

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: P943968

Luminaire Tested: **GALN-SB8C-940-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943968  
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-SB8C-940-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

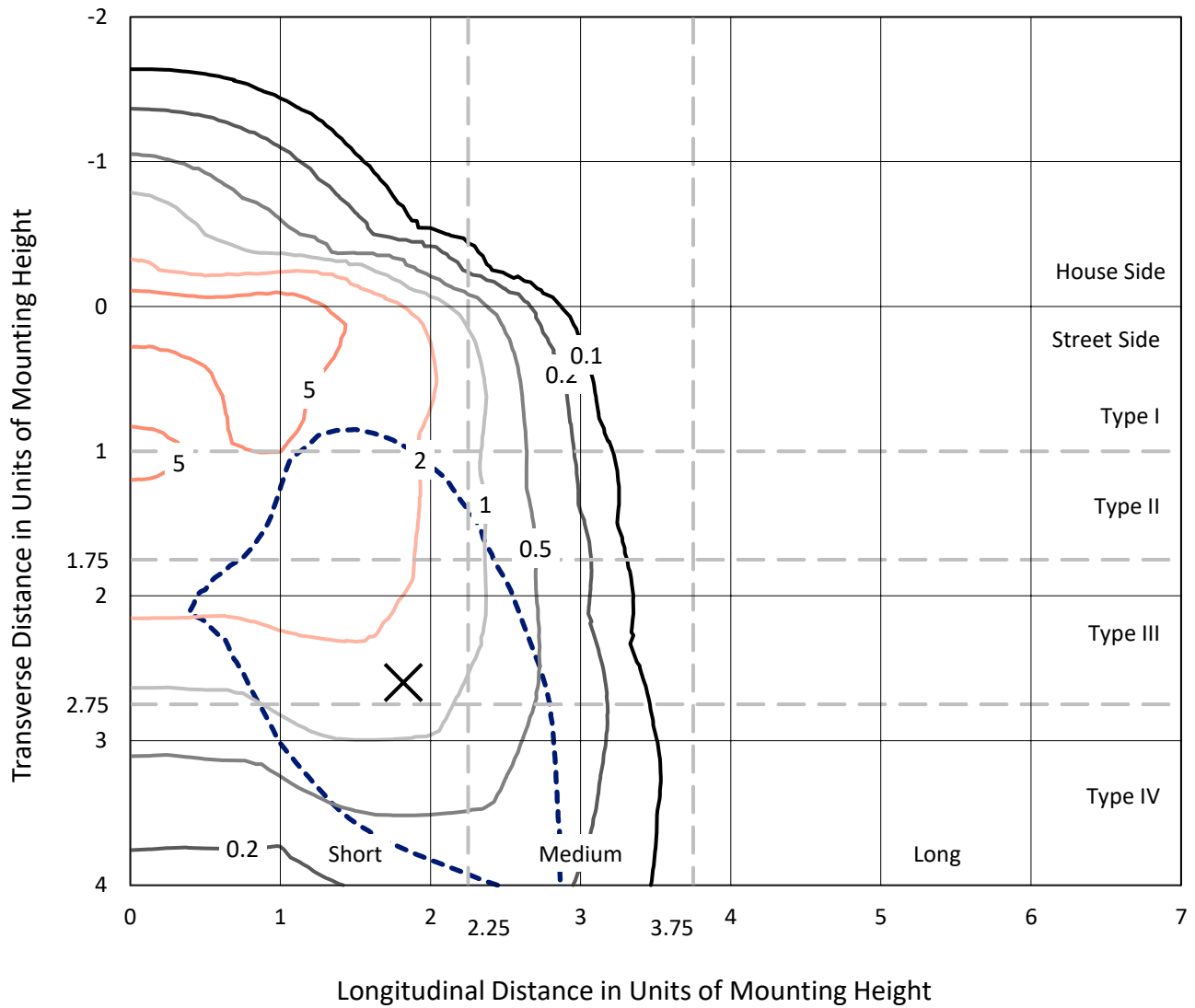
Lumens per Lamp: N/A  
Luminaire Lumens: 33226 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

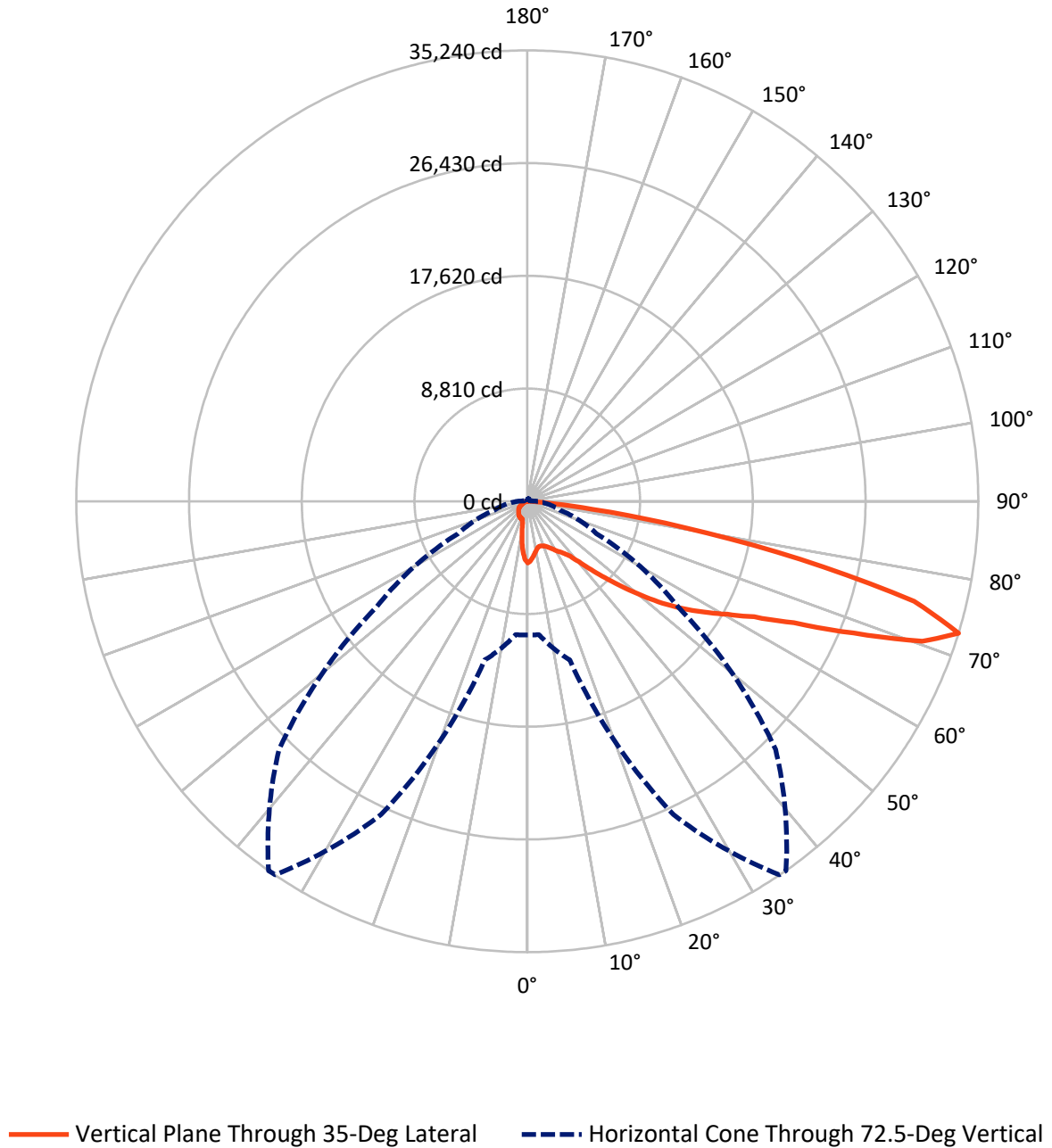
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3739.4	0.0	3739.4
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	29486.6	0.0	29486.6
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	33226.0	0.0	33226.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.7	1.2
10°-20°	925.7	2.8
20°-30°	1503.8	4.5
30°-40°	2509.1	7.6
40°-50°	4747.3	14.3
50°-60°	7543.4	22.7
60°-70°	9331.7	28.1
70°-80°	5800.6	17.5
80°-90°	468.8	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°	33226.0	100.0
0°-180°	33226.0	100.0

**Coefficient of Utilization**



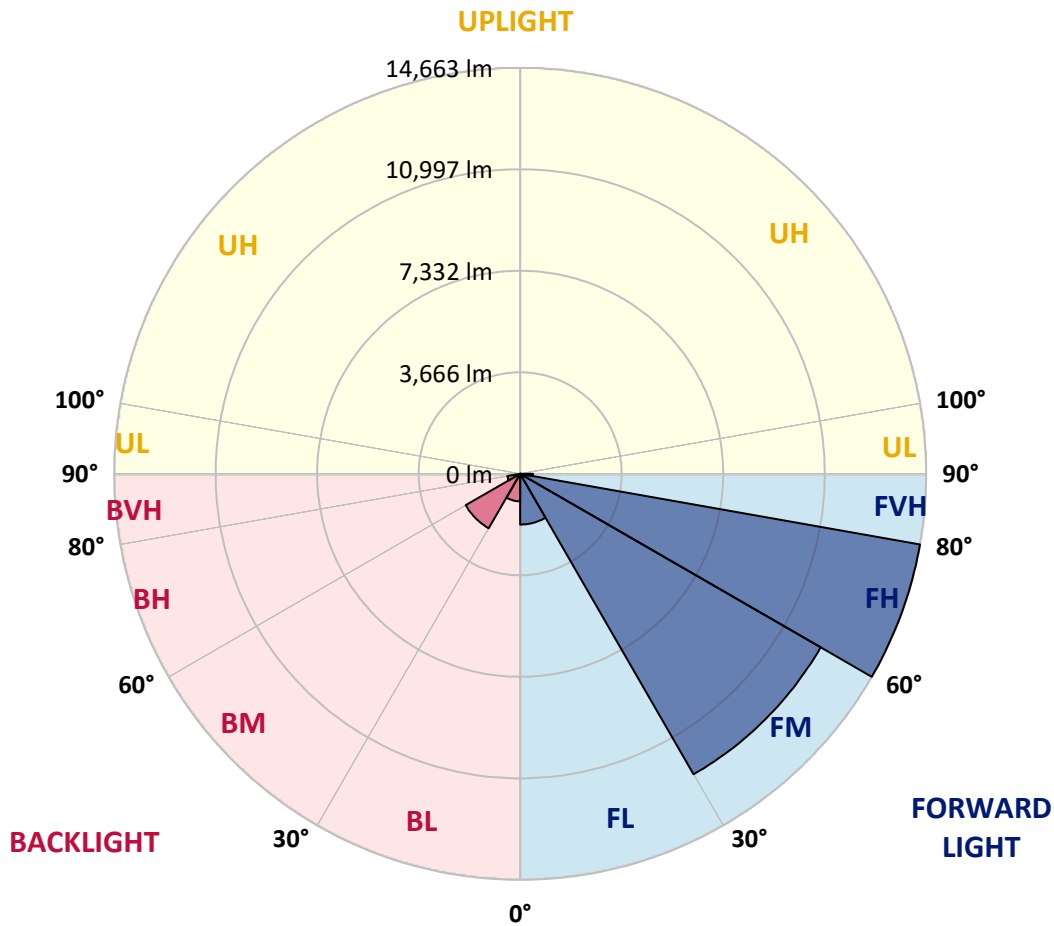
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1831.6	5.5			
FM (30°-60°)	12529.5	37.7			
FH (60°-80°)	14663.0	44.1			G5
FVH (80°-90°)	462.4	1.4			G3/500
BL (0°-30°)	993.6	3.0	B2/1000		
BM (30°-60°)	2270.2	6.8	B2/2500		
BH (60°-80°)	469.2	1.4	B1/500		G1/500
BVH (80°-90°)	6.4	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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4815.6	4815.6	4815.6	4815.6	4815.6	4815.6	4815.6	4815.6	4815.6	4815.6
