

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: P955890

Luminaire Tested: **GALN-SB8C-950-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955890  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-950-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

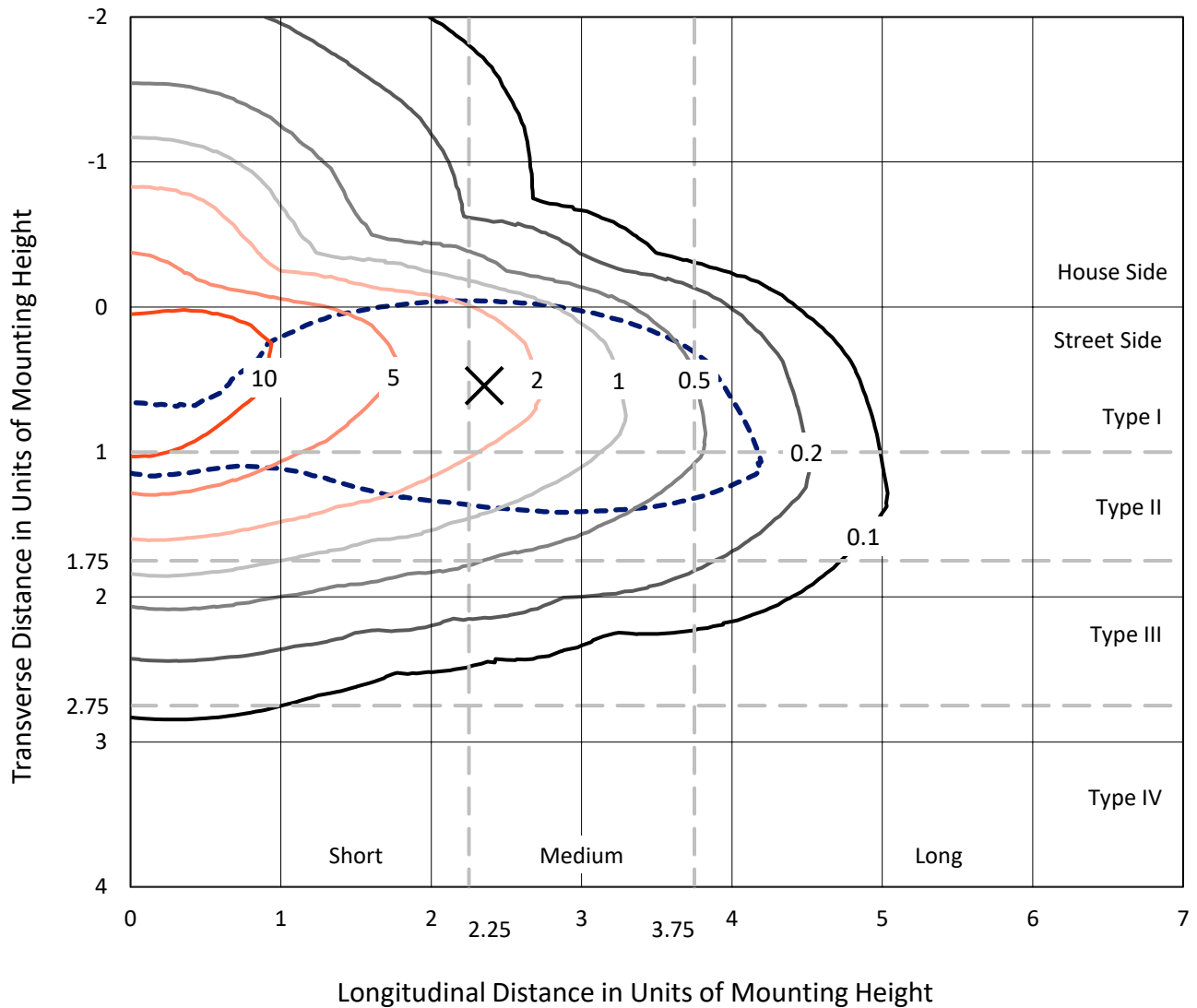
Lumens per Lamp: N/A  
Luminaire Lumens: 42909 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

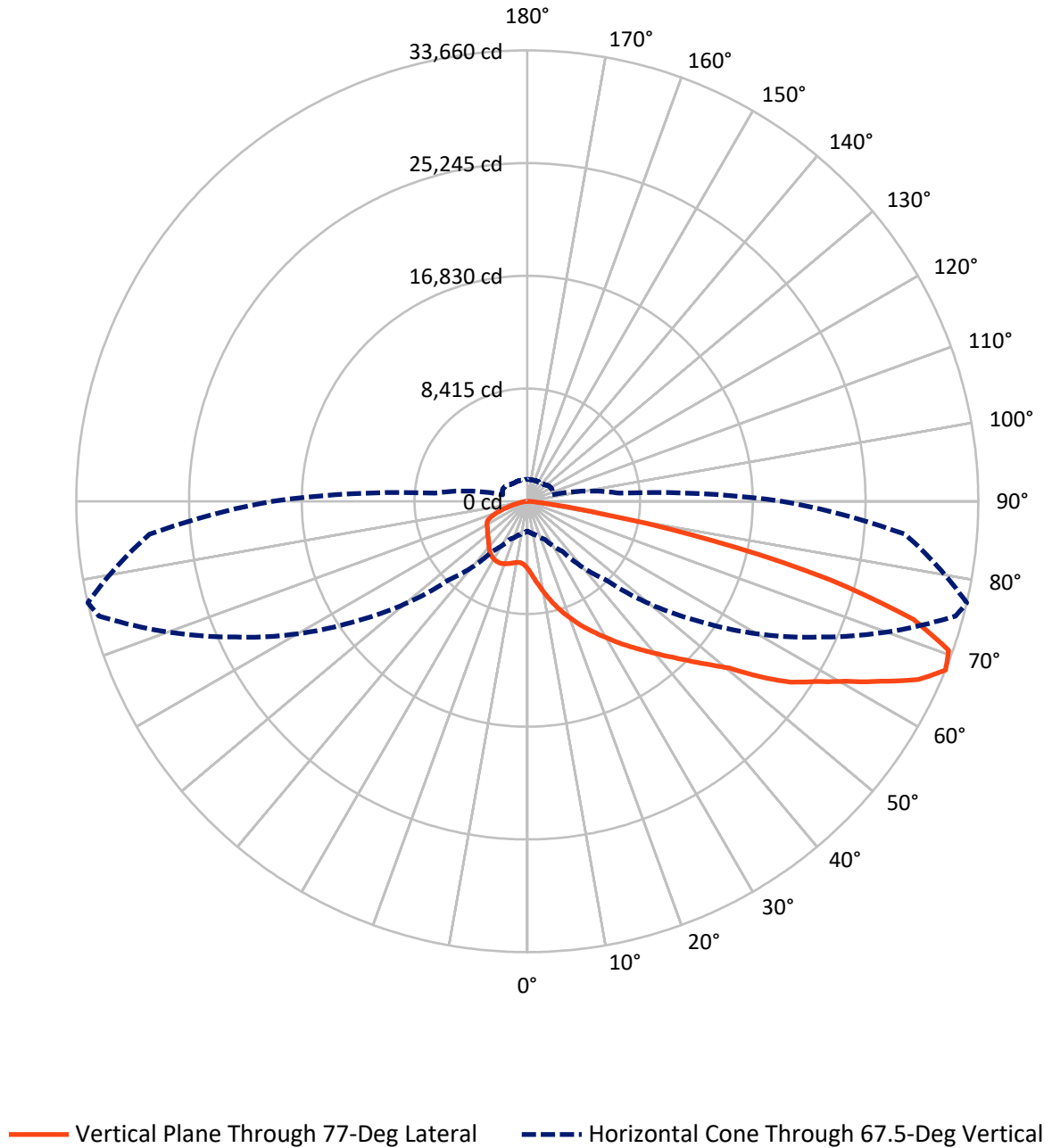
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc  
 Type II - 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	8116.7	0.0	8116.7
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	34792.3	0.0	34792.3
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	42909.0	0.0	42909.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	539.6	1.3
10°-20°	1938.7	4.5
20°-30°	3660.4	8.5
30°-40°	5896.9	13.7
40°-50°	8065.9	18.8
50°-60°	9098.4	21.2
60°-70°	8492.2	19.8
70°-80°	4655.2	10.8
80°-90°	561.5	1.3
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°	42909.0	100.0
0°-180°	42909.0	100.0



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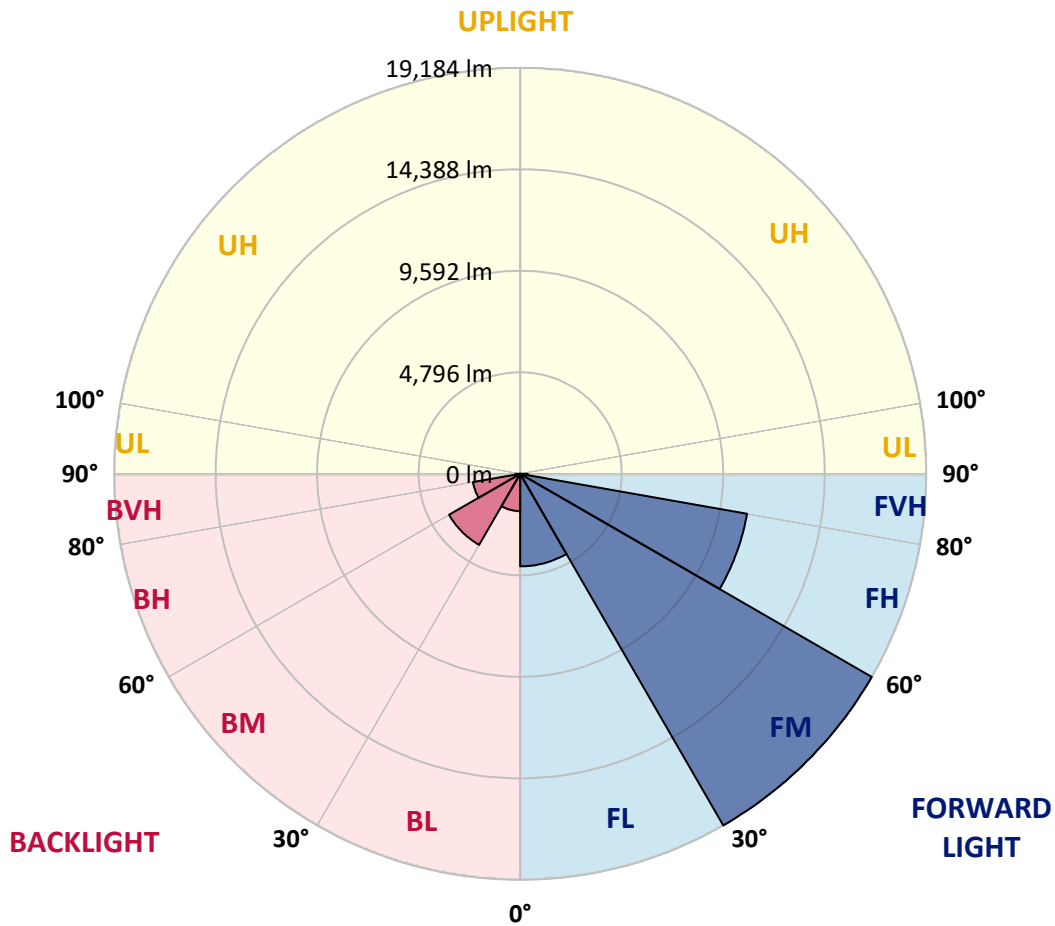
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4374.0	10.2			
FM (30°-60°)	19184.1	44.7			
FH (60°-80°)	10883.0	25.4			G4/12000
FVH (80°-90°)	351.2	0.8			G3/500
BL (0°-30°)	1764.8	4.1	B3/2500		
BM (30°-60°)	3877.1	9.0	B3/5000		
BH (60°-80°)	2264.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	210.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6
