

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: P954272

Luminaire Tested: **GALN-SB7C-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39212 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

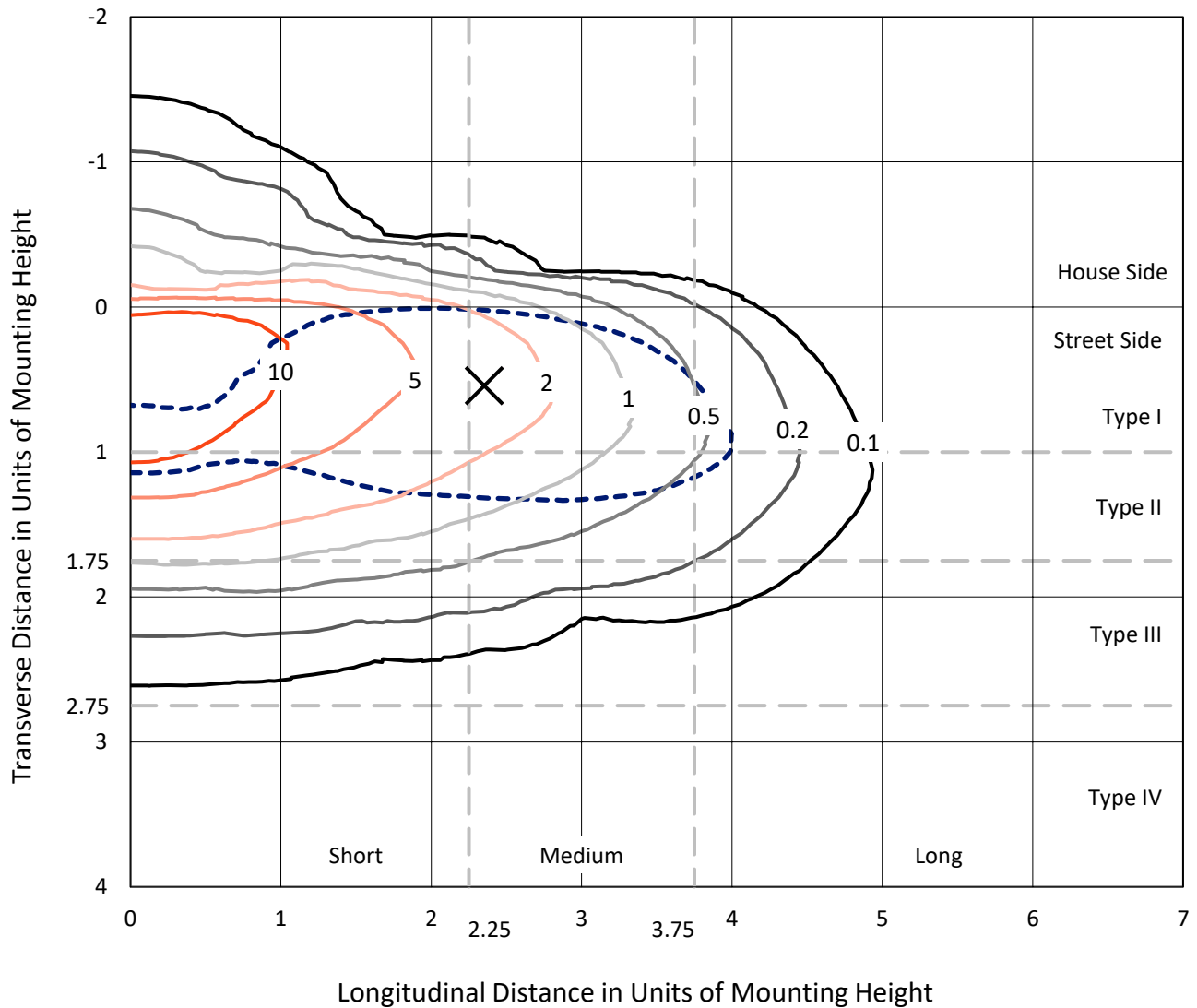
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

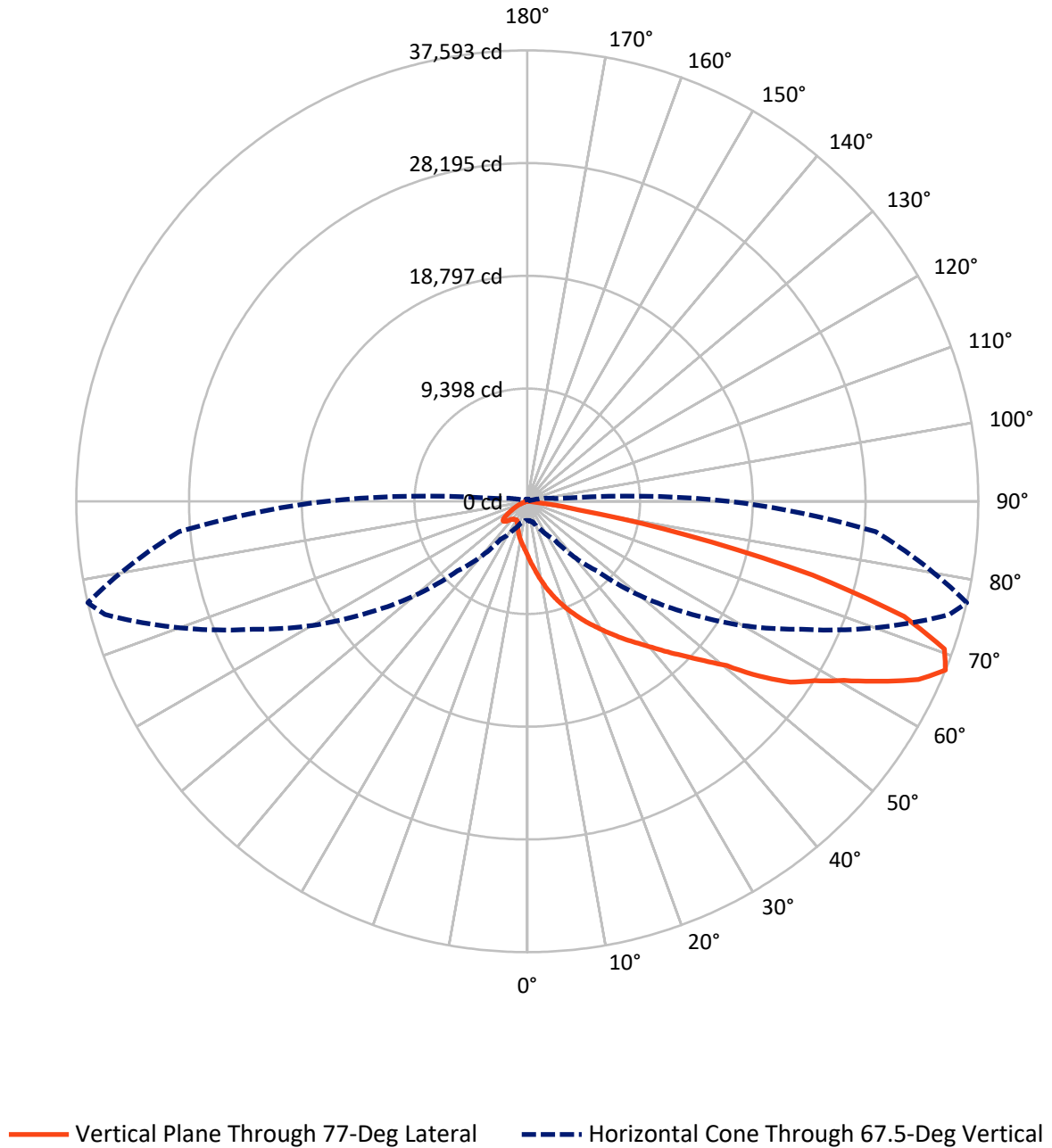
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2884.8	0.0	2884.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	36327.2	0.0	36327.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	39212.0	0.0	39212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.5	1.2
10°-20°	1616.2	4.1
20°-30°	3118.8	8.0
30°-40°	5414.4	13.8
40°-50°	7861.4	20.0
50°-60°	9027.8	23.0
60°-70°	7837.8	20.0
70°-80°	3691.7	9.4
80°-90°	182.6	0.5
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°	39212.0	100.0
0°-180°	39212.0	100.0

Coefficient of Utilization



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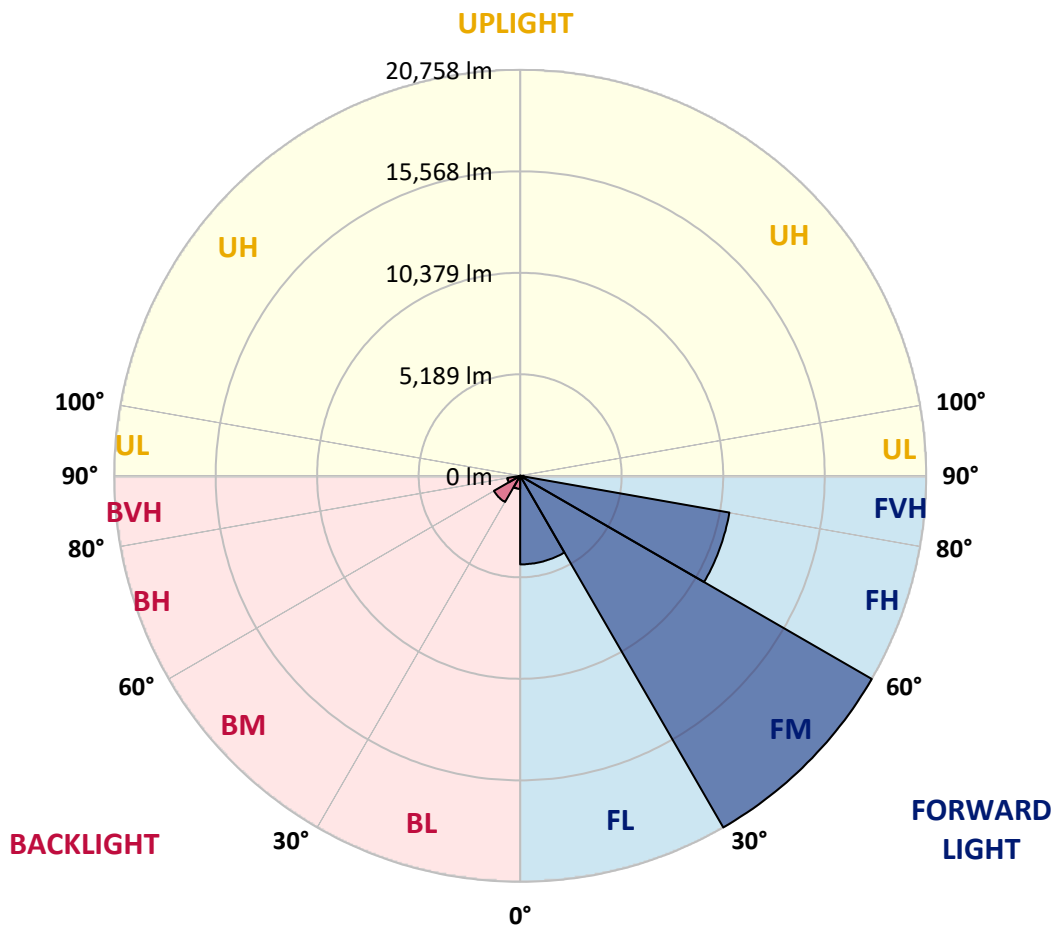
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4528.6	11.5			
FM (30°-60°)	20757.8	52.9			
FH (60°-80°)	10861.6	27.7			G4/12000
FVH (80°-90°)	179.2	0.5			G2/225
BL (0°-30°)	667.9	1.7	B2/1000		
BM (30°-60°)	1545.7	3.9	B2/2500		
BH (60°-80°)	667.9	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.4	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7
2.5°	6260.3	6299.2	6243.2	6136.1	5975.4	5870.7	5615.0	5374.0	5106.1	5020.9
