

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: P954737

Luminaire Tested: **GALN-SB7D-927-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-927-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44641 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

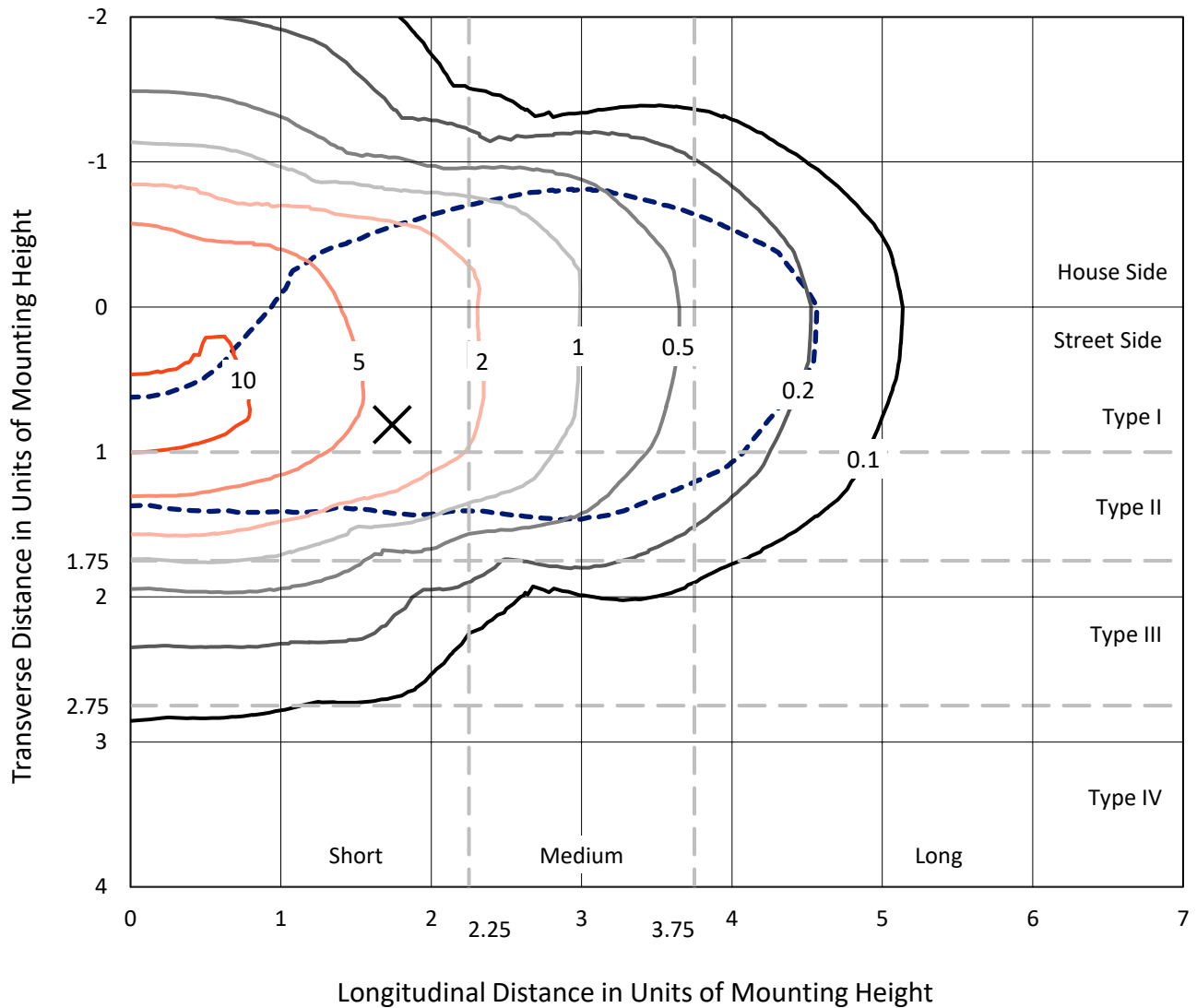
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

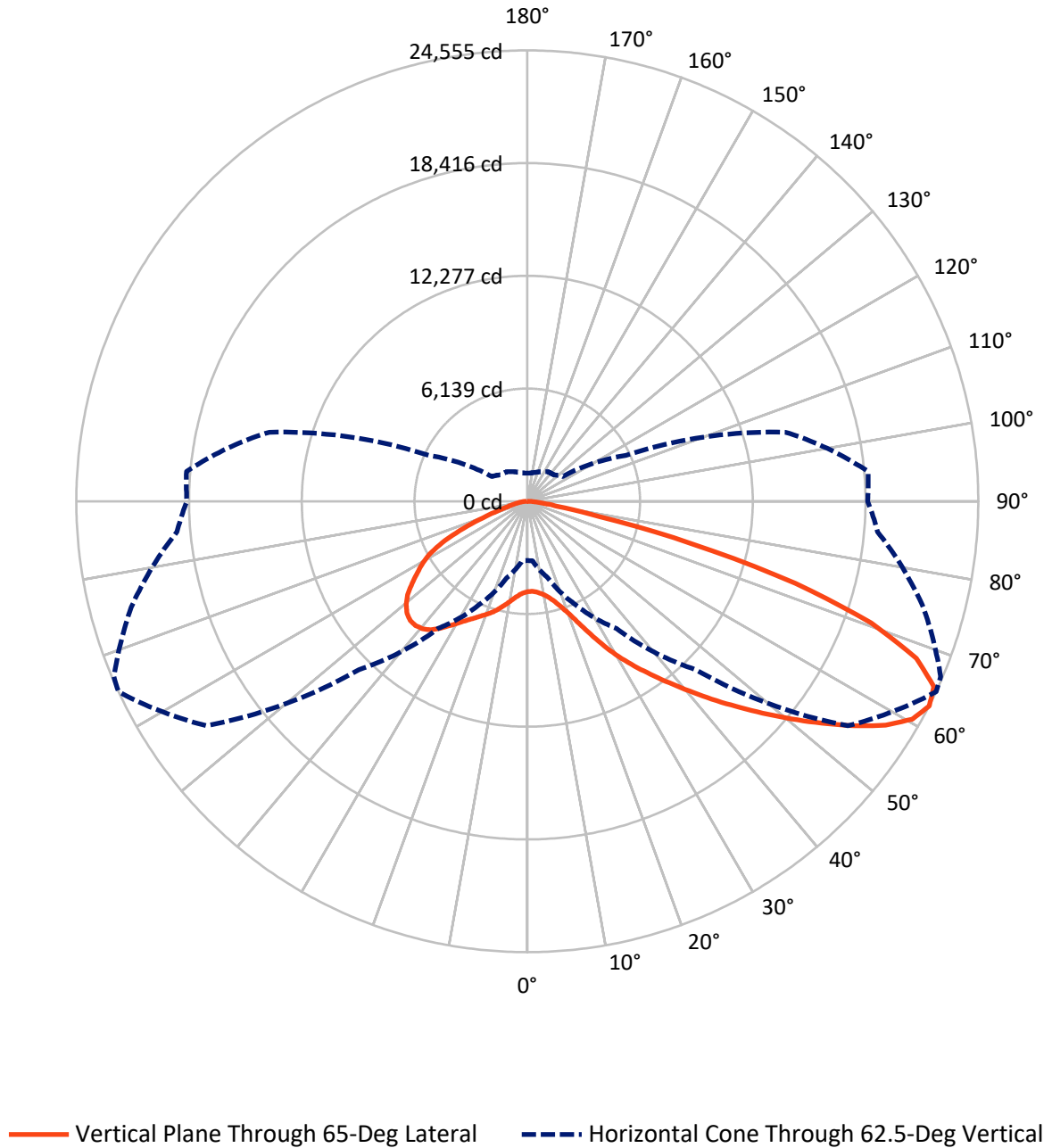
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14086.7	0.0	14086.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	30554.2	0.0	30554.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	44641.0	0.0	44641.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.4	1.1
10°-20°	1663.1	3.7
20°-30°	3372.2	7.6
30°-40°	5835.5	13.1
40°-50°	8830.9	19.8
50°-60°	10353.7	23.2
60°-70°	8680.3	19.4
70°-80°	4792.2	10.7
80°-90°	622.5	1.4
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°	44641.0	100.0
0°-180°	44641.0	100.0



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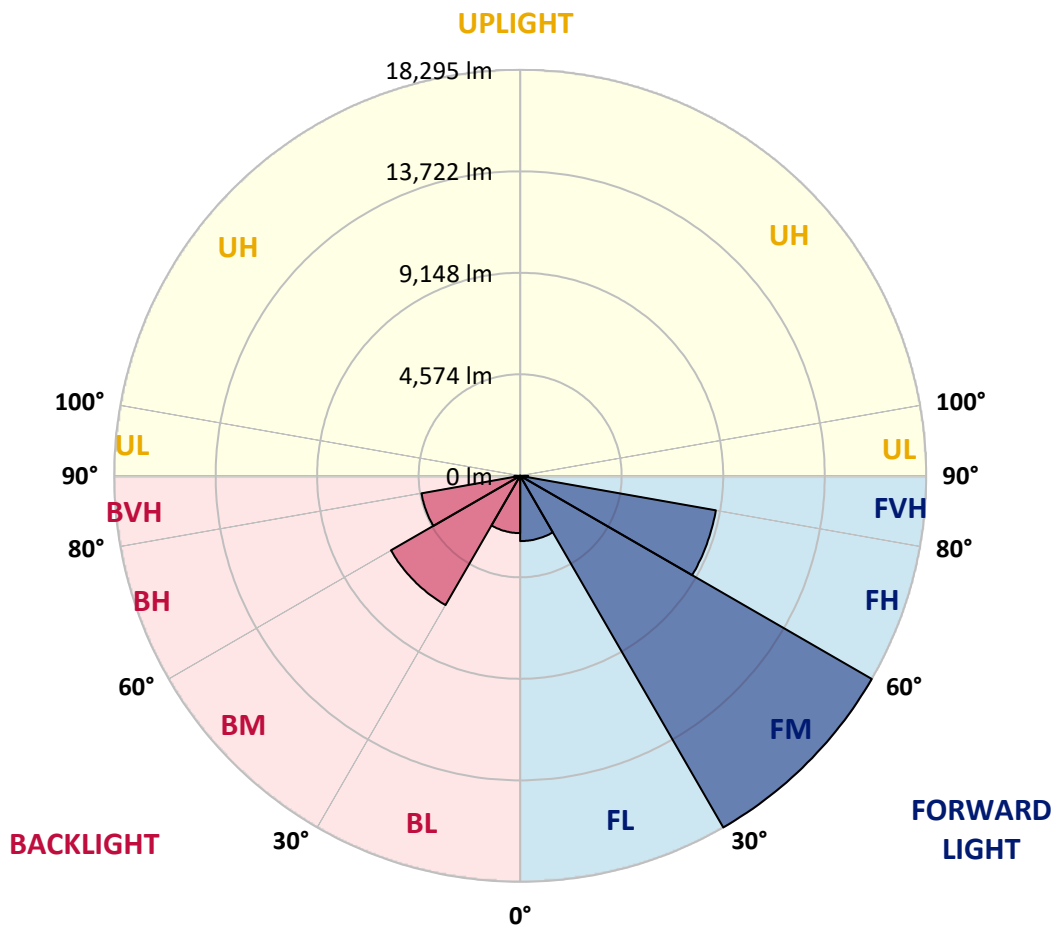
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2942.4	6.6			
FM (30°-60°)	18295.3	41.0			
FH (60°-80°)	8953.7	20.1			G4/12000
FVH (80°-90°)	362.8	0.8			G3/500
BL (0°-30°)	2583.3	5.8	B4/5000		
BM (30°-60°)	6724.8	15.1	B4/8500		
BH (60°-80°)	4518.9	10.1	B4/5000		G4/5000
BVH (80°-90°)	259.7	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	4919.2	4919.2	4919.2	4919.2	4919.2	4919.2	4919.2	4919.2	4919.2	4919.2
2.5°	4886.8	4872.9	4884.5	4884.5	4889.1	4886.8	4903.0	4907.7	4914.6	4928.5
