

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: P943718

Luminaire Tested: **GALN-SB8B-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943718
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-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 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: 29979 lumens
Efficiency: N/A
Efficacy: 102.4 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

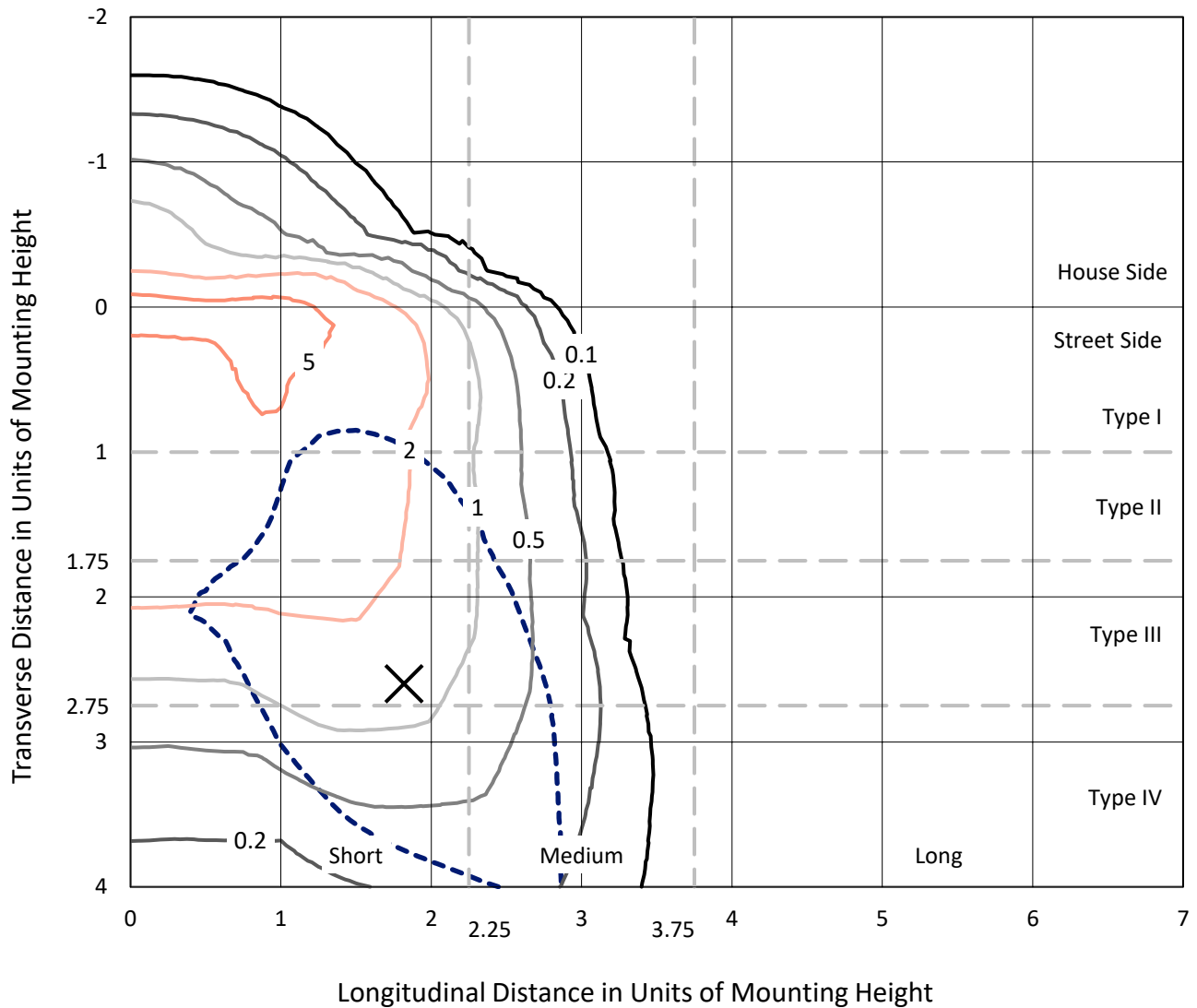
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

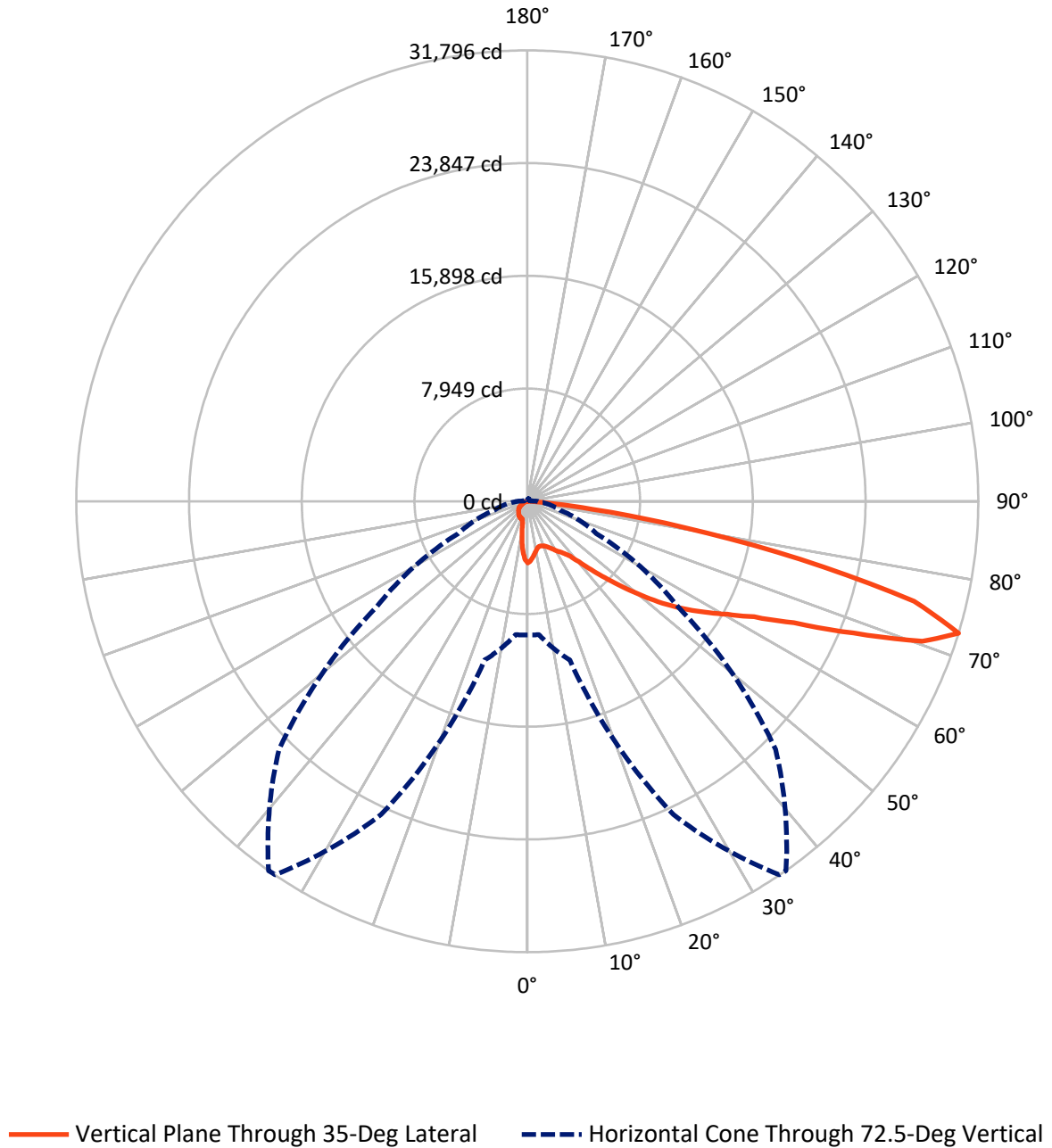
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	3374.0	0.0	3374.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	26605.0	0.0	26605.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	29979.0	0.0	29979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.0	1.2
10°-20°	835.3	2.8
20°-30°	1356.8	4.5
30°-40°	2263.9	7.6
40°-50°	4283.3	14.3
50°-60°	6806.2	22.7
60°-70°	8419.7	28.1
70°-80°	5233.8	17.5
80°-90°	423.0	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°	29979.0	100.0
0°-180°	29979.0	100.0

Coefficient of Utilization



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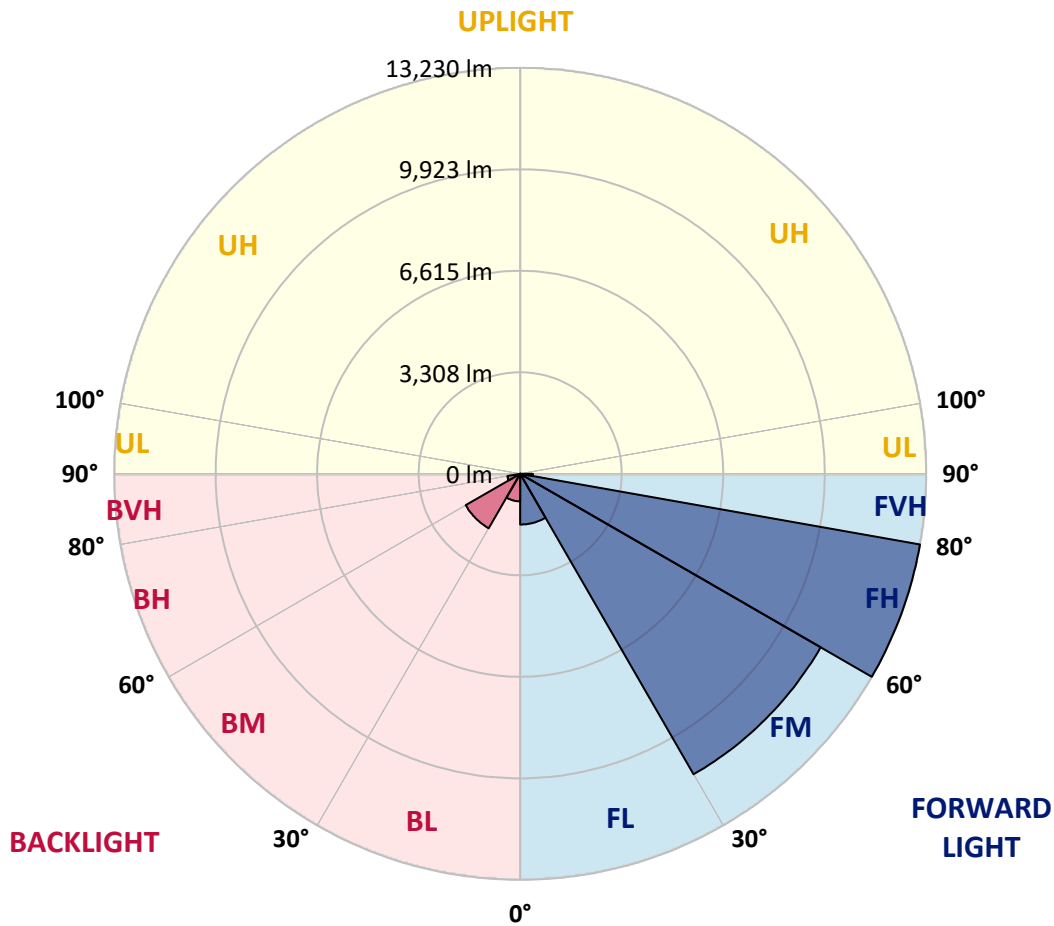
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1652.6	5.5			
FM (30°-60°)	11305.1	37.7			
FH (60°-80°)	13230.1	44.1			G5
FVH (80°-90°)	417.2	1.4			G3/500
BL (0°-30°)	896.5	3.0	B2/1000		
BM (30°-60°)	2048.3	6.8	B2/2500		
BH (60°-80°)	423.4	1.4	B1/500		G1/500
