

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: P943687

Luminaire Tested: **GALN-SB8B-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-740-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48206 lumens
Efficiency: N/A
Efficacy: 164.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

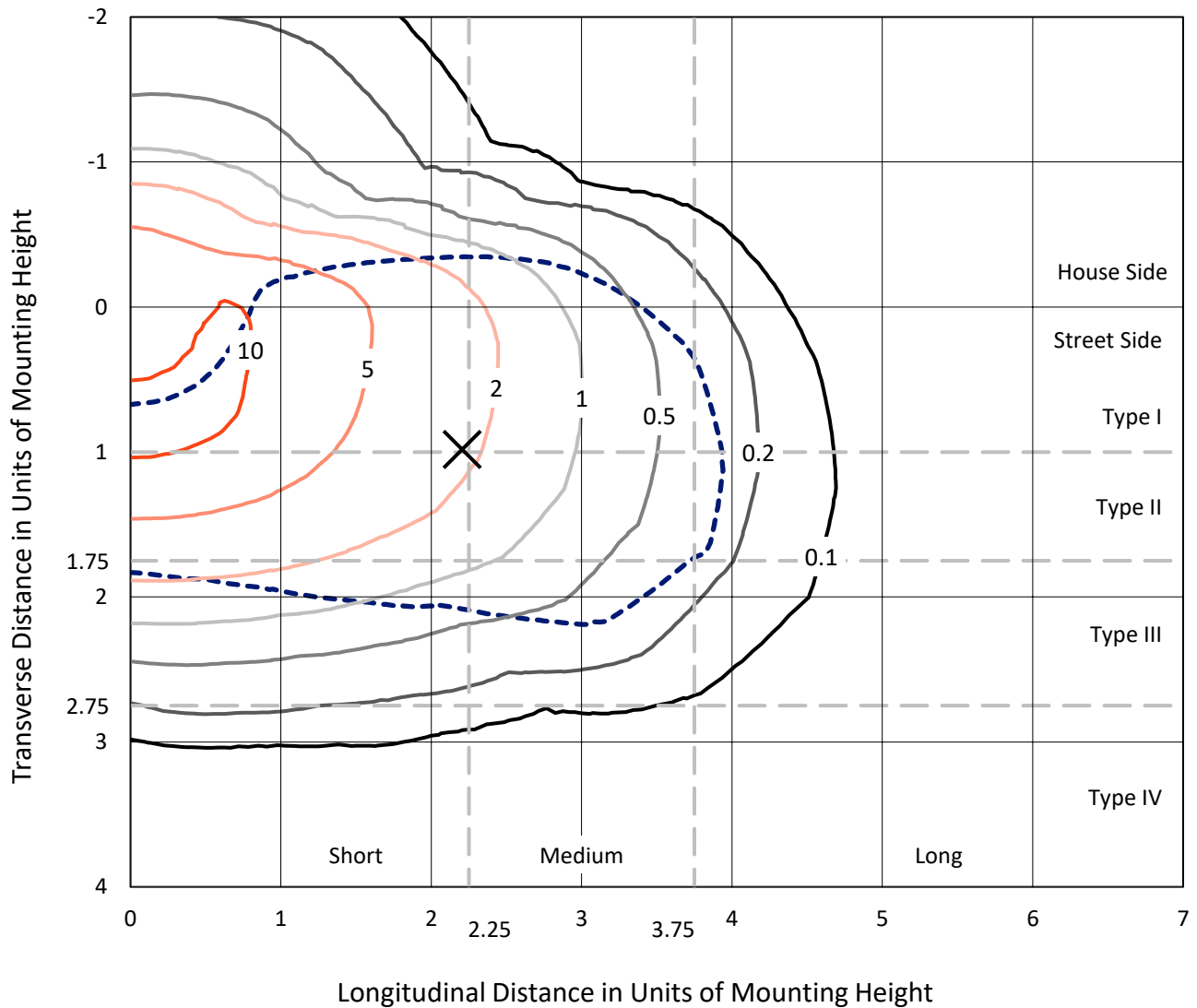
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

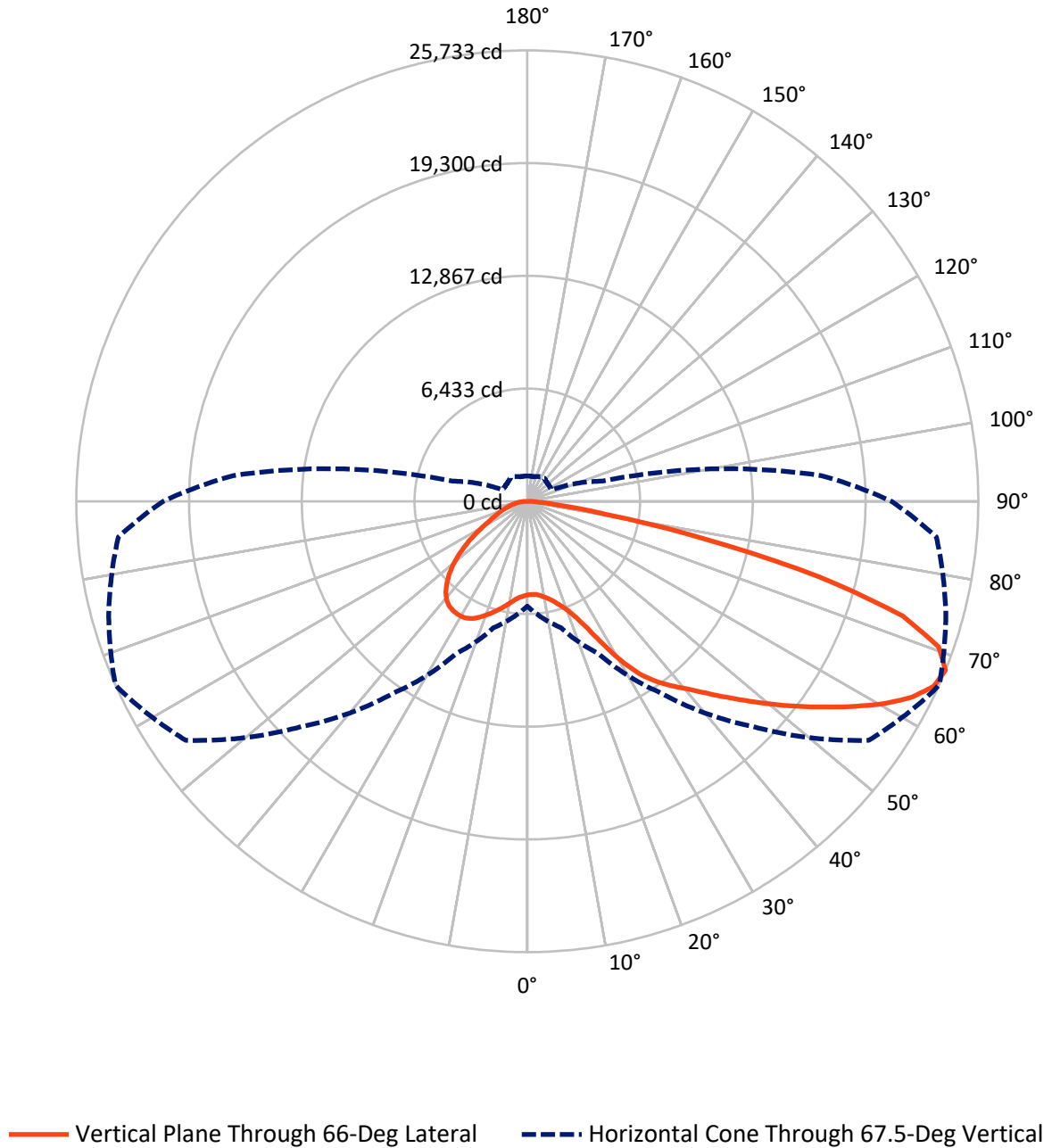
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11986.3	0.0	11986.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	36219.7	0.0	36219.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	48206.0	0.0	48206.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.1	1.1
10°-20°	1751.4	3.6
20°-30°	3375.7	7.0
30°-40°	5918.9	12.3
40°-50°	8799.4	18.3
50°-60°	11154.1	23.1
60°-70°	10914.0	22.6
70°-80°	5206.1	10.8
80°-90°	556.4	1.2
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°	48206.0	100.0
0°-180°	48206.0	100.0

Coefficient of Utilization



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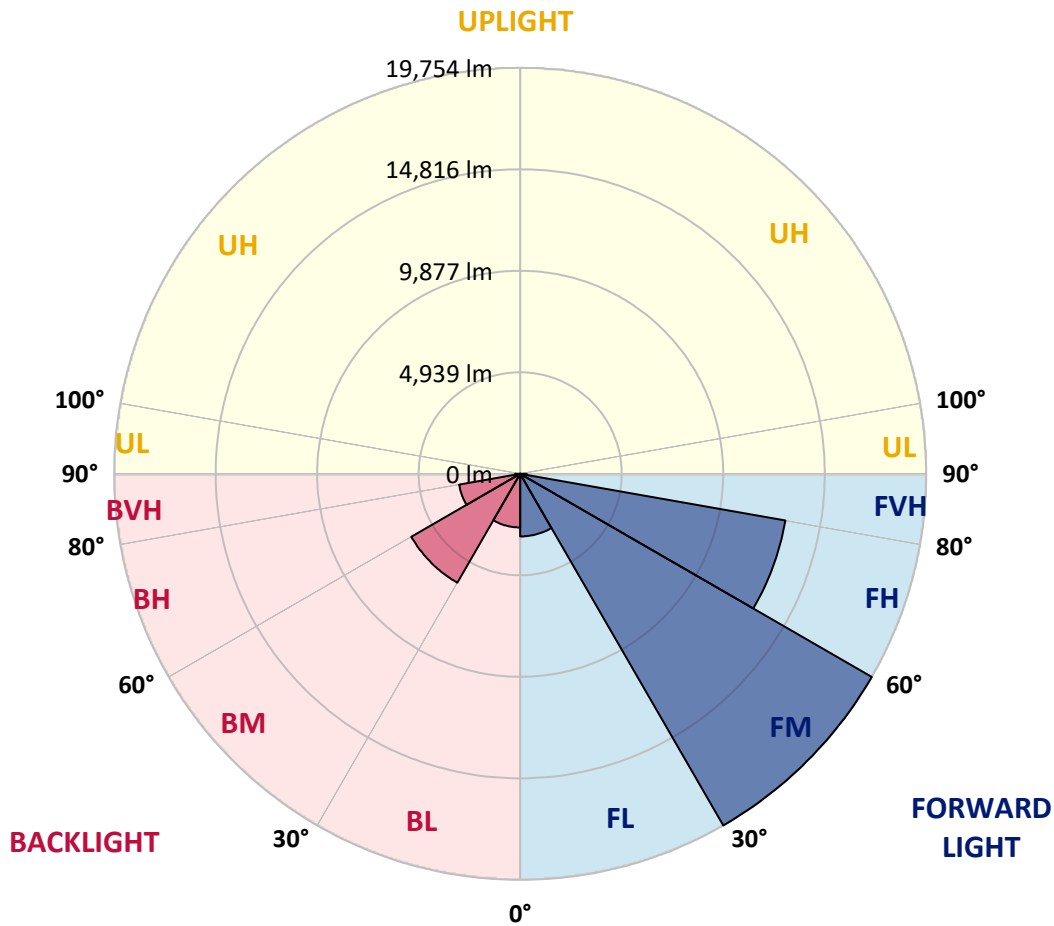
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3046.1	6.3			
FM (30°-60°)	19754.4	41.0			
FH (60°-80°)	13103.7	27.2			G5
FVH (80°-90°)	315.5	0.7			G3/500
BL (0°-30°)	2611.0	5.4	B4/5000		
BM (30°-60°)	6117.9	12.7	B4/8500		
BH (60°-80°)	3016.4	6.3	B4/5000		G4/5000
BVH (80°-90°)	240.9	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	5346.7	5346.7	5346.7	5346.7	5346.7	5346.7	5346.7	5346.7	5346.7	5346.7