2.5°	4601.3	4640.3	4647.6	4659.7	4659.7	4674.4	4698.7	4732.8	4788.8	4818.0
5°	4241.0	4270.2	4306.7	4336.0	4391.9	4399.3	4494.2	4586.7	4715.7	4813.1
7.5°	3878.3	3912.3	3961.0	4031.6	4104.7	4126.6	4270.2	4426.0	4630.5	4813.1
10°	3622.6	3625.1	3668.9	3739.5	3856.3	3883.1	4058.4	4280.0	4535.6	4783.9
12.5°	3479.0	3496.0	3515.5	3569.1	3681.1	3698.1	3885.6	4146.1	4440.6	4766.9
15°	3479.0	3491.2	3503.3	3530.1	3620.2	3634.8	3800.3	4060.8	4391.9	4774.2
17.5°	3515.5	3535.0	3525.2	3556.9	3651.8	3661.6	3807.7	4036.5	4389.5	4820.4
20°	3603.2	3617.8	3598.3	3617.8	3712.7	3732.2	3883.1	4082.8	4430.9	4900.8
22.5°	3741.9	3749.2	3703.0	3717.6	3815.0	3839.3	4014.6	4214.2	4530.7	5029.8
25°	3917.2	3931.8	3861.2	3878.3	3970.8	4000.0	4202.1	4411.4	4689.0	5207.5
27.5°	4119.3	4126.6	4065.7	4063.3	4182.6	4224.0	4428.5	4654.9	4900.8	5431.5
30°	4350.6	4372.5	4314.0	4304.3	4455.2	4489.3	4691.4	4954.3	5212.4	5767.5
32.5°	4533.2	4550.2	4516.1	4540.5	4693.8	4720.6	5010.3	5377.9	5701.7	6244.6
35°	4796.1	4805.8	4727.9	4771.7	4947.0	5015.2	5446.1	5972.0	6317.7	6843.6
37.5°	5748.0	5748.0	5416.9	5200.2	5368.2	5429.1	6042.6	6719.4	7077.3	7647.0
40°	7065.1	7043.2	6558.7	6115.6	6093.7	6213.0	6892.2	7661.6	8058.4	8611.0
42.5°	8469.8	8435.8	7776.0	7337.8	7264.7	7306.1	7873.4	8822.8	9227.0	9786.9
45°	9716.3	9706.6	9102.8	8513.7	8382.2	8513.7	9098.0	10181.3	10471.0	11060.2
47.5°	10760.8	10760.8	10320.1	9935.4	9867.3	9945.2	10755.9	11688.3	11661.5	12416.3
