

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: P955283

Luminaire Tested: **GALN-SB8B-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955283
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-SB8B-740-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48819 lumens
Efficiency: N/A
Efficacy: 166.7 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

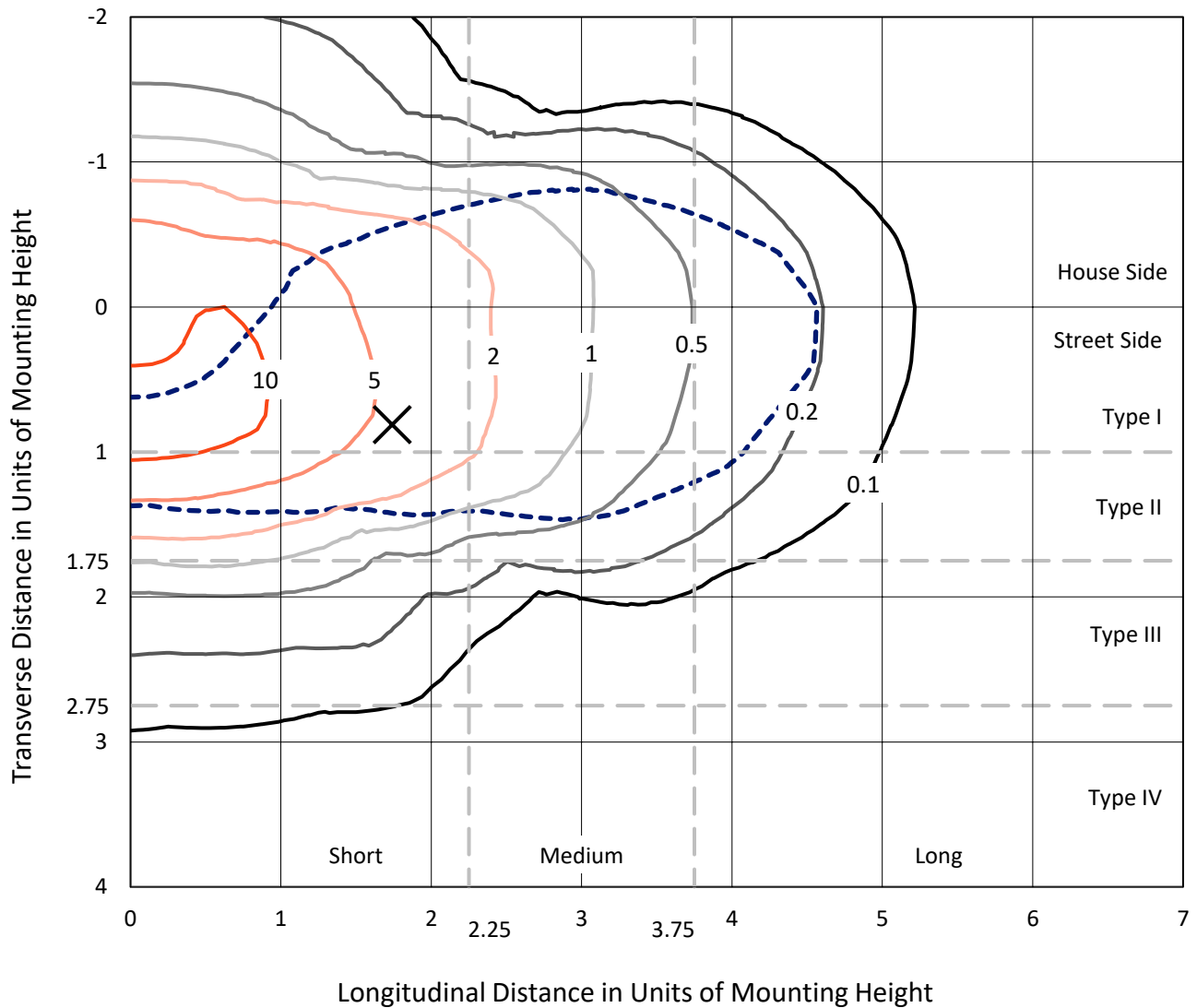
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

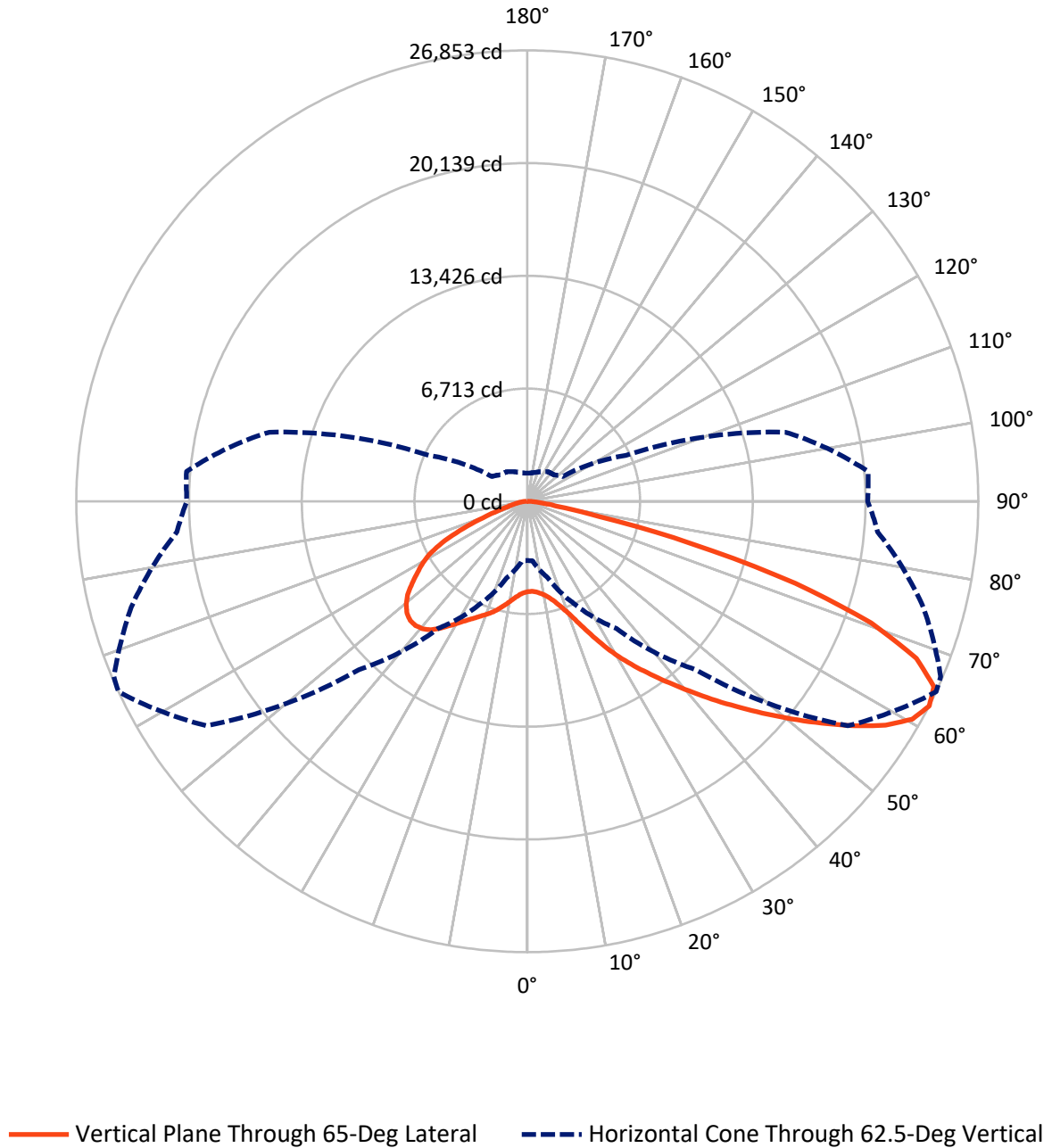
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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	15405.1	0.0	15405.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	33413.8	0.0	33413.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	48819.0	0.0	48819.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.3	1.1
10°-20°	1818.8	3.7
20°-30°	3687.8	7.6
30°-40°	6381.7	13.1
40°-50°	9657.4	19.8
50°-60°	11322.7	23.2
60°-70°	9492.7	19.4
70°-80°	5240.8	10.7
80°-90°	680.7	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°	48819.0	100.0
0°-180°	48819.0	100.0



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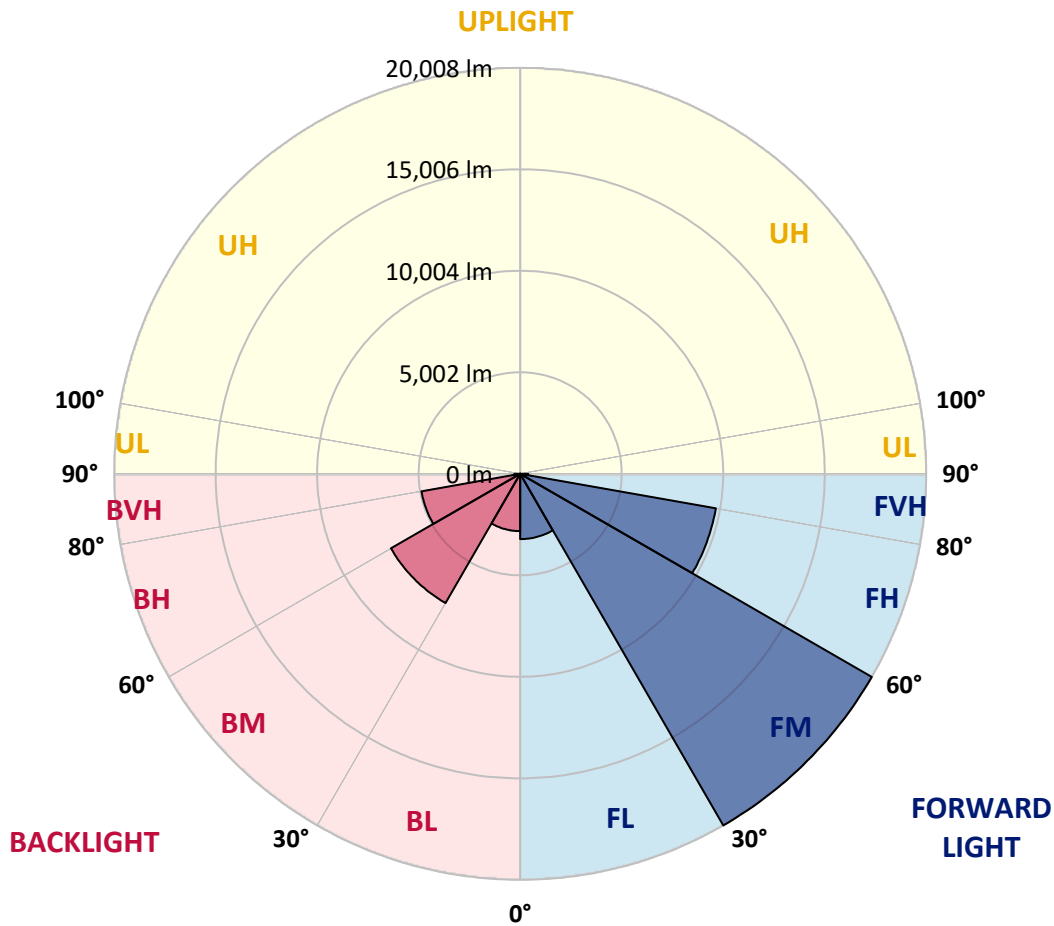
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3217.8	6.6			
FM (30°-60°)	20007.6	41.0			
FH (60°-80°)	9791.7	20.1			G4/12000
FVH (80°-90°)	396.8	0.8			G3/500
BL (0°-30°)	2825.1	5.8	B4/5000		
BM (30°-60°)	7354.2	15.1	B4/8500		
BH (60°-80°)	4941.8	10.1	B4/5000		G4/5000
BVH (80°-90°)	284.0	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°	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6