2.5°	6303.7	6348.0	6292.6	6292.6	6106.6	6009.1	5823.1	5681.3	5426.6	5382.3
5°	7451.1	7506.4	7428.9	7395.7	7176.4	6974.8	6662.5	6354.7	5900.6	5854.1
7.5°	8339.2	8410.1	8341.5	8306.0	8111.1	7885.2	7519.7	7090.0	6449.9	6359.1
10°	9063.5	9074.6	9052.5	9065.7	8912.9	8726.9	8352.5	7852.0	7052.4	6928.3
12.5°	9473.3	9524.2	9568.5	9648.3	9621.7	9506.5	9169.9	8571.8	7690.3	7530.8
15°	9666.0	9754.6	9854.3	10038.1	10186.5	10215.3	9958.4	9344.8	8339.2	8146.5
17.5°	9734.7	9818.8	9976.1	10241.9	10560.8	10775.7	10660.5	10095.7	8981.6	8760.1
20°	10082.4	10106.8	10202.0	10454.5	10800.0	11156.7	11243.0	10817.8	9617.3	9367.0
22.5°	10826.6	10777.9	10804.5	10919.7	11167.7	11513.3	11710.4	11455.7	10270.7	9982.7
25°	12055.9	11914.2	11772.4	11639.5	11765.8	11960.7	12184.4	12093.6	10955.1	10589.6
27.5°	13608.6	13435.8	13123.5	12687.2	12534.3	12603.0	12702.7	12685.0	11588.6	11218.7
30°	15136.9	14935.3	14563.2	13932.0	13528.9	13347.2	13271.9	13221.0	12277.4	11883.2
32.5°	16357.3	16197.9	15832.4	15125.8	14541.1	14231.0	13980.7	13799.1	12997.3	12603.0
35°	17424.9	17276.5	16857.9	16087.1	15451.4	15121.4	14793.6	14406.0	13745.9	13347.2
37.5°	18399.5	18251.1	17677.4	16875.6	16235.5	16007.4	15715.0	15057.2	14496.8	14120.2
40°	19015.3	18982.0	18446.0	17537.9	16873.4	16760.5	16663.0	15812.5	15329.6	14979.6
42.5°	19172.5	19245.6	18820.3	18073.9	17440.4	17349.6	17577.8	16667.4	16264.3	15929.8
45°	18793.8	19004.2	18725.1	18217.9	17843.6	17794.8	18388.4	17602.1	17298.7	16993.0
47.5°	17834.7	18191.3	18076.1	18005.2	17952.1	18162.5	19101.6	18594.4	18470.4	18204.6
