

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: P943738

Luminaire Tested: **GALN-SB8B-835-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31977 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

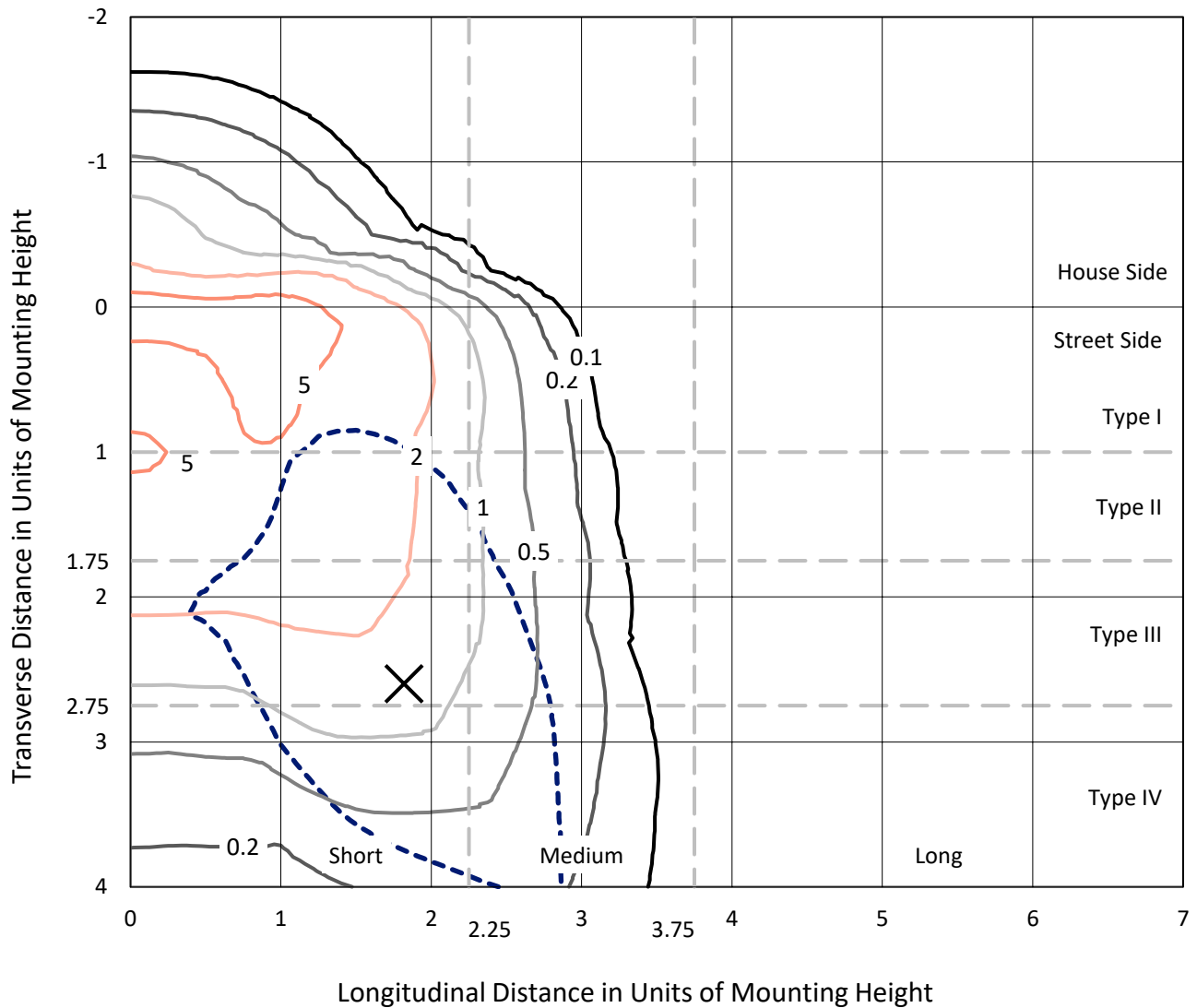
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

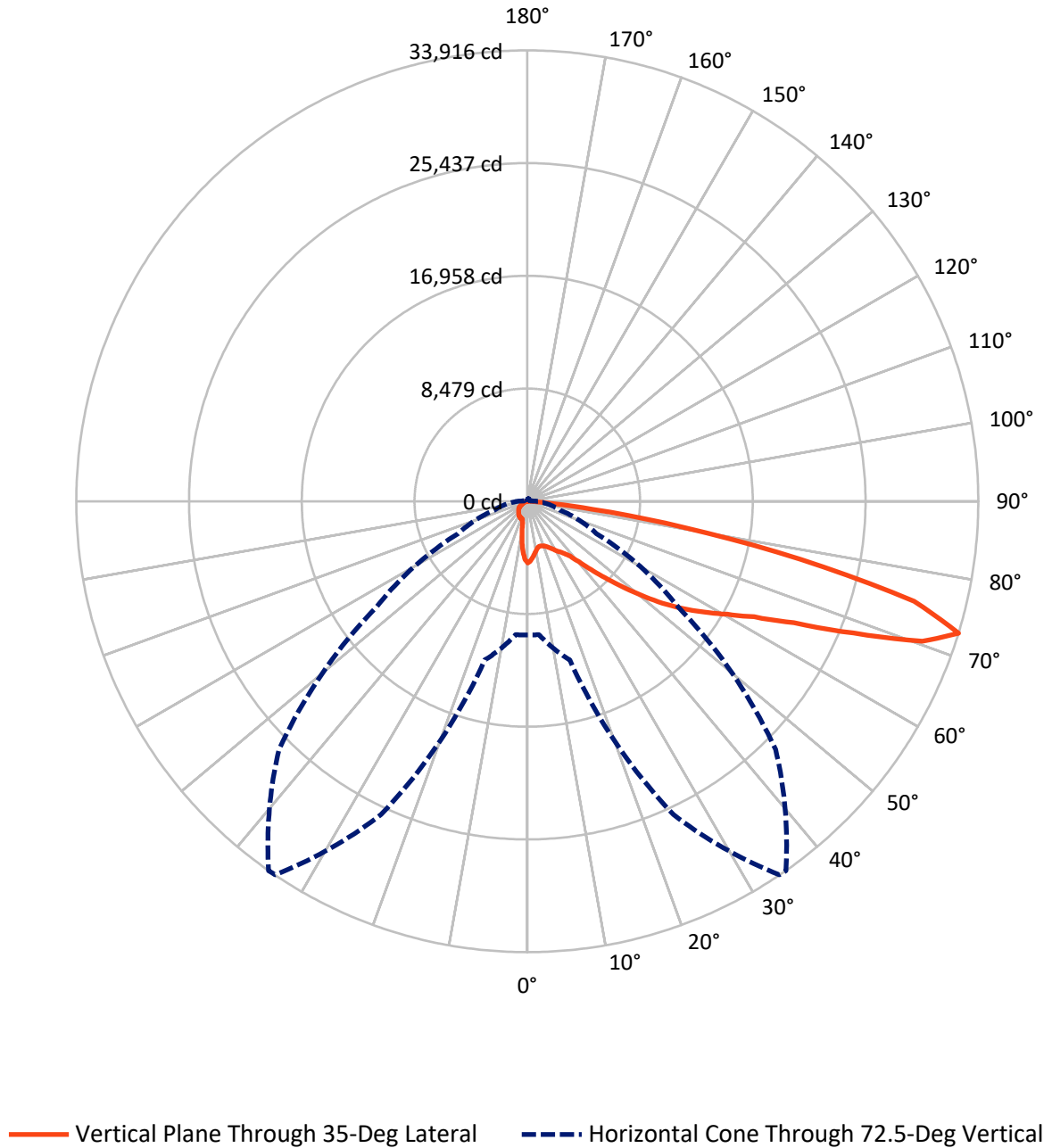
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	3598.9	0.0	3598.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	28378.1	0.0	28378.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	31977.0	0.0	31977.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.8	1.2
10°-20°	890.9	2.8
20°-30°	1447.3	4.5
30°-40°	2414.8	7.6
40°-50°	4568.8	14.3
50°-60°	7259.8	22.7
60°-70°	8980.9	28.1
70°-80°	5582.6	17.5
80°-90°	451.2	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°	31977.0	100.0
0°-180°	31977.0	100.0



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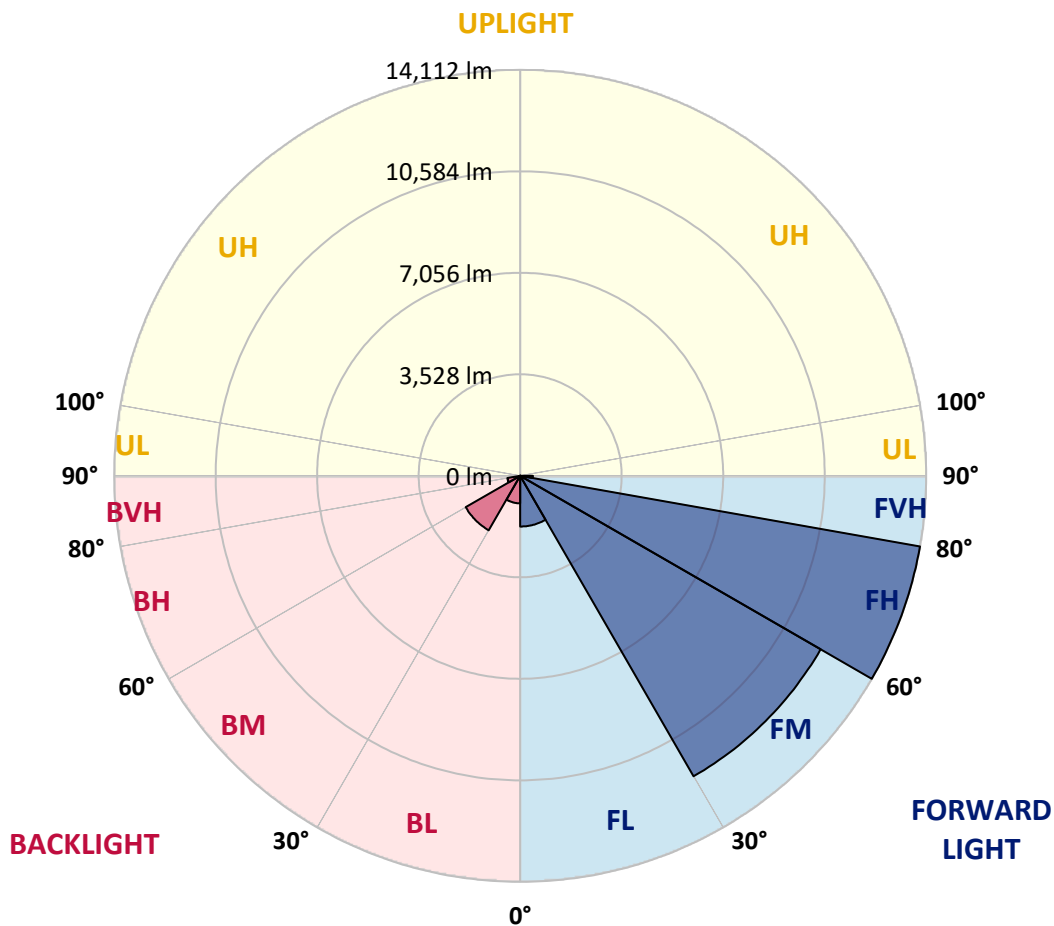
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1762.7	5.5			
FM (30°-60°)	12058.5	37.7			
FH (60°-80°)	14111.8	44.1			G5
FVH (80°-90°)	445.0	1.4			G3/500
BL (0°-30°)	956.3	3.0	B2/1000		
BM (30°-60°)	2184.8	6.8	B2/2500		
BH (60°-80°)	451.6	1.4	B1/500		G1/500
BVH (80°-90°)	6.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4634.5	4634.5	4634.5	4634.5	4634.5	4634.5	4634.5	4634.5	4634.5	4634.5
2.5°	4428.4	4465.8	4472.9	4484.6	4484.6	4498.6	4522.1	4554.9	4608.8	4636.9