5°	4838.2	4835.9	4856.7	4875.2	4893.8	4910.0	4930.8	4960.9	4965.6	4981.8
7.5°	4822.0	4808.1	4840.5	4863.7	4907.7	4947.0	5002.6	5053.6	5074.4	5081.4
10°	4947.0	4923.9	4954.0	4967.9	5004.9	5044.3	5109.2	5190.2	5213.4	5241.2
12.5°	5160.1	5134.6	5178.6	5199.5	5234.2	5269.0	5313.0	5391.7	5403.3	5454.2
15°	5451.9	5421.8	5449.6	5475.1	5533.0	5565.4	5609.4	5685.9	5685.9	5725.2
17.5°	5848.0	5808.6	5829.4	5838.7	5875.8	5924.4	5998.5	6065.7	6100.4	6086.5
20°	6438.6	6389.9	6389.9	6343.6	6329.7	6369.1	6466.4	6559.0	6596.0	6524.3
22.5°	7325.6	7256.1	7216.7	7059.3	6996.7	7001.4	7098.6	7212.1	7242.2	7114.8
25°	8453.5	8344.7	8291.4	8059.8	7918.5	7795.8	7872.2	8018.1	8059.8	7902.3
27.5°	9581.4	9588.4	9537.4	9259.5	9025.6	8800.9	8761.5	8914.4	8958.4	8780.1
30°	11163.3	10998.8	10901.5	10568.0	10234.5	9919.6	9757.4	9820.0	9831.5	9618.5
32.5°	12527.4	12485.7	12277.3	11985.4	11557.0	11063.7	10792.7	10693.1	10674.6	10371.2
35°	14081.5	14058.3	13838.3	13490.9	13027.7	12342.1	11853.4	11568.6	11545.4	11119.3
37.5°	15661.0	15661.0	15445.6	15065.8	14586.3	13729.4	12986.0	12534.3	12460.2	11904.4
40°	16920.9	16844.5	16883.8	16724.0	16175.1	15264.9	14243.6	13588.1	13488.6	12821.5
42.5°	17636.6	17611.1	17847.3	18025.7	17801.0	17073.8	15628.6	14729.9	14591.0	13831.3
45°	17796.4	17768.6	18190.1	18843.2	19158.2	18859.4	17134.0	15932.0	15762.9	14887.4
47.5°	17428.1	17372.5	17990.9	19021.5	20031.3	20557.1	18764.5	17235.9	16990.4	15915.7
50°	16321.1	16267.8	17203.5	18572.2	20325.5	21710.5	20533.9	18618.6	18243.4	17018.2