5°	7631.2	7665.3	7601.9	7485.1	7270.8	7066.3	6730.2	6226.2	5702.7	5534.7
7.5°	8646.5	8666.0	8641.7	8534.5	8330.0	8098.7	7723.7	7127.1	6350.4	6165.3
10°	9377.0	9440.3	9433.0	9391.6	9255.3	9067.8	8668.5	7989.1	7076.0	6837.4
12.5°	9861.6	9932.2	9973.6	10066.1	10058.8	9939.5	9588.9	8870.6	7799.2	7519.2
15°	10002.8	10078.3	10236.6	10450.8	10640.8	10701.6	10455.7	9735.0	8595.4	8237.5
17.5°	9922.5	10039.3	10229.3	10567.7	10984.1	11259.3	11232.5	10570.2	9318.6	8909.5
20°	10100.2	10212.2	10360.8	10645.6	11130.2	11629.4	11829.0	11368.8	10036.9	9608.4
22.5°	11083.9	11064.5	11079.1	11125.3	11415.1	11909.4	12320.9	12094.4	10747.9	10309.6
25°	12642.3	12554.7	12406.1	12155.3	12082.3	12320.9	12749.4	12737.3	11497.9	11027.9
27.5°	14429.6	14415.0	14066.8	13462.9	13122.0	13029.5	13234.0	13363.1	12240.5	11738.9
30°	16141.3	16180.3	15710.4	15038.3	14412.5	14049.7	13864.7	13957.2	12995.4	12506.0
32.5°	17631.5	17672.9	17161.6	16375.1	15600.8	15162.5	14772.9	14544.0	13818.4	13285.1
35°	18890.4	18931.8	18345.0	17475.7	16650.3	16253.4	15812.6	15186.8	14646.3	14149.6
37.5°	20015.4	20003.2	19216.7	18340.1	17529.3	17215.2	16983.8	15978.2	15498.5	15018.8
40°	20680.1	20731.2	20059.2	19092.5	18306.0	18077.1	18062.5	16959.5	16482.2	16017.2
42.5°	20874.9	20965.0	20478.0	19684.2	18970.8	18722.4	19104.7	18021.1	17626.7	17173.8
45°	20524.3	20611.9	20390.4	19840.1	19423.7	19263.0	20000.8	19121.7	18849.0	18401.0
