

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: P939317

Luminaire Tested: **GALN-SB1D-835-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-835-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9448 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

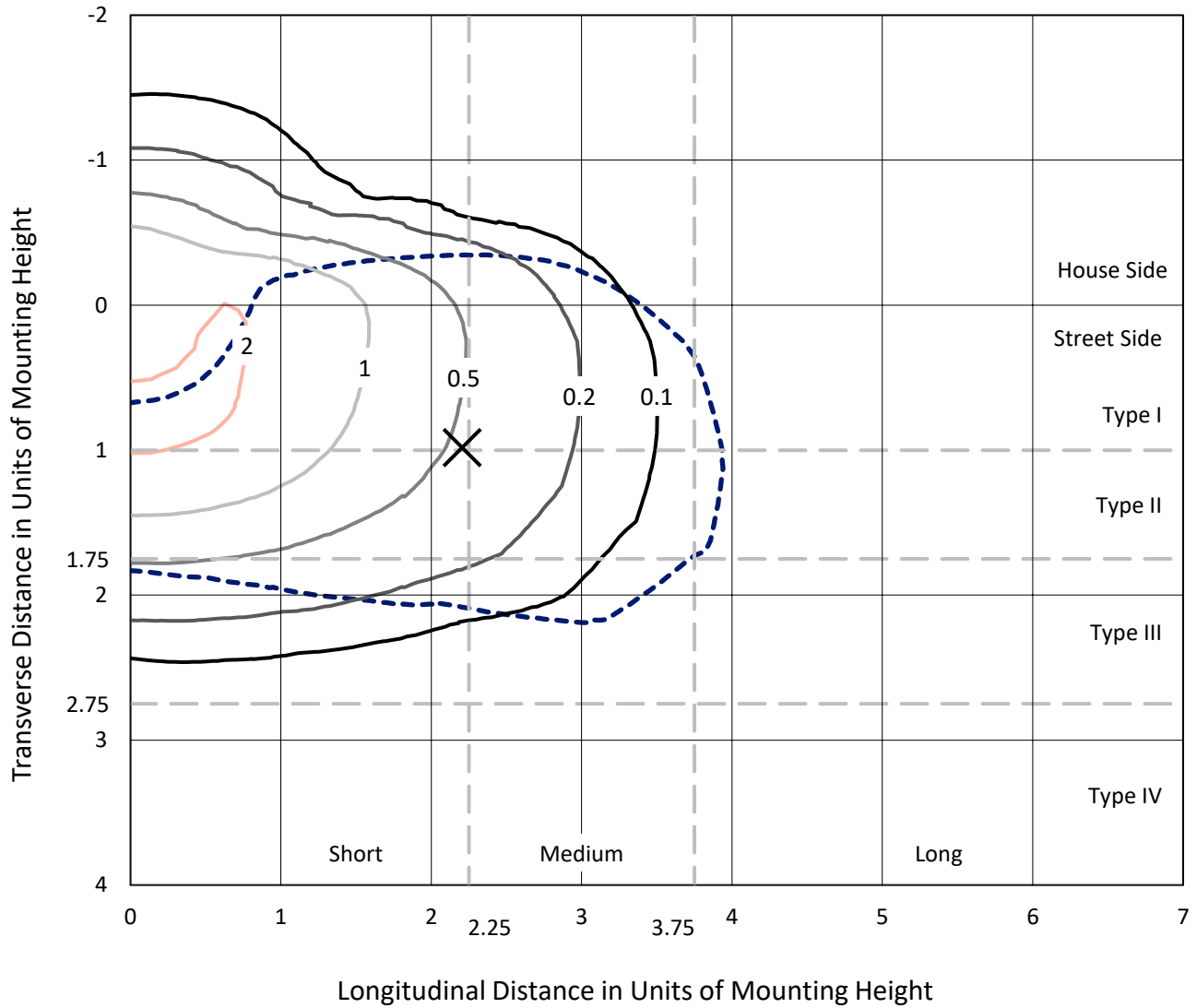
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

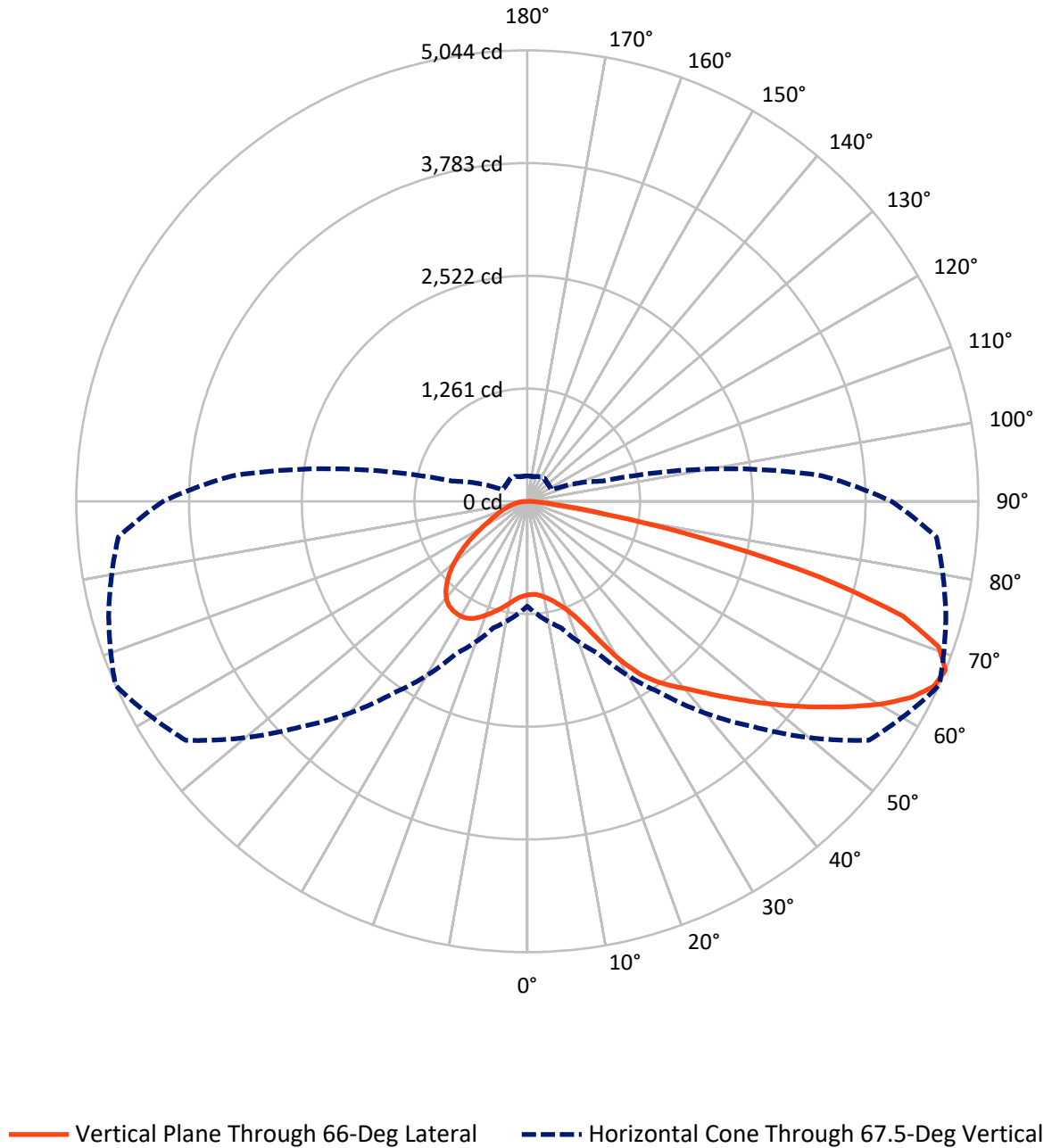
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2349.2	0.0	2349.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	7098.8	0.0	7098.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	9448.0	0.0	9448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	1.1
10°-20°	343.3	3.6
20°-30°	661.6	7.0
30°-40°	1160.0	12.3
40°-50°	1724.6	18.3
50°-60°	2186.1	23.1
60°-70°	2139.1	22.6
70°-80°	1020.3	10.8
80°-90°	109.0	1.2
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°	9448.0	100.0
0°-180°	9448.0	100.0

Coefficient of Utilization



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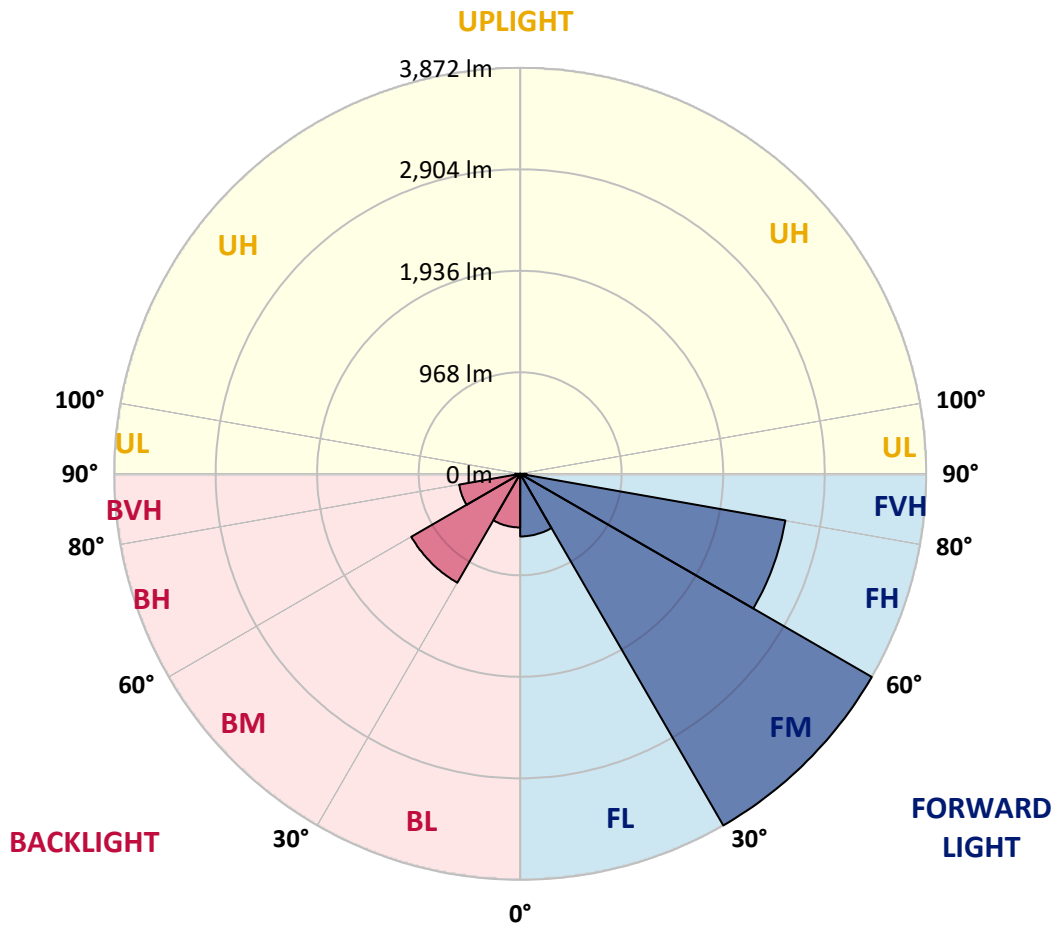
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	597.0	6.3			
FM (30°-60°)	3871.7	41.0			
FH (60°-80°)	2568.2	27.2			G2/5000
FVH (80°-90°)	61.8	0.7			G1/100
BL (0°-30°)	511.7	5.4	B2/1000		
BM (30°-60°)	1199.1	12.7	B2/2500		
BH (60°-80°)	591.2	6.3	B2/1000		G2/1000
BVH (80°-90°)	47.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9