5°	4081.6	4109.7	4144.8	4173.0	4226.8	4233.9	4325.3	4414.3	4538.5	4632.2
7.5°	3732.5	3765.3	3812.1	3880.1	3950.4	3971.5	4109.7	4259.7	4456.5	4632.2
10°	3486.4	3488.8	3531.0	3598.9	3711.4	3737.2	3905.9	4119.1	4365.1	4604.1
12.5°	3348.2	3364.6	3383.4	3434.9	3542.7	3559.1	3739.5	3990.2	4273.7	4587.7
15°	3348.2	3359.9	3371.6	3397.4	3484.1	3498.2	3657.5	3908.2	4226.8	4594.7
17.5°	3383.4	3402.1	3392.7	3423.2	3514.6	3523.9	3664.5	3884.8	4224.5	4639.2
20°	3467.7	3481.8	3463.0	3481.8	3573.1	3591.9	3737.2	3929.3	4264.3	4716.5
22.5°	3601.3	3608.3	3563.8	3577.8	3671.5	3695.0	3863.7	4055.8	4360.4	4840.7
25°	3770.0	3784.0	3716.1	3732.5	3821.5	3849.6	4044.1	4245.6	4512.7	5011.8
27.5°	3964.4	3971.5	3912.9	3910.5	4025.3	4065.2	4262.0	4479.9	4716.5	5227.3
30°	4187.0	4208.1	4151.9	4142.5	4287.8	4320.6	4515.0	4768.1	5016.5	5550.7
32.5°	4362.7	4379.1	4346.3	4369.8	4517.4	4543.2	4822.0	5175.8	5487.4	6009.9
35°	4615.8	4625.2	4550.2	4592.4	4761.1	4826.7	5241.4	5747.5	6080.2	6586.3
37.5°	5531.9	5531.9	5213.3	5004.7	5166.4	5225.0	5815.4	6466.8	6811.2	7359.5
40°	6799.5	6778.4	6312.2	5885.7	5864.6	5979.4	6633.2	7373.6	7755.5	8287.3
42.5°	8151.4	8118.6	7483.7	7061.9	6991.6	7031.5	7577.4	8491.2	8880.1	9419.0
45°	9351.1	9341.7	8760.6	8193.6	8067.1	8193.6	8756.0	9798.6	10077.4	10644.4
47.5°	10356.3	10356.3	9932.2	9562.0	9496.4	9571.3	10351.6	11249.0	11223.2	11949.5
50°	11513.7	11504.3	11101.3	10942.0	11010.0	11115.4	12188.5	12776.6	12408.8	13231.2