2.5°	5291.0	5321.4	5313.8	5301.1	5298.6	5303.6	5311.2	5318.8	5316.3	5329.0
5°	5275.8	5306.2	5303.6	5303.6	5313.8	5334.0	5346.7	5359.3	5346.7	5361.9
7.5°	5285.9	5308.7	5318.8	5329.0	5354.3	5392.3	5422.7	5450.5	5435.3	5453.1
10°	5415.1	5432.8	5442.9	5442.9	5460.7	5503.7	5534.1	5584.8	5572.1	5600.0
12.5°	5650.6	5668.3	5668.3	5658.2	5670.9	5698.7	5708.9	5764.6	5741.8	5787.4
15°	5939.4	5974.8	5946.9	5929.2	5934.3	5962.1	5959.6	6002.7	5979.9	6017.9
17.5°	6258.5	6304.1	6258.5	6255.9	6245.8	6276.2	6278.7	6316.7	6276.2	6304.1
20°	6635.9	6699.2	6661.2	6673.9	6651.1	6663.7	6676.4	6732.1	6668.8	6689.1
22.5°	7167.7	7243.7	7203.2	7251.3	7236.1	7226.0	7223.5	7322.2	7223.5	7231.1
25°	7942.8	8034.0	7963.0	8028.9	8028.9	8061.8	8099.8	8226.4	8061.8	8013.7
27.5°	9087.6	9178.8	9039.5	9080.0	9067.3	9148.4	9107.8	9421.9	9244.6	9166.1
30°	10465.4	10627.5	10364.1	10354.0	10341.3	10470.5	10528.7	10736.4	10556.6	10478.1
32.5°	11954.7	12124.4	11810.3	11719.1	11671.0	11749.5	11701.4	11868.6	11744.5	11622.9
35°	13530.1	13697.2	13398.4	13221.1	13028.6	12864.0	12691.7	12734.8	12618.3	12433.4
37.5°	15019.3	15325.8	15009.2	14819.3	14464.7	14143.0	13661.8	13461.7	13352.8	13183.1
40°	16536.5	16711.2	16470.6	16308.5	15923.5	15419.5	14649.6	14226.6	14079.7	13915.1
42.5°	17653.4	17820.6	17691.4	17580.0	17278.6	16693.5	15698.1	15168.8	14956.0	14771.1
45°	18539.9	18664.0	18583.0	18623.5	18494.3	17927.0	16784.7	16179.3	15959.0	15733.6
47.5°	18897.0	19028.7	19157.9	19398.5	19618.9	19200.9	17952.3	17273.5	17040.5	16810.0
50°	18856.5	18990.7	19365.6	19877.2	20561.0	20421.7	19183.2	18438.6	18223.3	17959.9