50°	15898.8	16574.4	16776.0	17223.4	17737.2	18448.2	19750.6	19677.5	19839.2	19571.2
52.5°	12552.1	13482.3	14651.8	15772.6	17077.2	18353.0	20463.8	21232.4	21914.6	21768.4
55°	10361.5	10780.1	11679.4	13734.8	15797.0	17952.1	20785.0	22488.3	23974.5	23843.8
57.5°	8678.1	9052.5	9606.2	11322.8	13861.1	17041.7	20984.3	23254.7	25385.4	25372.1
60°	6873.0	7269.4	7836.5	9052.5	11599.6	15469.1	20940.0	24127.3	27186.2	27296.9
62.5°	4835.2	5271.6	5900.6	7034.6	9289.5	13431.4	20036.3	24758.6	29305.9	29607.1
65°	3178.4	3466.4	3940.4	4919.4	6921.7	10811.1	18310.9	24840.6	31574.0	32083.4
67.5°	2228.2	2339.0	2618.1	3149.6	4562.8	8290.5	15562.2	23992.2	33086.8	33660.4
70°	1738.7	1794.1	1935.9	2148.5	2866.1	5575.0	11925.2	21786.2	32763.4	33361.4
72.5°	1501.7	1554.9	1608.0	1634.6	1922.6	3442.0	8077.9	18215.7	29717.9	30123.2
75°	1362.2	1375.5	1419.8	1410.9	1466.3	2232.7	4662.4	13271.9	23447.4	23307.8
77.5°	1145.1	1162.8	1235.9	1224.9	1302.4	1526.1	2420.9	8565.2	15201.1	14253.1
80°	970.1	979.0	1058.7	1045.5	1131.8	1105.3	1235.9	4365.6	6447.7	5462.0
82.5°	336.7	416.4	808.5	832.8	863.8	668.9	713.2	1780.8	1969.1	1508.4
85°	163.9	175.0	412.0	584.7	582.5	336.7	347.7	635.7	620.2	487.3
87.5°	26.6	33.2	48.7	228.1	181.6	88.6	119.6	124.0	128.5	110.7
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°
5034.6	0°	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6
5214.0	2.5°	5089.9	4979.2	4746.6	4531.8	4363.4	4201.7	4110.9	4033.4	3989.1	3980.2
5457.6	5°	5227.3	4999.1	4576.1	4219.5	3986.9	3814.1	3723.3	3665.7	3636.9	3619.2
5785.4	7.5°	5424.4	5089.9	4487.5	4082.1	3838.5	3714.5	3667.9	3659.1	3656.9	3659.1