52.5°	13914.7	13940.2	15406.2	17286.8	19938.7	22428.4	22057.9	20075.3	19623.7	18146.1
55°	10839.0	10894.6	12696.5	14767.0	18391.6	22319.6	23097.8	21576.1	21126.8	19206.8
57.5°	7761.0	8006.5	9694.9	11744.6	15420.1	20594.1	23324.7	23002.8	22567.4	20364.8
60°	5030.4	5074.4	6811.4	8877.3	11742.3	17527.7	22863.8	24084.4	23743.9	21546.0
62.5°	3223.9	3254.0	4312.4	6209.3	8451.2	12967.4	21312.1	24554.5	24450.3	22326.5
65°	2369.3	2346.1	2897.4	4104.0	5692.8	7997.2	18298.9	24327.6	24533.7	22815.2
67.5°	1977.9	1945.5	2216.4	2841.8	4194.3	4541.7	13539.5	22852.3	23607.3	22759.6
70°	1801.9	1774.1	1938.5	2109.9	3272.5	3040.9	6825.3	19866.9	21029.5	22127.3
72.5°	1526.3	1477.6	1702.3	1873.7	2545.3	2332.2	2820.9	15260.3	16677.7	20100.8
75°	1183.5	1151.1	1343.3	1649.0	1913.0	1820.4	1783.3	9266.4	10813.5	15545.2
77.5°	938.0	894.0	1070.0	1285.4	1720.8	1373.4	1299.3	3990.5	5523.7	9924.2
80°	706.4	667.0	812.9	1016.7	1322.5	1035.3	840.7	1628.2	2082.1	5028.1
82.5°	502.6	467.8	567.4	745.8	889.4	928.7	516.5	912.5	1026.0	1938.5
85°	321.9	301.1	379.8	467.8	565.1	597.5	315.0	477.1	523.4	799.0
87.5°	176.0	143.6	203.8	217.7	261.7	238.6	150.5	173.7	187.6	289.5
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°
4919.2	0°	4919.2	4919.2	4919.2	4919.2	4919.2	4919.2	4919.2	4919.2	4919.2	4919.2
4928.5	2.5°	4937.8	4944.7	4967.9	4974.8	4991.0	5011.9	5025.8	5039.7	5039.7	5053.6
5002.6	5°	5004.9	5021.1	5069.8	5095.3	5137.0	5178.6	5204.1	5234.2	5252.8	5262.0
5120.7	7.5°	5134.6	5160.1	5229.6	5273.6	5345.4	5403.3	5442.7	5484.4	5493.6	5519.1