2.5°	1037.0	1042.9	1041.5	1039.0	1038.5	1039.5	1041.0	1042.4	1042.0	1044.4
5°	1034.0	1040.0	1039.5	1039.5	1041.5	1045.4	1047.9	1050.4	1047.9	1050.9
7.5°	1036.0	1040.5	1042.4	1044.4	1049.4	1056.8	1062.8	1068.3	1065.3	1068.8
10°	1061.3	1064.8	1066.8	1066.8	1070.2	1078.7	1084.6	1094.6	1092.1	1097.5
12.5°	1107.5	1111.0	1111.0	1109.0	1111.4	1116.9	1118.9	1129.8	1125.3	1134.3
15°	1164.1	1171.0	1165.6	1162.1	1163.1	1168.5	1168.0	1176.5	1172.0	1179.5
17.5°	1226.6	1235.5	1226.6	1226.1	1224.1	1230.1	1230.6	1238.0	1230.1	1235.5
20°	1300.6	1313.0	1305.5	1308.0	1303.6	1306.0	1308.5	1319.4	1307.0	1311.0
22.5°	1404.8	1419.7	1411.8	1421.2	1418.2	1416.2	1415.7	1435.1	1415.7	1417.2
25°	1556.7	1574.6	1560.7	1573.6	1573.6	1580.1	1587.5	1612.3	1580.1	1570.6
27.5°	1781.1	1799.0	1771.7	1779.6	1777.1	1793.0	1785.1	1846.6	1811.9	1796.5
30°	2051.1	2082.9	2031.3	2029.3	2026.8	2052.1	2063.5	2104.3	2069.0	2053.6
32.5°	2343.0	2376.3	2314.7	2296.9	2287.4	2302.8	2293.4	2326.1	2301.8	2278.0
35°	2651.8	2684.6	2626.0	2591.2	2553.5	2521.2	2487.5	2495.9	2473.1	2436.8
37.5°	2943.7	3003.7	2941.7	2904.5	2835.0	2771.9	2677.6	2638.4	2617.0	2583.8
40°	3241.0	3275.3	3228.1	3196.3	3120.9	3022.1	2871.2	2788.3	2759.5	2727.2
42.5°	3459.9	3492.7	3467.4	3445.5	3386.5	3271.8	3076.7	2973.0	2931.3	2895.0
45°	3633.7	3658.0	3642.1	3650.1	3624.7	3513.5	3289.7	3171.0	3127.8	3083.7
47.5°	3703.7	3729.5	3754.8	3802.0	3845.1	3763.2	3518.5	3385.5	3339.8	3294.6
