

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: P956084

Luminaire Tested: **GALN-SB8D-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56953 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

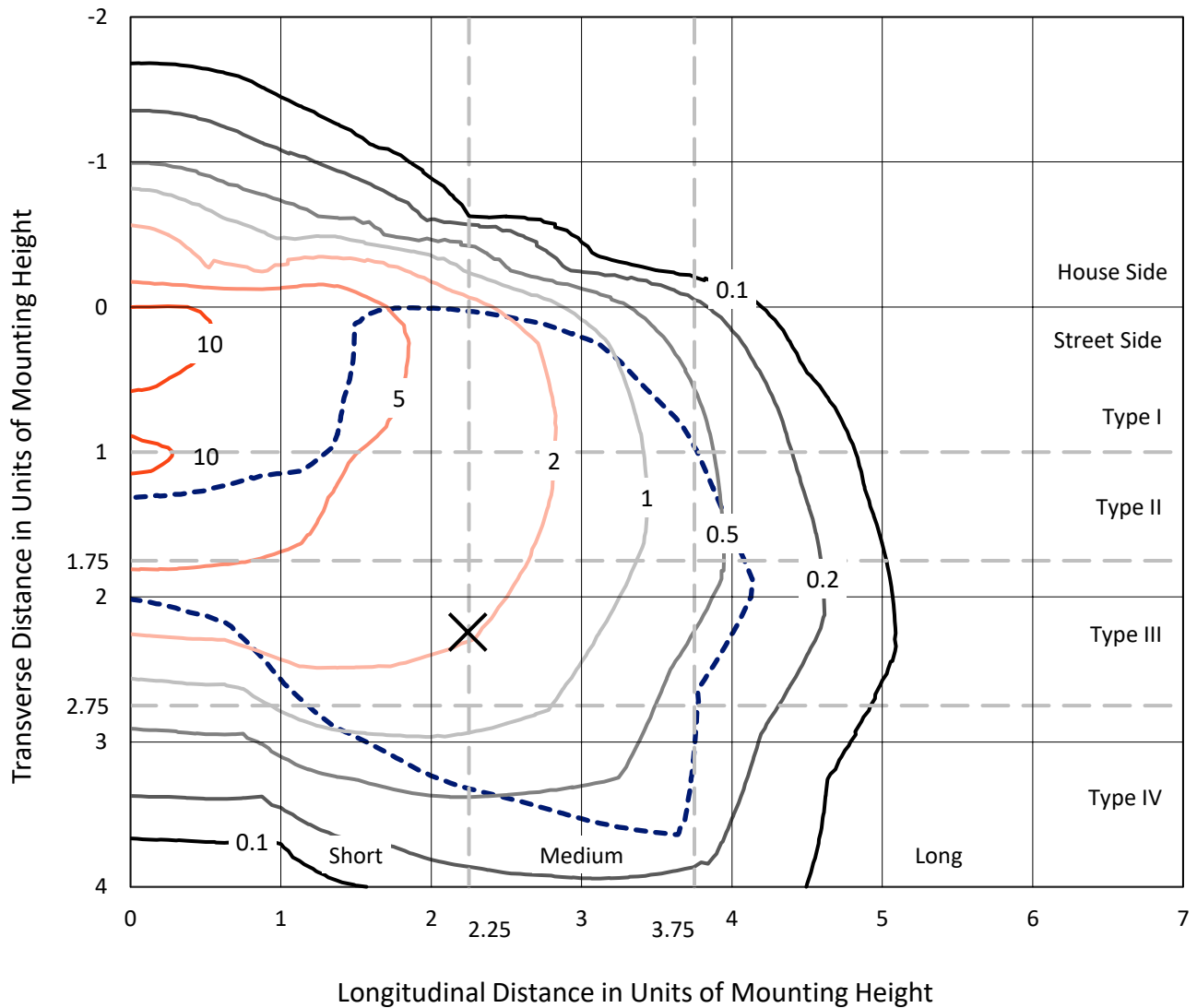
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

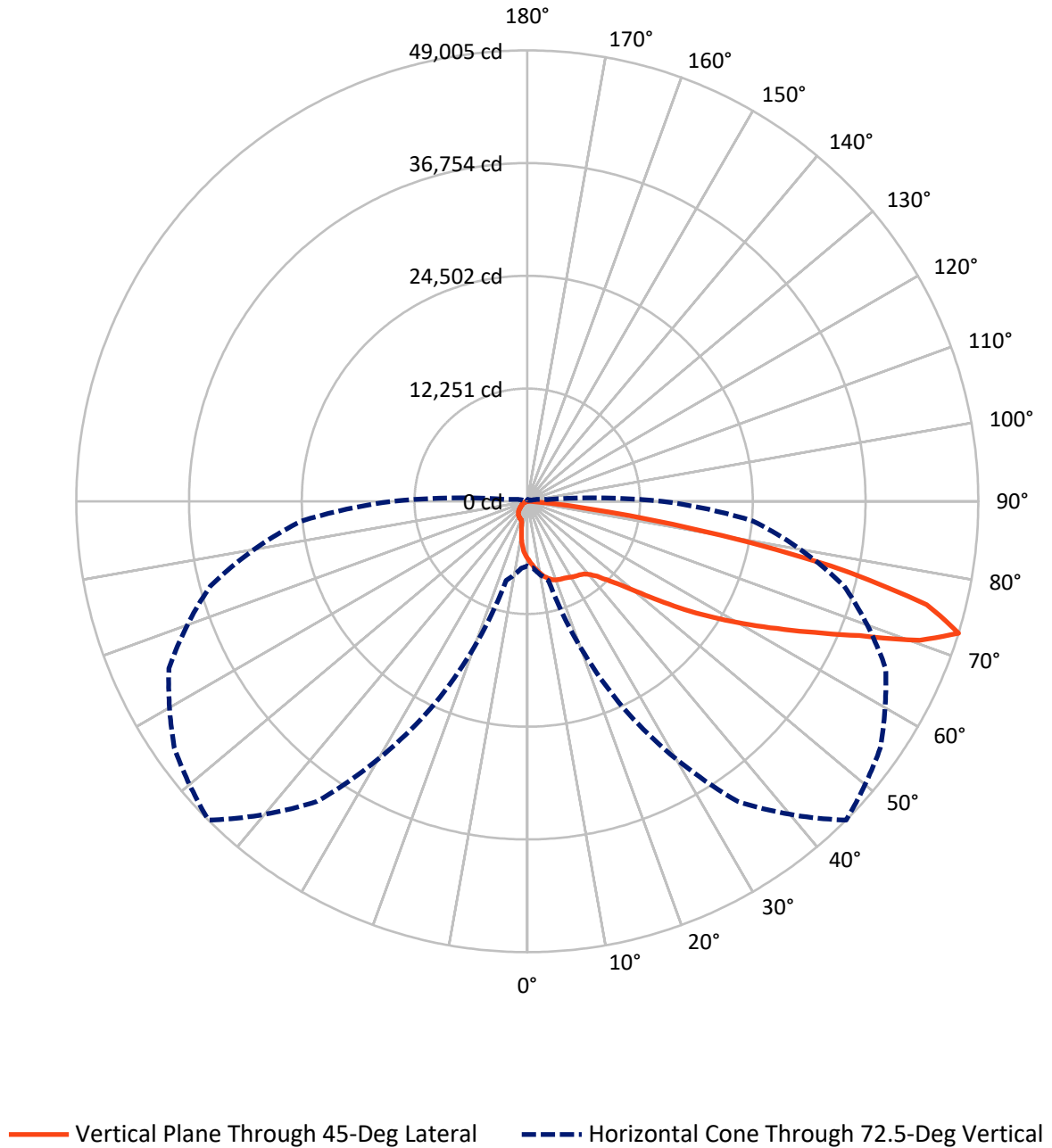
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5984.2	0.0	5984.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	50968.8	0.0	50968.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	56953.0	0.0	56953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.9	1.0
10°-20°	1718.1	3.0
20°-30°	2821.4	5.0
30°-40°	4001.4	7.0
40°-50°	6613.9	11.6
50°-60°	11881.1	20.9
60°-70°	16497.5	29.0
70°-80°	11966.7	21.0
80°-90°	865.1	1.5
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°	56953.0	100.0
0°-180°	56953.0	100.0

Coefficient of Utilization



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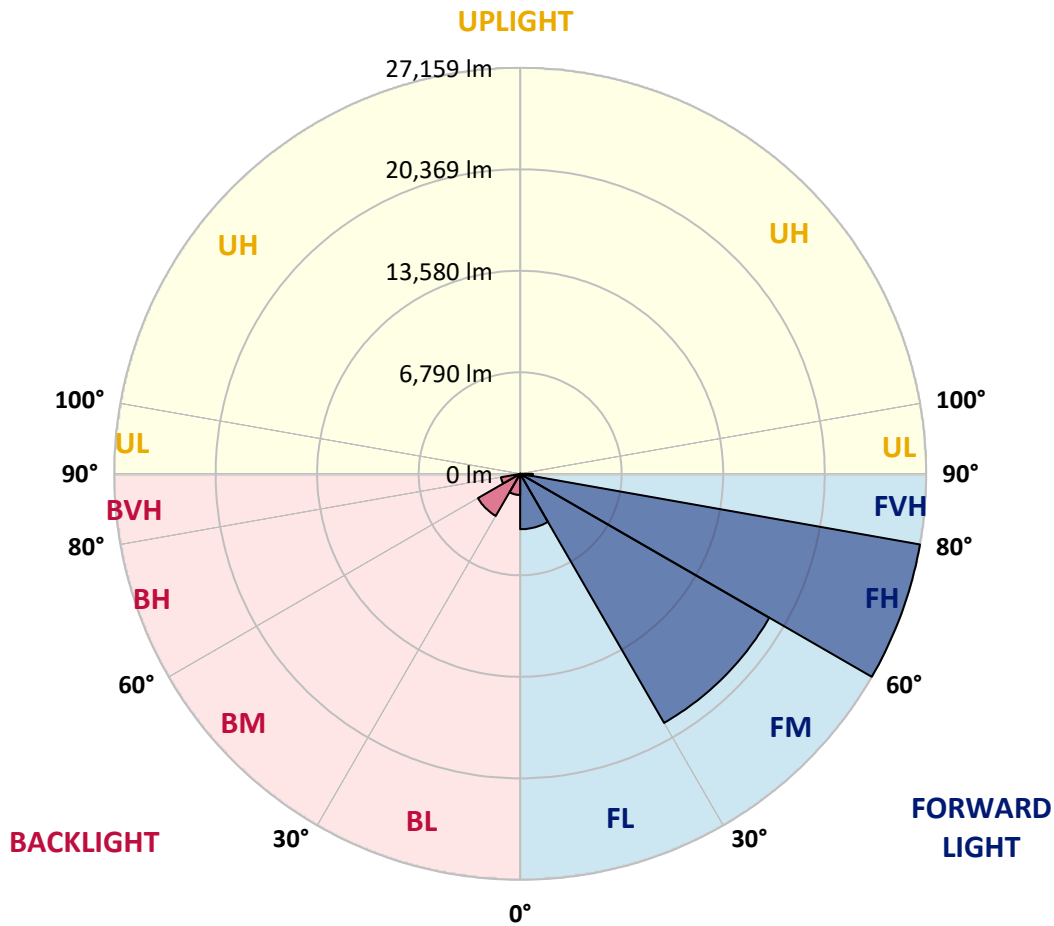
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3709.9	6.5			
FM (30°-60°)	19241.7	33.8			
FH (60°-80°)	27159.3	47.7			G5
FVH (80°-90°)	857.9	1.5			G5
BL (0°-30°)	1417.4	2.5	B3/2500		
BM (30°-60°)	3254.5	5.7	B3/5000		
BH (60°-80°)	1305.0	2.3	B3/2500		G3/2500
BVH (80°-90°)	7.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	6239.3	6239.3	6239.3	6239.3	6239.3	6239.3	6239.3	6239.3	6239.3	6239.3
2.5°	6814.7	6826.3	6818.5	6771.9	6694.2	6651.4	6628.1	6550.3	6499.8	6410.4