5285.2	10°	5310.7	5340.8	5419.5	5502.9	5588.6	5660.4	5697.4	5727.5	5739.1	5743.8
5495.9	12.5°	5512.1	5556.2	5658.1	5760.0	5850.3	5912.8	5922.1	5915.1	5882.7	5854.9
5755.3	15°	5760.0	5799.3	5912.8	6024.0	6112.0	6123.6	6065.7	6028.6	5989.2	5982.3
6044.8	17.5°	6056.4	6077.3	6181.5	6290.3	6297.3	6257.9	6172.2	6137.5	6100.4	6074.9
6422.3	20°	6401.5	6394.6	6468.7	6515.0	6466.4	6345.9	6216.2	6158.3	6121.3	6091.2
6885.6	22.5°	6813.8	6760.5	6751.2	6739.6	6609.9	6357.5	6181.5	6107.4	6049.5	6007.8
7531.7	25°	7413.6	7209.8	7068.5	6989.8	6698.0	6295.0	6070.3	5905.9	5797.0	5725.2
8321.5	27.5°	8164.0	7821.2	7464.6	7272.3	6698.0	6167.6	5801.7	5535.3	5357.0	5282.9
9085.8	30°	8879.7	8520.7	7994.9	7612.8	6681.7	5959.1	5368.6	4998.0	4789.5	4715.4
9738.9	32.5°	9491.1	9099.7	8557.7	7985.7	6642.4	5621.0	4831.2	4421.3	4219.8	4131.8
10385.1	35°	10058.5	9641.6	9122.8	8395.6	6538.1	5125.4	4240.6	3928.0	3703.3	3562.1
11042.8	37.5°	10639.8	10144.2	9657.8	8766.2	6350.6	4546.4	3786.7	3520.4	3256.3	3066.4
11742.3	40°	11272.1	10679.2	10229.9	8986.2	6042.5	3995.1	3434.7	3191.5	2911.2	2709.8
12548.2	42.5°	12010.9	11320.7	10866.8	9099.7	5621.0	3603.7	3205.4	2966.8	2702.8	2538.4
13412.1	45°	12782.2	12027.1	11448.1	9097.4	5150.8	3420.8	3131.3	2895.0	2603.2	2431.8
14299.2	47.5°	13590.5	12765.9	11950.7	8949.1	4743.2	3446.3	3089.6	2739.9	2417.9	2251.2
15195.5	50°	14401.1	13574.2	12437.1	8671.2	4569.5	3390.7	2934.4	2522.2	2142.3	1991.8
16036.2	52.5°	15204.7	14433.5	12856.3	8275.2	4393.5	3184.5	2735.2	2239.6	2028.8	1924.6