50°	3695.7	3722.0	3795.5	3895.8	4029.8	4002.5	3759.8	3613.8	3571.6	3520.0
52.5°	3632.2	3662.0	3756.3	3923.1	4136.5	4181.7	4005.5	3849.6	3809.9	3748.3
55°	3465.4	3483.3	3624.7	3861.0	4161.8	4306.8	4246.2	4100.8	4061.1	3975.2
57.5°	3156.1	3181.9	3388.0	3693.7	4098.3	4391.7	4457.7	4364.9	4326.7	4203.0
60°	2752.6	2793.8	3029.6	3412.8	3936.5	4391.2	4649.8	4624.5	4592.7	4427.4
62.5°	2295.9	2343.5	2570.4	3015.7	3653.5	4266.6	4769.9	4841.9	4825.5	4634.4
65°	1763.2	1796.0	2021.9	2501.9	3213.2	3999.0	4783.8	4990.3	4993.3	4791.8
67.5°	1174.0	1268.3	1464.4	1877.4	2623.5	3561.7	4661.7	5014.7	5043.5	4845.9
70°	572.8	697.0	889.1	1220.2	1877.4	2891.1	4342.5	4815.1	4879.2	4688.0
72.5°	237.8	278.0	382.7	602.1	1077.7	1950.9	3701.2	4274.0	4392.7	4153.9
75°	160.3	173.7	218.9	308.8	490.9	962.0	2669.2	3186.9	3378.0	3137.3
77.5°	123.6	132.0	159.3	215.9	291.9	363.9	1428.6	1920.6	2019.4	1869.5
80°	97.3	103.7	119.1	157.4	207.0	194.6	487.0	870.2	927.3	777.9
82.5°	84.4	86.9	85.4	106.7	137.5	113.7	159.8	321.2	354.4	257.1
85°	61.1	68.0	71.0	66.0	73.0	57.6	65.5	113.7	125.1	111.7
87.5°	24.8	36.7	45.2	42.7	26.8	16.4	20.4	33.3	38.2	41.7
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°
1047.9	0°	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9
1048.4	2.5°	1048.9	1052.4	1054.9	1057.8	1059.8	1062.8	1068.8	1072.2	1072.7	1075.2
1056.3	5°	1058.3	1063.3	1068.8	1076.7	1085.6	1093.1	1104.5	1112.4	1115.4	1117.9