47.5°	19501.6	19611.2	19664.7	19547.9	19543.0	19706.1	20804.3	20280.8	20300.3	19842.5
50°	17522.0	17707.0	18198.9	18612.8	19253.2	20056.8	21585.9	21537.2	21936.6	21542.1
52.5°	13923.1	14186.1	15880.8	17013.1	18452.1	19991.0	22445.5	23553.4	24807.4	24230.3
55°	11188.6	11188.6	12566.8	14685.2	16888.9	19557.6	22820.4	24863.4	26762.6	26626.3
57.5°	9121.4	9230.9	10110.0	11982.4	14626.8	18525.2	23051.8	25686.4	28338.1	28238.2
60°	5629.6	5865.8	7526.5	9374.6	12053.1	16686.8	22905.7	26519.1	30249.5	30329.9
62.5°	3170.3	3258.0	3998.2	6744.8	9372.2	14215.3	21788.0	26984.2	32694.2	33035.1
65°	2189.0	2232.9	2517.7	4197.9	6496.5	11317.7	19603.9	26694.5	35143.8	35832.9
67.5°	1590.0	1611.9	1789.7	2564.0	3854.5	8205.8	16180.3	25233.5	36441.6	37593.3
70°	1222.3	1237.0	1366.0	1685.0	2276.7	5064.7	11751.1	22328.6	35501.7	36877.5
72.5°	993.5	1008.1	1107.9	1246.7	1509.7	2995.0	7122.3	18133.1	31352.5	32837.9
75°	837.6	857.1	947.2	1037.3	1183.4	1923.6	3340.8	12627.7	23577.7	24551.7
77.5°	465.1	428.6	769.4	859.5	998.3	1217.5	1563.2	7431.5	13204.8	13475.1
80°	289.8	299.5	611.2	691.5	767.0	613.6	715.9	2861.1	4577.7	4348.8
82.5°	17.0	39.0	469.9	499.2	526.0	263.0	270.3	971.5	1103.0	1012.9
85°	0.0	0.0	214.3	172.9	182.6	75.5	77.9	226.5	148.5	160.7
87.5°	0.0	0.0	0.0	4.9	0.0	7.3	14.6	19.5	7.3	9.7
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°
4521.7	0°	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7	4521.7