16904.7	55°	16013.0	15283.5	13312.5	7698.5	3953.5	2943.7	2401.7	2133.1	1938.5	1843.6
17754.7	57.5°	16823.6	16265.5	13745.6	7121.8	3399.9	2647.2	2218.8	2003.4	1848.2	1767.1
18465.7	60°	17666.7	17388.7	14192.6	6591.4	2853.3	2267.4	2084.4	1899.1	1741.7	1651.3
19148.9	62.5°	18535.2	18625.5	14542.3	5908.2	2350.8	2035.8	1964.0	1774.1	1621.2	1535.5
19714.0	65°	19410.6	19818.3	14771.6	4960.9	1906.1	1815.8	1834.3	1637.4	1482.3	1408.1
20128.6	67.5°	20070.7	20677.5	14706.8	3754.3	1563.3	1607.3	1672.2	1493.8	1347.9	1290.0
20061.4	70°	20144.8	20575.6	14067.6	2570.8	1308.6	1403.5	1491.5	1352.6	1202.0	1160.3
19116.5	72.5°	19158.2	19186.0	12286.5	1679.1	1107.1	1232.1	1301.6	1209.0	1063.1	1021.4
16724.0	75°	16571.2	15867.1	9020.9	1107.1	926.4	1058.4	1123.3	1058.4	917.1	926.4
12513.5	77.5°	12555.2	11237.4	5477.4	787.4	773.6	889.4	977.4	931.0	810.6	910.2
6292.6	80°	6468.7	6079.6	2443.4	588.3	611.4	711.0	803.7	743.4	641.5	611.4
1405.8	82.5°	1482.3	1723.1	963.5	421.5	442.4	511.8	613.7	558.2	460.9	389.1
586.0	85°	518.8	567.4	426.1	264.0	259.4	319.6	416.9	372.9	312.7	250.1
247.8	87.5°	164.4	215.4	159.8	106.5	111.2	143.6	192.2	176.0	145.9	95.0
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°
4919.2
5053.6
5266.6
5509.8
5732.2
5854.9
5982.3
6077.3
6093.5
6021.7
5753.0
5319.9
4759.4
4175.8
3608.4
3117.4
2749.1
2570.8
2459.6
2274.3
2001.0
1924.6
1834.3
1753.2
1644.4
1533.2
1405.8
1292.3
1162.6
1019.1
894.0
801.3
558.2
384.5
264.0
99.6
0.0

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