1075.7	7.5°	1078.7	1085.6	1095.6	1109.5	1122.4	1132.3	1146.2	1155.6	1165.1	1168.5
1106.5	10°	1109.0	1118.9	1133.3	1152.2	1166.1	1179.0	1193.4	1201.3	1210.7	1214.7
1143.2	12.5°	1146.7	1157.1	1176.0	1202.3	1215.2	1224.1	1229.1	1227.1	1229.1	1232.6
1187.4	15°	1189.9	1201.3	1222.6	1250.9	1259.9	1251.9	1241.0	1231.1	1229.6	1230.6
1241.0	17.5°	1241.0	1249.4	1274.3	1298.1	1291.6	1258.9	1235.1	1219.2	1211.2	1208.7
1309.5	20°	1312.5	1312.5	1332.8	1347.7	1304.5	1249.0	1211.7	1185.9	1169.5	1162.6
1402.8	22.5°	1399.4	1391.4	1404.3	1393.9	1302.1	1221.2	1169.5	1124.9	1100.0	1090.1
1533.4	25°	1509.6	1500.1	1496.7	1432.1	1284.2	1177.0	1093.1	1039.0	1017.1	1011.7
1721.5	27.5°	1675.9	1652.0	1606.9	1453.0	1251.4	1107.5	1003.7	953.6	941.2	941.7
1963.3	30°	1897.3	1849.6	1738.9	1456.4	1197.8	1009.2	912.4	876.6	870.7	873.2
2166.3	32.5°	2102.3	2057.1	1873.9	1440.6	1115.4	912.9	830.5	806.7	797.7	800.7
2321.2	35°	2263.1	2250.7	1999.0	1418.2	1014.2	822.5	757.0	736.7	719.3	715.3
2467.1	37.5°	2415.0	2410.0	2092.8	1387.0	913.9	758.5	697.9	671.1	645.8	631.9
2628.5	40°	2581.8	2576.8	2154.4	1338.8	825.0	702.9	644.8	609.6	578.3	553.0
2811.1	42.5°	2769.4	2740.1	2183.7	1269.8	749.6	655.7	601.6	554.0	512.8	489.5
3017.6	45°	2974.5	2908.4	2183.2	1181.9	686.0	612.6	555.5	488.0	449.7	427.9
3229.6	47.5°	3191.9	3069.3	2156.4	1084.6	624.5	564.9	484.0	432.4	407.1	393.6
3459.9	50°	3416.2	3219.7	2110.7	973.0	561.4	510.8	439.3	404.1	384.7	372.3
