931.8	4922.7	4913.6	4900.0	4893.2	4904.5
10°	5072.4	5099.6	5074.7	5038.4	5008.9	4997.5	4988.5	4974.9	4965.8	4972.6
12.5°	5181.3	5208.5	5174.5	5124.6	5086.0	5079.2	5067.9	5063.3	5061.1	5058.8
15°	5283.4	5306.1	5263.0	5204.0	5163.1	5151.8	5140.5	5147.3	5158.6	5172.2
17.5°	5362.8	5385.5	5321.9	5244.8	5206.2	5201.7	5194.9	5217.6	5249.3	5283.4
20°	5435.4	5458.0	5376.4	5272.0	5226.7	5226.7	5228.9	5276.6	5321.9	5371.8
22.5°	5537.4	5555.6	5455.8	5312.9	5247.1	5251.6	5269.8	5317.4	5374.1	5442.2
25°	5689.4	5703.0	5580.5	5390.0	5315.1	5328.7	5344.6	5367.3	5421.8	5501.2
27.5°	5934.4	5945.8	5784.7	5526.1	5412.7	5435.4	5458.0	5442.2	5467.1	5535.2
30°	6279.3	6286.1	6081.9	5739.3	5578.3	5589.6	5594.2	5528.4	5480.7	5535.2
32.5°	6687.6	6685.3	6442.6	5998.0	5766.6	5755.2	5716.7	5587.4	5476.2	5523.8
35°	7320.5	7295.5	6982.5	6360.9	5979.8	5909.5	5818.7	5653.1	5498.9	5512.5
37.5°	8368.6	8291.4	7858.1	6955.3	6297.4	6118.2	5984.3	5759.8	5548.8	5508.0
40°	9550.5	9452.9	8976.5	7769.7	6773.8	6485.7	6270.2	5911.8	5630.5	5528.4
42.5°	10952.4	10814.0	10301.3	8729.3	7377.2	6959.8	6635.4	6104.6	5750.7	5594.2
45°	12674.2	12490.4	11764.5	9811.3	8137.2	7581.4	7148.1	6397.2	5934.4	5721.2
47.5°	14414.2	14459.5	13427.3	11049.9	9049.1	8348.1	7790.1	6837.3	6202.1	5925.4
50°	16263.0	16294.8	15081.1	12422.4	10083.6	9214.7	8511.5	7329.6	6574.2	6215.7
52.5°	17705.8	17710.3	16582.9	13858.4	11161.1	10167.5	9289.6	7892.2	7005.2	6601.4
55°	18608.6	18597.3	17635.4	15217.2	12399.7	11167.9	10151.6	8531.9	7531.5	7055.1
57.5°	19264.2	19230.2	18361.4	16385.5	13720.0	12349.8	11127.1	9257.8	8153.0	7595.0
60°	19513.8	19493.4	18853.6	17395.0	15108.3	13656.5	12252.3	10069.9	8858.6	8232.4
62.5°	19609.1	19647.6	19336.8	18372.7	16594.2	15103.8	13488.6	11040.9	9652.5	8953.8
65°	19944.8	20015.1	19951.6	19652.2	18272.9	16798.4	15128.7	12195.5	10519.1	9727.4
67.5°	20609.5	20679.8	20707.0	21183.4	20323.6	18910.4	17174.9	13633.8	11533.1	10530.5
70°	20593.6	20573.2	21054.1	22401.6	22891.6	21834.5	19933.5	15403.2	12742.3	11197.4
72.5°	18744.7	18581.4	19717.9	22388.0	25028.5	24887.9	23302.2	17685.4	13785.8	11279.1
75°	14062.5	13627.0	15634.6	20176.2	25384.7	26621.0	25443.7	19100.9	13538.5	9965.6
77.5°	6013.8	5576.0	7942.1	14935.9	22719.2	24885.6	23479.1	16664.5	10807.2	6590.0
80°	1574.4	1572.1	2400.1	6771.5	15450.9	18377.2	16122.3	10761.8	6174.9	2354.7
82.5°	651.1	635.2	882.5	2633.7	7549.6	10312.7	8416.2	4800.2	2230.0	637.5
85°	242.7	240.5	428.7	909.7	2663.2	4253.5	3078.4	1227.3	555.8	310.8
87.5°	68.1	65.8	93.0	315.3	648.8	984.5	526.3	201.9	156.5	122.5
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°
4890.9	0°	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9	4890.9
4900.0	2.5°	4906.8	4918.1	4938.6	4954.4	4974.9	4997.5	5029.3	5049.7	5070.1	5083.7
4911.3	5°	4927.2	4952.2	5004.3	5056.5	5117.8	5174.5	5240.3	5287.9	5326.5	5337.8
4952.2	7.5°	4972.6	5013.4	5101.9	5190.4	5287.9	5380.9	5476.2	5557.9	5623.7	5648.6
5024.8	10°	5052.0	5106.4	5231.2	5356.0	5485.3	5628.2	5750.7	5868.7	5961.7	6000.2
