

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: P948021

Luminaire Tested: **GALN-SB3A-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9734 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

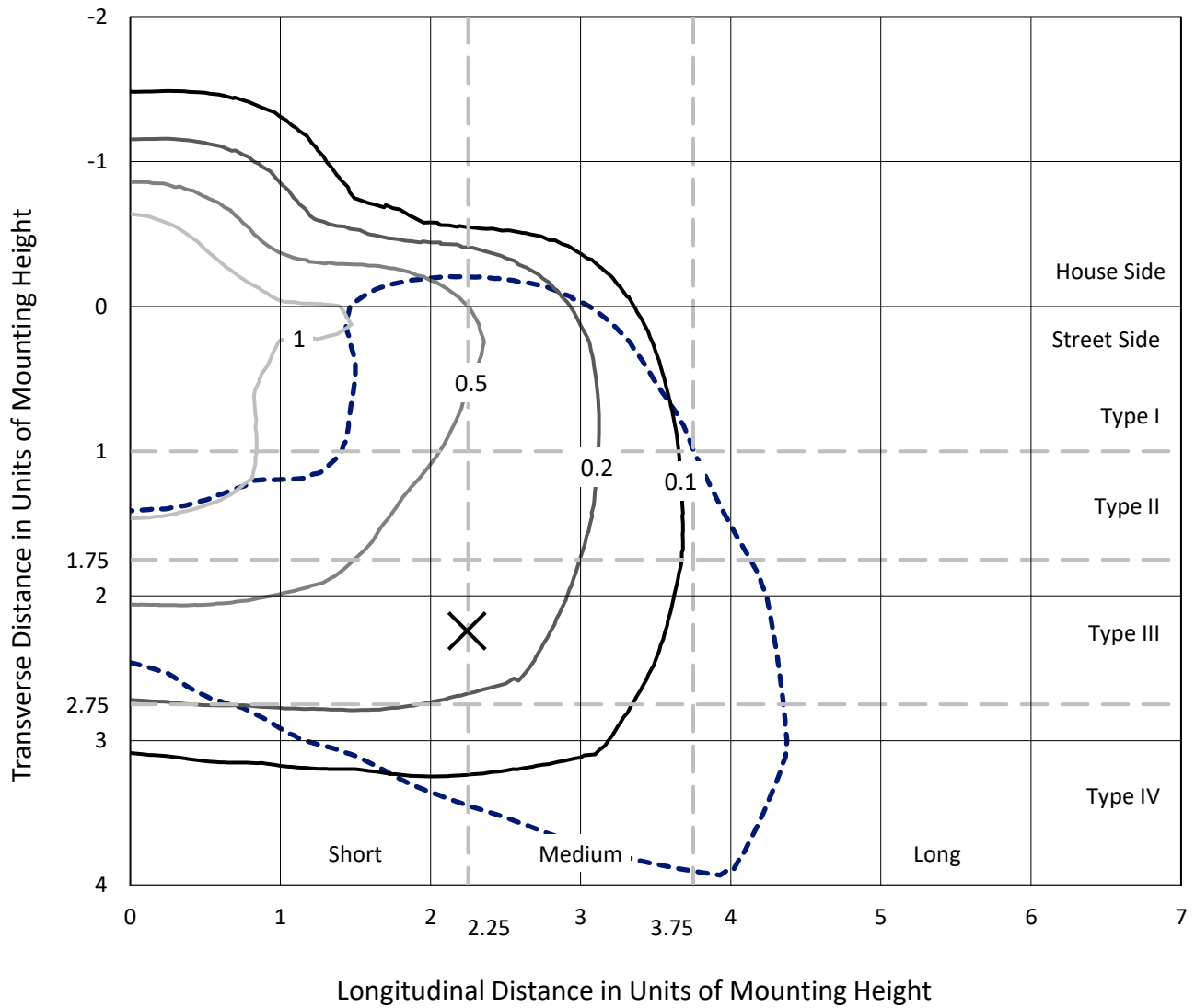
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