4753.0	2.5°	4582.6	4412.1	4066.4	3727.9	3452.8	3197.1	3014.5	2841.6	2753.9	2749.1
5059.8	5°	4721.4	4363.4	3671.9	3060.7	2568.9	2174.4	1918.7	1736.1	1643.6	1611.9
5437.3	7.5°	4916.2	4378.1	3326.2	2476.4	1896.8	1558.4	1412.3	1353.8	1334.4	1312.4
5863.4	10°	5162.1	4412.1	3016.9	1994.2	1495.1	1324.6	1266.2	1241.8	1227.2	1212.6
6343.1	12.5°	5437.3	4443.8	2710.1	1655.8	1314.9	1227.2	1185.8	1156.6	1137.1	1120.1
6834.9	15°	5705.1	4463.3	2391.1	1419.6	1222.3	1151.7	1107.9	1076.3	1049.5	1030.0
7317.1	17.5°	5970.5	4490.1	2091.6	1278.4	1146.9	1076.3	1032.4	993.5	971.5	949.6
7823.5	20°	6265.2	4485.2	1809.2	1178.5	1071.4	1000.8	954.5	918.0	896.1	871.7
8359.2	22.5°	6537.9	4460.8	1560.8	1093.3	993.5	925.3	874.2	837.6	815.7	796.2
8907.1	25°	6852.0	4441.4	1353.8	1015.4	920.4	852.2	796.2	762.1	737.8	720.7
9457.4	27.5°	7153.9	4412.1	1202.9	944.8	849.8	784.1	730.5	691.5	669.6	657.4
10024.7	30°	7451.0	4404.8	1146.9	876.6	786.5	720.7	667.2	630.7	613.6	608.7
10648.1	32.5°	7808.9	4424.3	1171.2	852.2	728.1	662.3	611.2	584.4	567.3	567.3
11342.0	35°	8191.2	4419.5	1207.7	874.2	689.1	603.9	564.9	547.9	530.8	530.8
12111.5	37.5°	8670.9	4426.8	1237.0	910.7	674.5	555.2	533.3	511.3	501.6	501.6
12954.0	40°	9386.8	4667.8	1222.3	942.3	669.6	521.1	477.3	469.9	462.6	462.6
13906.1	42.5°	10263.4	5191.3	1241.8	944.8	667.2	496.7	438.3	452.9	435.9	433.4
14979.9	45°	11222.7	5763.5	1366.0	893.6	664.7	484.6	418.8	435.9	409.1	409.1
16224.1	47.5°	12174.8	6330.9	1492.6	820.6	657.4	482.1	401.8	392.0	384.7	387.2