50°	11963.4	11953.7	11534.9	11369.4	11440.0	11549.6	12664.6	13275.7	12893.4	13748.0
52.5°	12805.8	12864.2	12720.6	12693.8	13054.1	13244.0	14602.5	14828.9	13996.3	15011.5
55°	13472.9	13541.0	13706.6	13894.0	14587.9	14836.2	16479.5	16301.8	14919.0	16107.1
57.5°	14417.5	14320.1	14575.7	14945.8	16068.1	16367.6	18298.2	17692.0	15661.5	16995.7
60°	15564.1	15578.8	15622.6	16090.0	17545.9	17930.5	20090.0	19006.6	16138.7	17541.0
62.5°	16942.1	16964.0	17054.1	17772.3	19530.0	19892.8	21998.7	20082.7	16357.8	17387.6
65°	16847.2	16939.7	17945.1	20401.6	22546.5	22904.3	24226.3	20837.4	16026.7	15985.3
67.5°	15347.5	15498.4	17180.7	23542.2	27094.2	27493.5	26918.9	20985.9	14597.6	12430.9
70°	13380.3	13433.9	15457.0	26366.3	32360.2	32764.3	29329.2	19352.3	11077.3	6933.6
72.5°	10449.1	10461.3	12835.0	27021.2	35218.4	35240.3	27437.5	14366.3	5957.4	2663.4
75°	7464.4	7391.3	8596.4	21913.5	30984.7	31233.0	20569.6	6738.9	2276.3	1258.7
77.5°	4002.4	4082.8	4864.3	12995.7	21404.7	21828.3	11223.3	1942.8	1158.9	857.0
80°	1236.8	1304.9	1993.9	5950.1	12124.1	12379.7	4160.7	864.3	808.3	611.1
82.5°	389.5	404.1	930.0	2500.3	5032.2	5149.1	1205.1	489.3	552.6	404.1
85°	112.0	114.4	413.9	932.4	1244.1	1268.4	338.4	189.9	316.5	250.8
87.5°	12.2	39.0	155.8	155.8	109.6	107.1	36.5	41.4	90.1	31.6
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°
4815.6	0°	4815.6	4815.6	4815.6	4815.6	4815.6	4815.6	4815.6	4815.6	4815.6	4815.6
4837.5	2.5°	4825.3	4827.7	4796.1	4742.5	4684.1	4635.4	4574.5	4525.8	4491.8	4482.0