6181.9	10°	5696.8	5238.3	4478.6	4048.9	3845.1	3776.5	3774.3	3776.5	3785.3	3787.5
6613.8	12.5°	5991.4	5391.2	4514.0	4077.7	3929.3	3891.6	3885.0	3882.8	3889.4	3893.9
7050.2	15°	6312.6	5592.7	4573.9	4139.7	4022.3	3982.5	3975.8	3962.5	3960.3	3958.1
7508.6	17.5°	6642.6	5792.1	4640.3	4206.2	4082.1	4026.8	4002.4	3971.4	3947.0	3940.4
7982.6	20°	6977.1	5989.2	4686.8	4239.4	4086.6	4009.0	3960.3	3907.2	3865.1	3840.7
8461.1	22.5°	7333.7	6195.2	4715.6	4230.5	4046.7	3940.4	3851.8	3789.8	3725.5	3683.4
8943.9	25°	7681.4	6374.6	4713.4	4184.0	3969.2	3834.1	3721.1	3641.4	3552.8	3508.5
9442.3	27.5°	8015.9	6536.3	4658.0	4102.1	3858.4	3707.8	3572.7	3477.5	3391.1	3349.0
9945.1	30°	8361.4	6671.4	4571.6	3982.5	3727.7	3561.6	3413.2	3331.3	3253.7	3213.9
10476.7	32.5°	8704.7	6795.4	4449.8	3834.1	3577.1	3417.7	3271.5	3196.2	3149.6	3149.6
11048.1	35°	9068.0	6881.8	4288.1	3661.3	3417.7	3264.8	3149.6	3105.3	3100.9	3074.3
11652.8	37.5°	9451.1	6937.2	4091.0	3484.1	3260.4	3116.4	3081.0	3027.8	2983.5	2925.9
12317.3	40°	9854.3	6992.6	3854.0	3300.3	3094.3	3014.5	2999.0	2928.2	2801.9	2660.1
13070.4	42.5°	10343.8	7030.2	3608.1	3116.4	2919.3	2892.7	2914.9	2793.0	2591.5	2485.2
13978.5	45°	10910.8	7092.2	3382.2	2934.8	2739.9	2739.9	2832.9	2673.4	2507.3	2440.9
15015.1	47.5°	11646.2	7236.2	3171.8	2735.5	2573.8	2618.1	2651.3	2529.5	2436.4	2354.5
16277.6	50°	12709.3	7581.7	2954.7	2533.9	2447.5	2536.1	2489.6	2418.7	2310.2	2243.7
18284.3	52.5°	14029.4	7785.5	2762.0	2352.3	2339.0	2427.6	2361.1	2294.7	2212.7	2124.1
19806.0	55°	14928.7	7823.2	2600.3	2219.4	2265.9	2257.0	2232.7	2172.9	2128.6	2011.2