2.5°	5344.2	5329.0	5341.7	5341.7	5346.7	5344.2	5361.9	5367.0	5374.6	5389.8
5°	5291.0	5288.5	5311.3	5331.5	5351.8	5369.5	5392.3	5425.2	5430.3	5448.0
7.5°	5273.3	5258.1	5293.5	5318.9	5367.0	5410.0	5470.8	5526.5	5549.3	5556.9
10°	5410.0	5384.7	5417.6	5432.8	5473.4	5516.4	5587.3	5676.0	5701.3	5731.7
12.5°	5643.1	5615.2	5663.3	5686.1	5724.1	5762.1	5810.2	5896.3	5909.0	5964.7
15°	5962.2	5929.3	5959.7	5987.5	6050.8	6086.3	6134.4	6218.0	6218.0	6261.1
17.5°	6395.3	6352.2	6375.0	6385.2	6425.7	6478.9	6559.9	6633.4	6671.4	6656.2
20°	7041.2	6988.0	6988.0	6937.3	6922.1	6965.2	7071.5	7172.9	7213.4	7134.9
22.5°	8011.2	7935.2	7892.2	7719.9	7651.6	7656.6	7763.0	7887.1	7920.0	7780.7
25°	9244.7	9125.6	9067.4	8814.1	8659.6	8525.4	8608.9	8768.5	8814.1	8641.9
27.5°	10478.1	10485.7	10430.0	10126.1	9870.3	9624.6	9581.5	9748.7	9796.8	9601.8
30°	12208.0	12028.2	11921.8	11557.1	11192.4	10847.9	10670.6	10739.0	10751.7	10518.7
32.5°	13699.9	13654.3	13426.3	13107.2	12638.6	12099.1	11802.8	11693.9	11673.6	11341.8
35°	15399.4	15374.0	15133.4	14753.5	14246.9	13497.2	12962.8	12651.3	12625.9	12159.9
37.5°	17126.7	17126.7	16891.2	16475.8	15951.5	15014.4	14201.3	13707.4	13626.4	13018.5
40°	18504.6	18421.0	18464.0	18289.3	17689.0	16693.6	15576.6	14859.9	14751.0	14021.5
42.5°	19287.2	19259.3	19517.7	19712.7	19467.0	18671.7	17091.3	16108.5	15956.6	15125.8
45°	19461.9	19431.6	19892.5	20606.8	20951.2	20624.5	18737.6	17423.0	17238.2	16280.8
47.5°	19059.2	18998.4	19674.7	20801.8	21906.1	22481.0	20520.6	18849.0	18580.5	17405.3