17845.8	50°	13487.2	6793.5	1541.3	720.7	640.4	477.3	370.1	372.5	367.7	372.5
20132.2	52.5°	14916.6	6890.9	1482.9	608.7	591.7	462.6	348.2	357.9	355.5	360.4
21741.8	55°	15807.8	6786.2	1224.8	506.5	516.2	404.2	326.3	345.8	345.8	345.8
23314.7	57.5°	16728.2	6340.6	869.3	411.5	428.6	331.2	306.8	333.6	331.2	328.7
25209.1	60°	17390.5	5619.9	572.2	338.5	340.9	272.7	284.9	314.1	311.7	299.5
27162.0	62.5°	17884.8	4823.7	367.7	287.3	260.5	245.9	260.5	284.9	275.2	248.4
28817.7	65°	17828.8	3720.6	282.5	245.9	214.3	214.3	226.5	248.4	219.1	175.3
29134.3	67.5°	16789.0	2517.7	233.8	207.0	180.2	177.8	187.5	207.0	187.5	148.5
27512.6	70°	14931.2	1646.0	187.5	160.7	143.7	131.5	151.0	177.8	158.3	119.3
23421.9	72.5°	12118.8	1003.2	141.2	116.9	104.7	85.2	119.3	146.1	126.6	87.7
16287.4	75°	7840.6	511.3	97.4	75.5	56.0	51.1	87.7	109.6	87.7	53.6
7227.0	77.5°	2999.9	214.3	53.6	34.1	29.2	24.3	48.7	65.7	36.5	12.2
1400.1	80°	577.1	90.1	26.8	17.0	14.6	9.7	7.3	4.9	0.0	0.0
248.4	82.5°	99.8	29.2	9.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0
48.7	85°	34.1	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.0	87.5°	12.2	0.0	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>
4521.7
2744.2
1607.1
1307.6
1207.7
1115.2
1027.6
947.2
869.3
793.8
718.3
657.4
606.3
567.3
530.8
501.6
462.6
431.0
409.1
387.2
372.5
360.4
345.8
328.7
299.5
243.5
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