5°	7440.5	7487.2	7460.0	7366.7	7219.0	7114.0	7082.9	6923.5	6779.7	6612.5
7.5°	8105.3	8128.6	8078.1	7957.6	7759.3	7580.5	7553.3	7331.7	7102.3	6845.8
10°	8680.6	8707.8	8630.1	8455.2	8229.7	8008.1	7969.2	7724.3	7452.2	7137.3
12.5°	9162.7	9189.9	9088.8	8878.9	8630.1	8400.7	8361.9	8105.3	7806.0	7456.1
15°	9528.1	9578.6	9442.6	9217.1	8948.9	8719.5	8700.1	8447.4	8155.8	7767.1
17.5°	9741.9	9792.4	9664.1	9392.0	9162.7	8968.3	8945.0	8735.1	8462.9	8089.7
20°	9776.9	9823.5	9687.5	9450.3	9259.9	9104.4	9092.7	8941.1	8742.8	8385.2
22.5°	9671.9	9730.2	9605.8	9415.4	9283.2	9201.5	9186.0	9100.5	8987.7	8684.5
25°	9563.1	9609.7	9516.4	9349.3	9279.3	9271.5	9283.2	9267.6	9244.3	8987.7
27.5°	9555.3	9605.8	9500.9	9341.5	9302.6	9384.3	9395.9	9469.8	9489.2	9263.7
30°	9621.4	9656.4	9555.3	9388.1	9368.7	9555.3	9559.2	9691.4	9722.5	9497.0
32.5°	9765.2	9804.1	9703.0	9458.1	9430.9	9691.4	9703.0	9878.0	9928.5	9745.8
35°	10103.4	10150.1	10033.5	9652.5	9555.3	9819.6	9854.6	10060.7	10161.7	10010.1
37.5°	10947.0	10810.9	10651.6	10045.1	9839.1	10021.8	10080.1	10321.1	10499.9	10325.0
40°	13042.3	12614.7	12117.1	10713.8	10336.7	10453.3	10499.9	10741.0	10985.9	10814.8
42.5°	16187.3	15681.9	14881.1	12253.2	11086.9	11145.3	11180.2	11390.2	11736.1	11600.1
45°	18990.1	18807.4	17991.0	14881.1	12490.3	12202.6	12245.4	12354.2	12863.5	12813.0
47.5°	21143.7	21038.8	20409.0	17897.7	14861.6	13497.2	13617.7	13668.2	14402.9	14581.7