52.5°	12324.4	12380.6	12242.4	12216.6	12563.4	12746.2	14053.6	14271.5	13470.2	14447.2
55°	12966.4	13032.0	13191.3	13371.7	14039.5	14278.5	15860.1	15689.0	14358.2	15501.6
57.5°	13875.5	13781.8	14027.8	14383.9	15464.1	15752.3	17610.3	17026.9	15072.8	16356.8
60°	14979.1	14993.1	15035.3	15485.2	16886.3	17256.5	19334.8	18292.1	15532.0	16881.6
62.5°	16305.2	16326.3	16413.0	17104.2	18795.9	19145.0	21171.7	19327.8	15742.9	16734.0
65°	16213.9	16302.9	17270.6	19634.7	21698.9	22043.4	23315.6	20054.1	15424.3	15384.4
67.5°	14770.5	14915.8	16534.9	22657.2	26075.7	26460.0	25907.0	20197.0	14048.9	11963.6
70°	12877.4	12928.9	14876.0	25375.2	31143.7	31532.7	28226.6	18624.9	10660.8	6673.0
72.5°	10056.3	10068.1	12352.5	26005.4	33894.5	33915.6	26406.1	13826.3	5733.4	2563.3
75°	7183.8	7113.5	8273.3	21089.7	29819.9	30058.9	19796.4	6485.5	2190.7	1211.4
77.5°	3852.0	3929.3	4681.4	12507.2	20600.0	21007.7	10801.4	1869.7	1115.3	824.8
80°	1190.3	1255.9	1919.0	5726.4	11668.4	11914.4	4004.3	831.8	777.9	588.1
82.5°	374.9	388.9	895.0	2406.3	4843.1	4955.5	1159.8	471.0	531.9	388.9
85°	107.8	110.1	398.3	897.4	1197.3	1220.7	325.7	182.8	304.6	241.3
87.5°	11.7	37.5	150.0	150.0	105.4	103.1	35.1	39.8	86.7	30.5
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°
4634.5	0°	4634.5	4634.5	4634.5	4634.5	4634.5	4634.5	4634.5	4634.5	4634.5	4634.5
4655.6	2.5°	4643.9	4646.3	4615.8	4564.2	4508.0	4461.2	4402.6	4355.7	4322.9	4313.5
4697.8	5°	4676.7	4660.3	4573.6	4416.6	4229.2	4067.5	3887.1	3744.2	3650.5	3610.6