BVH (80°-90°)	5.8	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°	4345.0	4345.0	4345.0	4345.0	4345.0	4345.0	4345.0	4345.0	4345.0	4345.0
2.5°	4151.7	4186.8	4193.4	4204.4	4204.4	4217.6	4239.5	4270.3	4320.8	4347.2
5°	3826.6	3852.9	3885.9	3912.2	3962.7	3969.3	4055.0	4138.5	4254.9	4342.8
7.5°	3499.3	3530.0	3573.9	3637.6	3703.5	3723.3	3852.9	3993.5	4178.0	4342.8
10°	3268.6	3270.8	3310.3	3374.0	3479.5	3503.6	3661.8	3861.7	4092.3	4316.4
12.5°	3139.0	3154.4	3172.0	3220.3	3321.3	3336.7	3505.8	3740.9	4006.7	4301.0
15°	3139.0	3150.0	3161.0	3185.1	3266.4	3279.6	3429.0	3664.0	3962.7	4307.6
17.5°	3172.0	3189.5	3180.7	3209.3	3295.0	3303.8	3435.6	3642.0	3960.5	4349.4
20°	3251.0	3264.2	3246.6	3264.2	3349.9	3367.5	3503.6	3683.8	3997.9	4421.8
22.5°	3376.2	3382.8	3341.1	3354.3	3442.1	3464.1	3622.3	3802.4	4088.0	4538.3
25°	3534.4	3547.6	3483.9	3499.3	3582.7	3609.1	3791.4	3980.3	4230.7	4698.6
27.5°	3716.7	3723.3	3668.4	3666.2	3773.8	3811.2	3995.7	4200.0	4421.8	4900.7
30°	3925.4	3945.2	3892.5	3883.7	4019.9	4050.6	4232.9	4470.2	4703.0	5203.9
32.5°	4090.2	4105.5	4074.8	4096.7	4235.1	4259.3	4520.7	4852.4	5144.5	5634.4
35°	4327.4	4336.2	4265.9	4305.4	4463.6	4525.1	4913.9	5388.4	5700.3	6174.8
37.5°	5186.3	5186.3	4887.5	4692.0	4843.6	4898.5	5452.1	6062.7	6385.6	6899.7
40°	6374.7	6354.9	5917.8	5518.0	5498.2	5605.8	6218.7	6912.8	7270.9	7769.5
42.5°	7642.1	7611.4	7016.1	6620.7	6554.8	6592.1	7103.9	7960.6	8325.3	8830.5
45°	8766.8	8758.0	8213.3	7681.7	7563.0	7681.7	8208.9	9186.4	9447.8	9979.4