50°	22799.8	22760.9	22197.2	20580.0	17959.9	15405.9	15448.6	15339.8	16439.9	16883.1
52.5°	24362.5	24494.7	24078.7	23071.9	21268.1	17905.5	17897.7	17384.6	18869.6	19538.2
55°	25773.6	25820.3	25863.1	25614.3	24595.8	20751.1	20677.2	19837.5	21688.0	22379.9
57.5°	27099.3	27118.7	27499.7	28008.9	28059.5	23806.6	23670.6	22663.7	24766.8	25260.5
60°	27989.5	28078.9	28883.6	30298.6	30916.7	26959.3	26885.5	25859.2	27900.1	28129.4
62.5°	26706.6	27250.9	29280.1	32086.8	33614.6	30454.1	30419.1	29455.0	31196.6	31010.0
65°	21618.0	22539.3	26108.0	33295.8	36261.9	34357.1	34407.6	33381.3	34582.6	33976.1
67.5°	15122.1	16094.0	20315.7	33393.0	39220.3	38940.4	39231.9	37622.5	38178.4	36817.8
70°	10457.2	10958.7	13707.1	31301.6	41525.5	45253.6	45245.8	42831.7	41754.9	38112.3
72.5°	7032.4	7292.8	8902.2	24832.9	39830.6	49004.9	48779.4	46812.4	42960.0	35643.8
75°	2966.1	3156.6	4120.7	13955.9	31511.5	44833.7	44223.4	41370.0	38170.7	28067.2
77.5°	940.8	1022.4	1624.9	4995.3	17357.4	33700.1	33054.8	25835.8	25583.2	14080.3
80°	447.1	520.9	913.5	2005.9	6830.2	18329.2	18239.8	11720.6	11005.3	3801.9
82.5°	194.4	229.4	505.4	1072.9	3055.5	6538.7	6670.8	3988.5	3300.4	1442.2
85°	62.2	81.6	233.2	493.7	1290.6	1624.9	1605.5	948.5	1329.5	785.3
87.5°	0.0	0.0	77.7	112.7	132.2	93.3	105.0	81.6	369.3	217.7
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°
6239.3	0°	6239.3	6239.3	6239.3	6239.3	6239.3	6239.3	6239.3	6239.3	6239.3	6239.3
6317.1	2.5°	6270.4	6208.2	6099.4	5998.3	5908.9	5819.5	5765.1	5687.3	5679.5	5679.5