52.5°	18532.3	18684.3	19165.5	20016.5	21105.6	21336.1	20436.9	19641.6	19439.0	19125.0
55°	17681.3	17772.5	18494.3	19699.9	21234.8	21974.3	21665.3	20923.2	20720.6	20282.4
57.5°	16103.4	16235.1	17286.2	18846.4	20910.6	22407.4	22744.3	22270.7	22075.6	21445.0
60°	14044.2	14254.4	15457.5	17412.8	20084.9	22404.9	23724.5	23595.3	23433.2	22589.8
62.5°	11714.1	11957.2	13114.7	15386.6	18641.2	21769.2	24337.4	24704.7	24621.1	23646.0
65°	8996.4	9163.6	10316.0	12765.2	16394.6	20404.0	24408.3	25462.0	25477.2	24448.9
67.5°	5990.0	6471.2	7471.7	9578.9	13385.7	18172.6	23785.3	25586.1	25733.0	24724.9
70°	2922.8	3556.0	4536.2	6225.6	9578.9	14750.9	22156.7	24567.9	24894.6	23919.5
72.5°	1213.2	1418.4	1952.8	3072.3	5498.6	9953.8	18884.4	21807.2	22412.5	21194.2
75°	818.1	886.5	1117.0	1575.4	2504.9	4908.5	13618.7	16260.4	17235.5	16007.1
77.5°	630.7	673.7	813.0	1101.8	1489.3	1856.5	7289.3	9799.3	10303.3	9538.4
80°	496.4	529.3	607.9	802.9	1056.2	992.8	2484.6	4439.9	4731.2	3968.9
82.5°	430.6	443.2	435.6	544.5	701.6	580.0	815.6	1638.7	1808.4	1312.0
85°	311.5	347.0	362.2	336.9	372.3	293.8	334.3	580.0	638.3	569.9
87.5°	126.6	187.4	230.5	217.8	136.8	83.6	103.8	169.7	195.0	212.8
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°
5346.7	0°	5346.7	5346.7	5346.7	5346.7	5346.7	5346.7	5346.7	5346.7	5346.7	5346.7
5349.2	2.5°	5351.7	5369.5	5382.1	5397.3	5407.5	5422.7	5453.1	5470.8	5473.3	5486.0
5389.7	5°	5399.9	5425.2	5453.1	5493.6	5539.2	5577.2	5635.4	5675.9	5691.1	5703.8
5488.5	7.5°	5503.7	5539.2	5589.8	5660.7	5726.6	5777.3	5848.2	5896.3	5944.4	5962.1