47.5°	9709.2	9709.2	9311.6	8964.5	8903.0	8973.3	9704.8	10546.1	10521.9	11202.9
50°	10794.3	10785.5	10407.7	10258.3	10322.0	10420.9	11426.9	11978.3	11633.4	12404.4
52.5°	11554.3	11607.1	11477.5	11453.3	11778.4	11949.7	13175.5	13379.8	12628.5	13544.5
55°	12156.2	12217.7	12367.1	12536.2	13162.3	13386.3	14869.1	14708.7	13461.0	14533.0
57.5°	13008.5	12920.7	13151.3	13485.2	14497.9	14768.0	16510.0	15963.0	14131.0	15334.8
60°	14043.1	14056.3	14095.9	14517.6	15831.2	16178.3	18126.7	17149.2	14561.6	15826.8
62.5°	15286.4	15306.2	15387.5	16035.5	17621.5	17948.8	19848.9	18120.1	14759.3	15688.4
65°	15200.8	15284.3	16191.5	18407.9	20343.1	20666.0	21858.8	18801.1	14460.5	14423.2
67.5°	13847.6	13983.8	15501.7	21241.5	24446.5	24806.7	24288.3	18935.1	13171.1	11216.1
70°	12072.8	12121.1	13946.5	23789.7	29197.8	29562.4	26463.0	17461.1	9994.7	6256.0
72.5°	9428.0	9439.0	11580.7	24380.6	31776.7	31796.4	24756.2	12962.4	5375.2	2403.1
75°	6734.9	6669.0	7756.4	19772.0	27956.7	28180.7	18559.4	6080.3	2053.9	1135.7
77.5°	3611.3	3683.8	4388.9	11725.7	19312.9	19695.1	10126.5	1752.9	1045.6	773.2
80°	1115.9	1177.4	1799.1	5368.6	10939.3	11169.9	3754.1	779.8	729.3	551.4
82.5°	351.5	364.6	839.1	2256.0	4540.5	4645.9	1087.3	441.5	498.6	364.6
85°	101.0	103.2	373.4	841.3	1122.5	1144.5	305.3	171.3	285.6	226.3
87.5°	11.0	35.1	140.6	140.6	98.8	96.7	32.9	37.3	81.3	28.6
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°
4345.0	0°	4345.0	4345.0	4345.0	4345.0	4345.0	4345.0	4345.0	4345.0	4345.0	4345.0