4742.3	7.5°	4725.9	4679.1	4489.3	4180.0	3821.5	3502.8	3179.5	2928.8	2769.5	2689.8
4784.5	10°	4768.1	4674.4	4348.7	3837.9	3289.6	2807.0	2371.2	2068.9	1900.2	1820.5
4833.7	12.5°	4807.9	4672.0	4165.9	3432.6	2689.8	2099.4	1694.0	1544.1	1497.2	1480.8
4913.4	15°	4882.9	4679.1	3936.3	2968.6	2092.3	1586.2	1438.6	1436.3	1445.7	1441.0
5035.2	17.5°	4986.0	4686.1	3676.2	2476.6	1614.4	1398.8	1391.8	1412.9	1426.9	1419.9
5187.5	20°	5119.5	4714.2	3399.8	1989.2	1387.1	1351.9	1368.3	1387.1	1398.8	1387.1
5391.3	22.5°	5307.0	4763.4	3097.5	1598.0	1314.4	1323.8	1337.9	1359.0	1370.7	1354.3
5651.4	25°	5536.6	4840.7	2799.9	1389.4	1279.3	1291.0	1312.1	1335.5	1349.6	1333.2
5979.4	27.5°	5834.2	4964.9	2525.8	1342.6	1244.2	1251.2	1281.6	1316.8	1335.5	1314.4
6445.7	30°	6265.3	5168.8	2289.2	1363.7	1223.1	1206.7	1248.8	1298.0	1319.1	1300.4
7080.7	32.5°	6837.0	5456.9	2143.9	1396.5	1213.7	1155.1	1195.0	1258.2	1293.4	1281.6
7910.1	35°	7586.8	5895.1	2087.7	1433.9	1206.7	1101.2	1129.3	1197.3	1258.2	1269.9
8955.1	37.5°	8495.9	6504.3	2104.1	1450.3	1185.6	1056.7	1070.8	1129.3	1209.0	1246.5
10131.3	40°	9529.2	7214.2	2197.8	1433.9	1162.1	1019.2	1021.6	1066.1	1136.4	1192.6
11396.6	42.5°	10595.2	8043.7	2371.2	1373.0	1141.1	986.4	979.4	1009.9	1056.7	1096.5
12659.5	45°	11609.8	8896.5	2542.2	1288.7	1115.3	953.6	937.2	948.9	958.3	974.7
13889.6	47.5°	12495.4	9496.4	2493.0	1211.4	1080.1	916.1	888.0	883.3	855.2	852.9
14988.4	50°	13107.0	9627.6	2214.2	1134.0	1028.6	874.0	829.4	801.3	752.1	728.7