5645.5	10°	5658.2	5708.9	5782.3	5878.6	5949.5	6015.3	6088.8	6129.3	6177.4	6197.7
5833.0	12.5°	5850.7	5903.9	6000.1	6134.4	6200.2	6245.8	6271.1	6261.0	6271.1	6288.9
6058.4	15°	6071.1	6129.3	6238.2	6382.6	6428.2	6387.7	6331.9	6281.3	6273.7	6278.7
6331.9	17.5°	6331.9	6375.0	6501.6	6623.2	6590.3	6423.1	6301.5	6220.5	6180.0	6167.3
6681.5	20°	6696.7	6696.7	6800.5	6876.5	6656.1	6372.5	6182.5	6050.8	5967.2	5931.8
7157.6	22.5°	7139.9	7099.4	7165.2	7112.0	6643.5	6230.6	5967.2	5739.3	5612.6	5562.0
7823.7	25°	7702.2	7654.0	7636.3	7307.0	6552.3	6005.2	5577.2	5301.1	5189.7	5161.8
8783.7	27.5°	8550.6	8429.1	8198.6	7413.4	6385.1	5650.6	5121.3	4865.5	4802.1	4804.7
10017.1	30°	9680.3	9437.1	8872.3	7431.2	6111.6	5149.1	4655.2	4472.9	4442.5	4455.1
11053.0	32.5°	10726.3	10495.8	9561.2	7350.1	5691.1	4657.8	4237.3	4115.8	4070.2	4085.4
11843.2	35°	11546.9	11483.6	10199.5	7236.1	5174.5	4196.8	3862.5	3758.6	3670.0	3649.7
12587.9	37.5°	12321.9	12296.6	10678.2	7076.6	4662.8	3870.1	3561.1	3424.3	3295.1	3224.2
13411.0	40°	13172.9	13147.6	10992.2	6830.9	4209.5	3586.4	3290.1	3110.2	2950.7	2821.5
14343.1	42.5°	14130.3	13980.9	11141.7	6478.8	3824.5	3345.8	3069.7	2826.6	2616.4	2497.3
15396.7	45°	15176.4	14839.5	11139.1	6030.5	3500.3	3125.4	2834.2	2489.7	2294.7	2183.2
16478.2	47.5°	16285.7	15660.1	11002.4	5534.1	3186.2	2882.3	2469.5	2206.0	2076.9	2008.5
17653.4	50°	17430.5	16427.6	10769.3	4964.2	2864.6	2606.2	2241.5	2061.7	1962.9	1899.6
18818.5	52.5°	18507.0	17124.1	10488.2	4318.4	2537.8	2337.7	2140.2	2000.9	1897.0	1826.1