4364.7	2.5°	4353.7	4355.9	4327.4	4279.1	4226.3	4182.4	4127.5	4083.6	4052.8	4044.0
4404.3	5°	4384.5	4369.1	4287.8	4140.7	3964.9	3813.4	3644.2	3510.2	3422.4	3385.0
4446.0	7.5°	4430.6	4386.7	4208.8	3918.8	3582.7	3284.0	2980.8	2745.8	2596.4	2521.7
4485.5	10°	4470.2	4382.3	4077.0	3598.1	3084.1	2631.6	2223.0	1939.6	1781.5	1706.8
4531.7	12.5°	4507.5	4380.1	3905.6	3218.1	2521.7	1968.2	1588.2	1447.6	1403.7	1388.3
4606.4	15°	4577.8	4386.7	3690.4	2783.1	1961.6	1487.1	1348.7	1346.5	1355.3	1350.9
4720.6	17.5°	4674.5	4393.3	3446.5	2321.9	1513.5	1311.4	1304.8	1324.6	1337.8	1331.2
4863.4	20°	4799.7	4419.6	3187.3	1865.0	1300.4	1267.5	1282.8	1300.4	1311.4	1300.4
5054.5	22.5°	4975.4	4465.8	2904.0	1498.1	1232.3	1241.1	1254.3	1274.1	1285.0	1269.7
5298.3	25°	5190.7	4538.3	2625.0	1302.6	1199.4	1210.4	1230.1	1252.1	1265.3	1249.9
5605.8	27.5°	5469.6	4654.7	2368.0	1258.7	1166.4	1173.0	1201.6	1234.5	1252.1	1232.3
6043.0	30°	5873.8	4845.8	2146.1	1278.4	1146.6	1131.3	1170.8	1216.9	1236.7	1219.1
6638.3	32.5°	6409.8	5116.0	2009.9	1309.2	1137.9	1082.9	1120.3	1179.6	1212.5	1201.6
7415.9	35°	7112.7	5526.8	1957.2	1344.3	1131.3	1032.4	1058.8	1122.5	1179.6	1190.6
8395.6	37.5°	7965.0	6097.9	1972.6	1359.7	1111.5	990.7	1003.9	1058.8	1133.5	1168.6
9498.3	40°	8933.8	6763.5	2060.5	1344.3	1089.5	955.5	957.7	999.5	1065.4	1118.1
10684.5	42.5°	9933.2	7541.1	2223.0	1287.2	1069.8	924.8	918.2	946.8	990.7	1028.0
11868.5	45°	10884.4	8340.7	2383.4	1208.2	1045.6	894.0	878.7	889.6	898.4	913.8