15810.9	52.5°	13301.5	9109.8	1808.8	1056.7	944.2	817.7	754.5	709.9	649.0	627.9
16284.2	55°	13043.7	8095.2	1445.7	963.0	827.1	742.7	672.5	613.9	564.7	538.9
16335.7	57.5°	12413.4	6804.2	1143.4	852.9	702.9	658.4	588.1	529.5	487.4	461.6
15764.0	60°	11368.4	5403.1	904.4	721.7	599.8	567.0	494.4	456.9	419.4	388.9
14287.9	62.5°	9782.2	3856.6	709.9	571.7	501.4	463.9	421.7	393.6	349.1	306.9
11633.2	65°	7633.6	2359.4	548.3	419.4	403.0	384.3	358.5	332.7	278.8	236.6
7589.1	67.5°	4815.0	1117.6	391.3	316.3	318.7	309.3	297.6	276.5	236.6	199.2
3399.8	70°	2120.5	541.2	257.7	241.3	236.6	236.6	246.0	239.0	201.5	166.4
1180.9	72.5°	721.7	290.5	192.1	182.8	171.0	168.7	206.2	199.2	161.7	128.9
588.1	75°	377.2	194.5	140.6	131.2	103.1	124.2	164.0	154.6	114.8	84.3
388.9	77.5°	246.0	138.2	96.1	84.3	58.6	82.0	121.8	107.8	67.9	42.2
255.4	80°	154.6	91.4	56.2	39.8	28.1	44.5	65.6	46.9	25.8	9.4
150.0	82.5°	82.0	46.9	21.1	14.1	11.7	14.1	16.4	11.7	4.7	0.0
77.3	85°	32.8	16.4	7.0	4.7	2.3	0.0	4.7	2.3	0.0	0.0
14.1	87.5°	11.7	2.3	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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<u>180°</u>
4634.5
4329.9
3624.7
2701.5
1822.9
1476.1
1438.6
1417.5
1384.7
1351.9
1330.8
1314.4
1298.0
1281.6
1269.9
1255.9
1211.4
1112.9
984.1
850.5
731.0
625.6
538.9
456.9
381.9
299.9
229.6
194.5
159.3
<i>121.8</i>
77.3
37.5
7.0
0.0
0.0
0.0
0.0

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