4881.3	5°	4859.4	4842.3	4752.3	4589.1	4394.4	4226.4	4038.9	3890.4	3793.0	3751.7
4927.6	7.5°	4910.5	4861.8	4664.6	4343.3	3970.8	3639.7	3303.7	3043.2	2877.7	2794.9
4971.4	10°	4954.3	4856.9	4518.5	3987.8	3418.1	2916.6	2463.8	2149.7	1974.4	1891.7
5022.5	12.5°	4995.7	4854.5	4328.6	3566.6	2794.9	2181.4	1760.2	1604.4	1555.7	1538.6
5105.3	15°	5073.6	4861.8	4090.1	3084.6	2174.1	1648.2	1494.8	1492.4	1502.1	1497.3
5231.9	17.5°	5180.7	4869.1	3819.8	2573.3	1677.4	1453.4	1446.1	1468.0	1482.6	1475.3
5390.1	20°	5319.5	4898.3	3532.5	2066.9	1441.3	1404.7	1421.8	1441.3	1453.4	1441.3
5601.9	22.5°	5514.3	4949.5	3218.5	1660.4	1365.8	1375.5	1390.1	1412.0	1424.2	1407.2
5872.2	25°	5752.9	5029.8	2909.3	1443.7	1329.3	1341.4	1363.4	1387.7	1402.3	1385.3
6213.0	27.5°	6062.1	5158.8	2624.5	1395.0	1292.8	1300.1	1331.7	1368.2	1387.7	1365.8
6697.5	30°	6510.0	5370.6	2378.6	1416.9	1270.8	1253.8	1297.6	1348.7	1370.7	1351.2
7357.2	32.5°	7104.0	5670.1	2227.6	1451.0	1261.1	1200.2	1241.6	1307.4	1343.9	1331.7
8219.1	35°	7883.1	6125.4	2169.2	1490.0	1253.8	1144.2	1173.5	1244.1	1307.4	1319.5
9304.9	37.5°	8827.7	6758.3	2186.2	1507.0	1231.9	1098.0	1112.6	1173.5	1256.2	1295.2
10527.0	40°	9901.4	7496.0	2283.6	1490.0	1207.5	1059.0	1061.5	1107.7	1180.8	1239.2
11841.7	42.5°	11009.1	8357.8	2463.8	1426.7	1185.6	1025.0	1017.6	1049.3	1098.0	1139.4
13153.9	45°	12063.2	9244.0	2641.5	1339.0	1158.9	990.9	973.8	986.0	995.7	1012.8