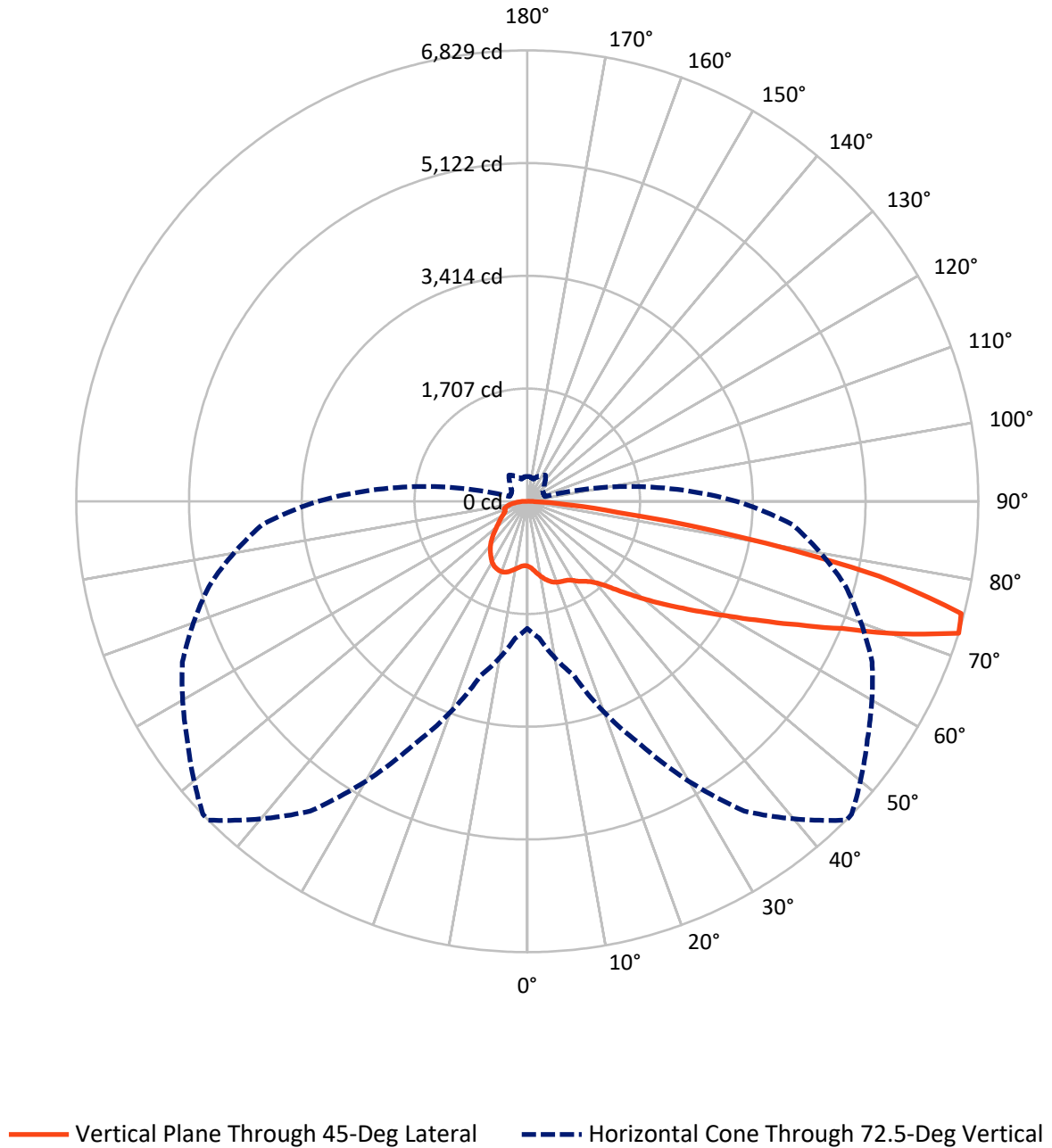
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	2200.5	0.0	2200.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	7533.5	0.0	7533.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	9734.0	0.0	9734.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.0
10°-20°	333.2	3.4
20°-30°	579.7	6.0
30°-40°	831.0	8.5
40°-50°	1170.1	12.0
50°-60°	1792.2	18.4
60°-70°	2596.3	26.7
70°-80°	2073.3	21.3
80°-90°	258.2	2.7
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°	9734.0	100.0
0°-180°	9734.0	100.0