3688.3	52.5°	3627.2	3356.2	2055.6	846.4	497.4	458.2	419.5	392.2	371.8	357.9
3909.7	55°	3823.3	3473.8	1977.7	716.8	445.3	422.9	410.0	387.2	363.9	347.5
4134.5	57.5°	3997.5	3550.3	1843.1	595.2	408.0	398.6	400.1	378.8	352.0	338.1
4355.9	60°	4142.5	3606.4	1644.1	482.5	377.8	374.8	384.7	362.9	331.6	315.7
4543.1	62.5°	4229.4	3605.4	1399.9	395.1	352.0	352.9	364.4	343.0	311.2	296.4
4640.9	65°	4221.9	3517.0	1131.8	338.1	327.1	328.1	343.0	321.2	294.4	285.4
4591.7	67.5°	4072.5	3301.6	868.2	300.8	299.8	304.3	321.7	306.3	283.9	283.0
4298.9	70°	3667.9	2854.3	625.5	271.0	271.5	278.0	300.8	296.8	278.5	280.5
3614.3	72.5°	2941.2	2176.2	420.0	239.8	240.3	250.7	281.0	289.4	273.0	299.3
2564.4	75°	1958.8	1357.2	270.0	206.5	207.0	220.4	263.6	275.0	258.1	298.3
1334.3	77.5°	941.2	610.1	195.6	173.7	173.7	186.2	227.8	246.2	219.9	231.8
428.9	80°	325.1	229.3	153.9	140.0	137.0	145.4	192.1	213.5	189.6	174.7
140.0	82.5°	128.1	119.1	123.6	108.7	98.8	104.2	149.4	176.2	139.5	126.1
78.9	85°	73.5	77.4	87.4	72.0	57.1	64.0	109.7	126.6	105.2	92.8
25.8	87.5°	19.9	27.3	40.2	37.2	25.8	27.3	52.1	70.0	60.6	46.7
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>
1047.9
1074.7
1117.4
1169.0
1216.7
1233.6
1234.1
1212.2
1161.1
1088.6
1012.7
943.2
881.6
804.7
718.3
632.4
555.5
490.9
426.9
390.7
367.8
352.0
341.0
329.1
308.8
291.9
284.9
284.4
280.0
303.3
300.8
212.5
163.8
125.6
94.8
48.2
0.0

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