13021.7	47.5°	11714.7	8903.0	2337.2	1135.7	1012.7	858.9	832.5	828.1	801.8	799.6
14051.9	50°	12288.0	9026.0	2075.8	1063.2	964.3	819.3	777.6	751.3	705.1	683.2
14823.0	52.5°	12470.3	8540.6	1695.8	990.7	885.2	766.6	707.3	665.6	608.5	588.7
15266.7	55°	12228.7	7589.4	1355.3	902.8	775.4	696.3	630.4	575.5	529.4	505.2
15315.0	57.5°	11637.8	6379.1	1072.0	799.6	659.0	617.3	551.4	496.4	456.9	432.7
14779.0	60°	10658.1	5065.5	847.9	676.6	562.3	531.6	463.5	428.3	393.2	364.6
13395.1	62.5°	9171.0	3615.7	665.6	536.0	470.1	434.9	395.4	369.0	327.3	287.8
10906.3	65°	7156.7	2212.0	514.0	393.2	377.8	360.2	336.1	311.9	261.4	221.9
7114.9	67.5°	4514.1	1047.8	366.8	296.5	298.7	290.0	279.0	259.2	221.9	186.7
3187.3	70°	1988.0	507.4	241.6	226.3	221.9	221.9	230.6	224.1	188.9	156.0
1107.1	72.5°	676.6	272.4	180.1	171.3	160.4	158.2	193.3	186.7	151.6	120.8
551.4	75°	353.7	182.3	131.8	123.0	96.7	116.4	153.8	145.0	107.6	79.1
364.6	77.5°	230.6	129.6	90.1	79.1	54.9	76.9	114.2	101.0	63.7	39.5
239.4	80°	145.0	85.7	52.7	37.3	26.4	41.7	61.5	43.9	24.2	8.8
140.6	82.5°	76.9	43.9	19.8	13.2	11.0	13.2	15.4	11.0	4.4	0.0
72.5	85°	30.8	15.4	6.6	4.4	2.2	0.0	4.4	2.2	0.0	0.0
13.2	87.5°	11.0	2.2	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>
4345.0
4059.4
3398.2
2532.7
1709.0
1383.9
1348.7
1329.0
1298.2
1267.5
1247.7
1232.3
1216.9
1201.6
1190.6
1177.4
1135.7
1043.4
922.6
797.4
685.4
586.5
505.2
428.3
358.1
281.2
215.3
182.3
149.4
114.2
72.5
35.1
6.6
0.0
0.0
0.0
0.0

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