14432.1	47.5°	12983.5	9867.3	2590.4	1258.7	1122.3	951.9	922.7	917.8	888.6	886.2
15573.9	50°	13618.9	10003.6	2300.7	1178.3	1068.8	908.1	861.8	832.6	781.5	757.1
16428.4	52.5°	13821.0	9465.6	1879.5	1098.0	981.1	849.7	783.9	737.7	674.4	652.5
16920.2	55°	13553.2	8411.4	1502.1	1000.6	859.4	771.8	698.7	637.9	586.7	559.9
16973.8	57.5°	12898.3	7070.0	1188.1	886.2	730.4	684.1	611.1	550.2	506.4	479.6
16379.7	60°	11812.5	5614.1	939.7	749.8	623.2	589.2	513.7	474.7	435.8	404.1
14846.0	62.5°	10164.3	4007.3	737.7	594.0	521.0	482.0	438.2	409.0	362.7	318.9
12087.6	65°	7931.8	2451.6	569.7	435.8	418.7	399.3	372.5	345.7	289.7	245.9
7885.5	67.5°	5003.0	1161.3	406.6	328.7	331.1	321.4	309.2	287.3	245.9	206.9
3532.5	70°	2203.3	562.4	267.8	250.8	245.9	245.9	255.6	248.3	209.4	172.9
1227.0	72.5°	749.8	301.9	199.6	189.9	177.7	175.3	214.2	206.9	168.0	133.9
611.1	75°	392.0	202.1	146.1	136.3	107.1	129.0	170.4	160.7	119.3	87.6
404.1	77.5°	255.6	143.6	99.8	87.6	60.9	85.2	126.6	112.0	70.6	43.8
265.4	80°	160.7	94.9	58.4	41.4	29.2	46.3	68.2	48.7	26.8	9.7
155.8	82.5°	85.2	48.7	21.9	14.6	12.2	14.6	17.0	12.2	4.9	0.0
80.3	85°	34.1	17.0	7.3	4.9	2.4	0.0	4.9	2.4	0.0	0.0
14.6	87.5°	12.2	2.4	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>
4815.6
4499.1
3766.3
2807.0
1894.1
1533.8
1494.8
1472.9
1438.8
1404.7
1382.8
1365.8
1348.7
1331.7
1319.5
1304.9
1258.7
1156.4
1022.5
883.7
759.6
650.0
559.9
474.7
396.8
311.6
238.6
202.1
165.6
126.6
80.3
39.0
7.3
0.0
0.0
0.0
0.0

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