6418.1	5°	6313.2	6212.1	6017.7	5811.7	5574.6	5349.1	5123.6	4905.9	4836.0	4785.4
6581.4	7.5°	6437.6	6278.2	5971.1	5578.5	5127.5	4633.8	4287.8	3914.6	3770.8	3693.1
6799.1	10°	6616.4	6398.7	5932.2	5244.1	4513.3	3840.8	3347.1	2942.8	2787.3	2721.2
7036.2	12.5°	6814.7	6546.4	5862.2	4828.2	3840.8	3036.1	2554.0	2367.4	2344.1	2344.1
7320.0	15°	7051.8	6725.3	5741.7	4338.4	3137.2	2402.4	2231.4	2239.2	2262.5	2278.0
7596.0	17.5°	7296.7	6915.7	5551.2	3790.2	2515.2	2161.4	2165.3	2177.0	2196.4	2211.9
7895.4	20°	7561.0	7106.2	5298.6	3207.1	2157.5	2091.4	2103.1	2114.8	2130.3	2138.1
8175.3	22.5°	7844.8	7285.0	4999.2	2635.7	2037.0	2033.1	2037.0	2048.7	2068.1	2068.1
8501.8	25°	8148.0	7483.3	4657.1	2219.7	1974.8	1974.8	1982.6	1990.4	2005.9	2005.9
8816.7	27.5°	8459.0	7666.0	4295.6	2002.0	1920.4	1916.5	1916.5	1928.2	1935.9	1939.8
9127.7	30°	8801.1	7879.8	3934.1	1955.4	1877.6	1858.2	1846.5	1854.3	1862.1	1866.0
9454.2	32.5°	9151.0	8085.9	3611.4	1974.8	1834.9	1799.9	1761.0	1753.2	1753.2	1768.8
9792.4	35°	9539.7	8311.3	3362.6	2040.9	1811.5	1714.4	1652.2	1617.2	1621.1	1644.4
10196.7	37.5°	10006.2	8583.4	3179.9	2099.2	1796.0	1617.2	1516.1	1473.3	1446.1	1473.3
10752.6	40°	10616.6	8983.8	3047.7	2145.9	1776.6	1504.4	1368.4	1298.4	1247.9	1263.4
11615.6	42.5°	11514.6	9613.6	2997.2	2149.7	1733.8	1372.3	1216.8	1123.5	1049.6	1053.5
12914.0	45°	12774.1	10608.8	3257.7	2099.2	1640.5	1228.4	1057.4	933.0	886.3	874.7
14853.9	47.5°	14500.1	12058.8	3860.2	1994.3	1504.4	1088.5	901.9	796.9	761.9	742.5