50°	17848.6	17790.3	18813.6	20310.4	22227.7	23742.4	22455.7	20361.1	19950.8	18610.9
52.5°	15217.0	15244.9	16848.1	18904.7	21804.8	24527.5	24122.3	21954.2	21460.3	19844.4
55°	11853.4	11914.2	13884.7	16149.1	20112.9	24408.5	25259.5	23595.5	23104.1	21004.4
57.5°	8487.4	8755.8	10602.3	12843.8	16863.3	22521.6	25507.7	25155.7	24679.5	22270.8
60°	5501.2	5549.3	7448.9	9708.2	12841.2	19168.1	25003.7	26338.5	25966.1	23562.5
62.5°	3525.6	3558.6	4716.1	6790.4	9242.1	14181.1	23306.7	26852.6	26738.6	24416.1
65°	2591.0	2565.7	3168.5	4488.1	6225.6	8745.7	20011.6	26604.4	26829.8	24950.5
67.5°	2163.0	2127.5	2423.9	3107.7	4586.9	4966.8	14806.7	24991.0	25816.7	24889.7
70°	1970.5	1940.1	2119.9	2307.4	3578.8	3325.6	7464.1	21726.3	22997.7	24198.3
72.5°	1669.1	1615.9	1861.6	2049.0	2783.5	2550.5	3084.9	16688.5	18238.6	21982.1
75°	1294.3	1258.8	1469.0	1803.3	2092.1	1990.8	1950.2	10133.7	11825.6	17000.1
77.5°	1025.8	977.7	1170.1	1405.7	1881.9	1501.9	1420.9	4364.0	6040.7	10853.0
80°	772.5	729.4	889.0	1111.9	1446.2	1132.2	919.4	1780.6	2277.0	5498.7
82.5°	549.6	511.6	620.5	815.6	972.6	1015.6	564.8	997.9	1122.0	2119.9
85°	352.1	329.3	415.4	511.6	618.0	653.5	344.5	521.8	572.4	873.8
87.5°	192.5	157.0	222.9	238.1	286.2	260.9	164.6	190.0	205.2	316.6
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°
5379.6	0°	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6	5379.6
5389.8	2.5°	5399.9	5407.5	5432.8	5440.4	5458.2	5481.0	5496.2	5511.3	5511.3	5526.5
5470.8	5°	5473.4	5491.1	5544.3	5572.1	5617.7	5663.3	5691.2	5724.1	5744.4	5754.5