19948.1	55°	19507.4	17724.3	10090.6	3657.3	2271.9	2157.9	2092.1	1975.6	1856.5	1772.9
21095.5	57.5°	20396.4	18114.4	9404.2	3036.8	2081.9	2033.8	2041.4	1932.5	1795.7	1724.8
22225.1	60°	21136.0	18400.6	8388.5	2461.9	1927.4	1912.2	1962.9	1851.5	1691.9	1610.8
23179.9	62.5°	21579.2	18395.5	7142.4	2016.1	1795.7	1800.8	1859.1	1750.1	1588.0	1512.1
23678.9	65°	21541.2	17944.7	5774.7	1724.8	1669.1	1674.2	1750.1	1638.7	1501.9	1456.3
23428.1	67.5°	20778.9	16845.5	4429.8	1534.9	1529.8	1552.6	1641.2	1562.7	1448.7	1443.7
21933.8	70°	18714.7	14563.4	3191.3	1382.9	1385.4	1418.4	1534.9	1514.6	1420.9	1431.0
18441.1	72.5°	15006.7	11103.7	2142.7	1223.3	1225.9	1279.1	1433.5	1476.6	1393.0	1527.3
13084.3	75°	9994.3	6924.6	1377.8	1053.6	1056.2	1124.6	1344.9	1403.2	1317.0	1522.2
6808.1	77.5°	4802.1	3112.8	997.9	886.5	886.5	949.8	1162.5	1256.3	1122.0	1182.8
2188.3	80°	1659.0	1170.1	785.2	714.2	699.0	742.1	980.2	1089.1	967.5	891.5
714.2	82.5°	653.5	607.9	630.7	554.7	504.0	531.9	762.4	899.1	711.7	643.3
402.7	85°	374.9	395.1	445.8	367.3	291.3	326.7	559.7	645.9	536.9	473.6
131.7	87.5°	101.3	139.3	205.2	190.0	131.7	139.3	265.9	357.1	309.0	238.1
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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<u>180°</u>
5346.7
5483.5
5701.3
5964.7
6207.8
6293.9
6296.5
6185.0
5924.2
5554.4
5166.9
4812.3
4498.2
4105.6
3664.9
3226.8
2834.2
2504.9
2178.2
1993.3
1876.8
1795.7
1740.0
1679.2
1575.4
1489.3
1453.8
1451.3
1428.5
1547.5
1534.9
1084.0
835.8
640.8
483.8
245.7
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