17400.1	50°	16813.1	13920.9	4528.9	1877.6	1368.4	956.3	773.6	707.5	684.2	664.8
20420.7	52.5°	19495.5	15810.2	5077.0	1761.0	1232.3	839.7	692.0	653.1	633.7	618.1
23336.2	55°	21956.2	17112.5	5045.9	1636.6	1100.1	746.4	633.7	610.3	587.0	571.5
25847.5	57.5°	23487.8	17295.2	4159.5	1500.5	948.5	672.5	579.2	563.7	536.5	517.0
28020.6	60°	24191.5	16253.3	2915.6	1321.7	796.9	602.6	520.9	513.1	478.2	450.9
30077.0	62.5°	24319.8	14317.4	1943.7	1100.1	664.8	536.5	462.6	450.9	404.3	357.6
31748.6	65°	23798.8	11549.5	1345.1	859.1	567.6	466.5	396.5	373.2	322.7	276.0
32145.1	67.5°	22150.6	8109.2	936.9	618.1	482.0	369.3	314.9	307.1	268.2	229.4
30123.7	70°	19130.0	4622.2	625.9	462.6	381.0	252.7	248.8	256.6	217.7	186.6
24611.3	72.5°	14667.3	2114.8	388.7	338.2	260.5	171.0	198.3	202.1	167.2	139.9
15355.3	75°	8634.0	905.8	244.9	217.7	132.2	112.7	143.8	147.7	112.7	89.4
5613.4	77.5°	2938.9	342.1	155.5	128.3	66.1	62.2	93.3	93.3	62.2	35.0
1127.4	80°	668.6	128.3	77.7	50.5	31.1	27.2	31.1	27.2	15.5	3.9
346.0	82.5°	190.5	50.5	31.1	19.4	11.7	11.7	3.9	0.0	0.0	0.0
120.5	85°	54.4	23.3	7.8	7.8	0.0	0.0	0.0	0.0	0.0	0.0
42.8	87.5°	23.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°
6239.3
5699.0
4808.7
3704.7
2721.2
2344.1
2278.0
2211.9
2142.0
2075.9
2009.8
1943.7
1873.7
1780.4
1656.0
1465.6
1255.6
1037.9
859.1
730.8
660.9
614.2
563.7
513.1
443.2
334.3
260.5
217.7
171.0
124.4
77.7
27.2
0.0
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