5600.0	7.5°	5615.2	5643.1	5719.0	5767.2	5845.7	5909.0	5952.1	5997.6	6007.8	6035.6
5779.8	10°	5807.7	5840.6	5926.7	6017.9	6111.6	6190.1	6230.7	6263.6	6276.2	6281.3
6010.3	12.5°	6028.0	6076.2	6187.6	6299.0	6397.8	6466.2	6476.3	6468.7	6433.3	6402.9
6294.0	15°	6299.0	6342.1	6466.2	6587.8	6684.0	6696.7	6633.4	6592.8	6549.8	6542.2
6610.6	17.5°	6623.2	6646.0	6760.0	6879.1	6886.7	6843.6	6749.9	6711.9	6671.4	6643.5
7023.4	20°	7000.6	6993.0	7074.1	7124.7	7071.5	6939.8	6798.0	6734.7	6694.2	6661.2
7530.0	22.5°	7451.5	7393.2	7383.1	7370.4	7228.6	6952.5	6760.0	6679.0	6615.6	6570.1
8236.6	25°	8107.5	7884.6	7730.1	7644.0	7324.8	6884.1	6638.4	6458.6	6339.6	6261.1
9100.3	27.5°	8928.1	8553.2	8163.2	7953.0	7324.8	6744.8	6344.6	6053.4	5858.3	5777.3
9936.1	30°	9710.7	9318.1	8743.2	8325.3	7307.1	6516.9	5871.0	5465.8	5237.8	5156.8
10650.4	32.5°	10379.4	9951.3	9358.7	8733.1	7264.0	6147.1	5283.4	4835.1	4614.7	4518.5
11357.0	35°	10999.9	10544.0	9976.7	9181.4	7150.1	5605.1	4637.5	4295.6	4049.9	3895.4
12076.3	37.5°	11635.6	11093.6	10561.7	9586.6	6944.9	4971.9	4141.1	3849.8	3561.1	3353.4
12841.2	40°	12327.1	11678.7	11187.3	9827.2	6608.0	4369.1	3756.1	3490.2	3183.7	2963.4
13722.6	42.5°	13135.0	12380.3	11883.8	9951.3	6147.1	3941.0	3505.4	3244.5	2955.8	2775.9
14667.4	45°	13978.5	13152.8	12519.6	9948.8	5632.9	3740.9	3424.3	3166.0	2846.9	2659.4
15637.4	47.5°	14862.4	13960.7	13069.2	9786.7	5187.2	3768.8	3378.7	2996.3	2644.2	2461.9
16617.6	50°	15748.9	14844.7	13601.1	9482.8	4997.2	3708.0	3209.0	2758.2	2342.8	2178.2
17537.0	52.5°	16627.8	15784.3	14059.5	9049.7	4804.7	3482.6	2991.2	2449.2	2218.7	2104.7