21307.7	57.5°	15934.3	7898.5	2467.4	2139.6	2219.4	2121.9	2113.1	2062.1	2004.5	1924.8
23139.5	60°	17137.0	8015.9	2352.3	2108.6	2179.5	2033.3	1989.0	1969.1	1911.5	1871.6
25343.3	62.5°	18448.2	8122.2	2234.9	2113.1	2133.0	1946.9	1880.5	1873.8	1838.4	1825.1
27412.1	65°	19343.1	7832.0	2088.7	2108.6	2059.9	1858.3	1774.2	1772.0	1743.2	1738.7
28309.1	67.5°	19030.8	6912.8	1891.6	2046.6	1984.6	1769.7	1676.7	1667.8	1630.2	1632.4
27372.2	70°	17467.0	5601.6	1619.1	1893.8	1891.6	1690.0	1574.8	1546.0	1495.1	1503.9
23799.5	72.5°	14534.4	4150.8	1253.7	1639.1	1743.2	1616.9	1457.4	1410.9	1346.7	1355.5
17568.9	75°	10496.6	2821.8	912.6	1247.0	1517.2	1530.5	1342.3	1262.5	1185.0	1198.3
9779.0	77.5°	5371.2	1599.2	671.1	859.4	1191.6	1391.0	1238.2	1131.8	1114.1	1238.2
2819.6	80°	1752.0	801.8	465.1	602.5	781.9	1138.5	1085.3	963.5	959.1	987.9
591.4	82.5°	522.7	338.9	299.0	396.5	431.9	872.7	936.9	728.7	626.8	660.1
197.1	85°	179.4	163.9	170.6	197.1	206.0	511.7	655.6	482.9	456.3	502.8
44.3	87.5°	42.1	57.6	48.7	44.3	44.3	124.0	254.7	201.6	279.1	186.1
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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180°  
5034.6  
3980.2  
3617.0  
3665.7  
3789.8  
3896.1  
3955.9  
3947.0  
3849.6  
3685.7  
3508.5  
3346.8  
3211.7  
3151.9  
3067.7  
2917.1  
2640.2  
2487.4  
2451.9  
2352.3  
2237.1  
2106.4  
2013.4  
1898.2  
1882.7  
1825.1  
1736.5  
*1632.4*  
1512.8  
1353.3  
1202.7  
1220.4  
848.3  
682.2  
496.1  
179.4  
0.0

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