5111.0	12.5°	5151.8	5219.9	5383.2	5555.6	5734.8	5932.2	6091.0	6236.2	6351.8	6404.0
5231.2	15°	5281.1	5369.6	5578.3	5809.7	6072.8	6347.3	6549.2	6710.3	6839.6	6903.1
5356.0	17.5°	5421.8	5539.7	5802.9	6152.2	6528.8	6889.5	7125.4	7243.4	7377.2	7438.5
5471.7	20°	5557.9	5703.0	6079.6	6587.8	7089.1	7472.5	7663.0	7694.8	7703.9	7710.7
5580.5	22.5°	5698.5	5893.6	6426.7	7136.8	7674.4	7939.8	7967.0	7830.9	7640.4	7551.9
5687.2	25°	5852.8	6111.4	6880.4	7742.4	8178.0	8209.8	8001.1	7669.9	7309.2	7143.6
5773.4	27.5°	6002.5	6363.2	7424.9	8320.9	8541.0	8261.9	7812.8	7343.2	6907.6	6733.0
5834.6	30°	6152.2	6651.3	8026.0	8826.8	8706.6	8132.6	7515.6	6991.6	6553.7	6370.0
5889.1	32.5°	6304.2	6987.0	8717.9	9192.0	8677.1	7858.1	7145.8	6596.8	6211.2	6018.4
5936.7	35°	6476.6	7399.9	9373.5	9391.7	8479.7	7454.3	6658.1	6125.0	5789.3	5635.0
5993.4	37.5°	6701.2	7923.9	9952.0	9441.6	8134.9	6862.3	6052.4	5566.9	5290.2	5219.9
6077.4	40°	6980.2	8554.6	10394.3	9362.2	7624.5	6143.1	5390.0	5002.1	4845.6	4861.4
6190.8	42.5°	7343.2	9260.1	10705.1	9158.0	6914.4	5401.3	4809.3	4636.8	4711.7	4775.2
6360.9	45°	7815.0	9992.8	10898.0	8810.9	6111.4	4773.0	4466.7	4507.5	4564.3	4571.1
6635.4	47.5°	8418.5	10734.6	11025.0	8286.9	5292.4	4330.6	4248.9	4258.0	4246.7	4199.0
7046.0	50°	9171.6	11456.0	11138.4	7592.7	4596.0	4053.8	3944.9	3913.2	3756.7	3602.4
7592.7	52.5°	10029.1	12118.4	11186.1	6730.7	4053.8	3822.4	3645.5	3445.9	3153.2	3105.6
8280.1	55°	10981.9	12730.9	11063.6	5671.3	3597.9	3525.3	3257.6	3017.1	2985.4	2944.5
9185.2	57.5°	12120.7	13391.1	10814.0	4489.4	3130.6	3178.2	2917.3	2944.5	2887.8	2824.3
10349.0	60°	13366.1	14073.9	10376.2	3411.8	2647.4	2744.9	2828.8	2826.6	2810.7	2758.5
11576.2	62.5°	14486.7	14523.0	9514.2	2613.3	2223.1	2409.2	2638.3	2636.0	2622.4	2592.9
12857.9	65°	15153.7	14455.0	8075.9	2057.5	1873.8	2132.4	2379.7	2397.8	2400.1	2397.8
13822.1	67.5°	15035.7	13658.7	6102.3	1637.9	1585.7	1851.1	2123.3	2148.3	2166.4	2171.0
13944.6	70°	13701.8	11909.7	3979.0	1306.7	1329.4	1603.8	1880.6	1905.6	1921.4	1939.6
12100.3	72.5°	10680.2	8756.5	2277.6	1057.1	1104.8	1390.6	1640.1	1669.6	1678.7	1712.7
8420.7	75°	6508.4	5149.5	1229.5	832.5	907.4	1188.7	1401.9	1436.0	1451.9	1492.7
4135.5	77.5°	3094.3	2230.0	701.0	648.8	730.5	970.9	1184.2	1222.7	1179.6	1202.3
1141.1	80°	1045.8	828.0	442.4	494.5	558.1	757.7	948.2	986.8	896.1	891.5
378.8	82.5°	365.2	335.7	281.3	328.9	360.7	542.2	716.9	766.8	666.9	664.7
170.1	85°	142.9	136.1	156.5	179.2	215.5	333.5	471.9	496.8	410.6	331.2
49.9	87.5°	29.5	31.8	38.6	40.8	65.8	115.7	170.1	208.7	165.6	140.6
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°  
4890.9  
5074.7  
5342.4  
5650.9  
6002.5  
6404.0  
6898.6  
7436.2  
7728.8  
7576.8  
7168.5  
6753.4  
6390.4  
6043.3  
5669.0  
5269.8  
4915.9  
4834.2  
4616.4  
4235.3  
3622.8  
3121.5  
2951.3  
2813.0  
2740.4  
2581.6  
2397.8  
2175.5  
1948.7  
1726.3  
1497.2  
1184.2  
882.5  
632.9  
326.7  
129.3  
0.0

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