18486.8	55°	17511.7	16713.9	14558.5	8419.0	4323.5	3219.2	2626.5	2332.7	2119.9	2016.1
19416.4	57.5°	18398.2	17787.8	15032.1	7788.3	3718.1	2895.0	2426.4	2190.9	2021.2	1932.5
20193.9	60°	19320.1	19016.2	15520.9	7208.3	3120.4	2479.6	2279.5	2076.9	1904.7	1805.9
20941.1	62.5°	20269.9	20368.7	15903.4	6461.1	2570.8	2226.3	2147.8	1940.1	1773.0	1679.2
21559.1	65°	21227.3	21673.1	16154.1	5425.2	2084.5	1985.7	2006.0	1790.7	1621.0	1539.9
22012.5	67.5°	21949.1	22612.7	16083.2	4105.6	1709.6	1757.8	1828.7	1633.6	1474.1	1410.8
21939.0	70°	22030.2	22501.3	15384.2	2811.4	1431.0	1534.9	1631.1	1479.1	1314.5	1268.9
20905.6	72.5°	20951.2	20981.6	13436.4	1836.3	1210.7	1347.4	1423.4	1322.1	1162.5	1117.0
18289.3	75°	18122.1	17352.1	9865.2	1210.7	1013.1	1157.5	1228.4	1157.5	1003.0	1013.1
13684.7	77.5°	13730.2	12289.1	5990.0	861.1	846.0	972.6	1068.8	1018.2	886.5	995.4
6881.6	80°	7074.1	6648.6	2672.1	643.3	668.7	777.6	878.9	813.0	701.6	668.7
1537.4	82.5°	1621.0	1884.4	1053.6	461.0	483.8	559.7	671.2	610.4	504.0	425.5
640.8	85°	567.3	620.5	466.0	288.7	283.7	349.5	455.9	407.8	341.9	273.5
271.0	87.5°	179.8	235.5	174.8	116.5	121.6	157.0	210.2	192.5	159.6	103.8
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°
5379.6
5526.5
5759.6
6025.5
6268.7
6402.9
6542.2
6646.0
6663.8
6585.2
6291.4
5817.8
5204.9
4566.6
3946.1
3409.1
3006.4
2811.4
2689.8
2487.2
2188.3
2104.7
2006.0
1917.3
1798.3
1676.7
1537.4
1413.3
1271.5
1114.4
977.7
876.3
610.4
420.4
288.7
108.9
0.0

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