Coefficient of Utilization



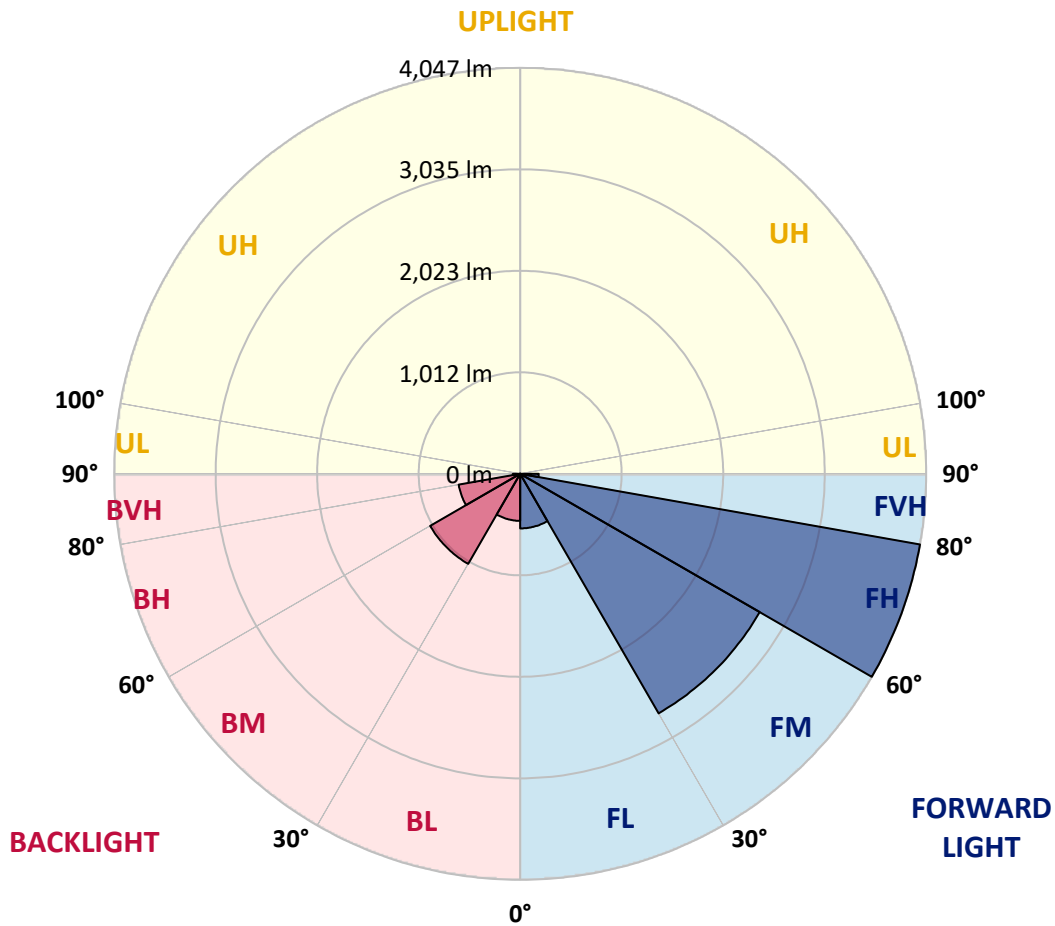
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	544.3	5.6			
FM (30°-60°)	2757.2	28.3			
FH (60°-80°)	4046.7	41.6			G2/5000
FVH (80°-90°)	185.3	1.9			G2/225
BL (0°-30°)	468.5	4.8	B1/500		
BM (30°-60°)	1036.1	10.6	B2/2500		
BH (60°-80°)	622.9	6.4	B2/1000		G2/1000
BVH (80°-90°)	73.0	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	982.0	982.0	982.0	982.0	982.0	982.0	982.0	982.0	982.0	982.0
2.5°	1020.4	1027.1	1020.9	1015.3	1012.7	1006.1	1005.6	1001.5	998.9	991.7
5°	1091.7	1100.4	1090.2	1078.9	1068.6	1052.2	1050.2	1038.4	1025.0	1009.7
7.5°	1172.2	1179.9	1168.1	1151.2	1133.2	1106.1	1105.6	1084.0	1063.0	1036.8
10°	1242.5	1252.7	1236.8	1213.7	1191.2	1160.4	1156.8	1132.2	1105.6	1071.7
12.5°	1304.5	1311.7	1296.3	1268.1	1241.9	1211.2	1206.6	1179.4	1149.6	1111.2
15°	1353.7	1363.0	1342.5	1312.2	1284.5	1254.3	1250.2	1225.5	1195.8	1155.3
17.5°	1386.0	1393.7	1372.7	1338.9	1312.2	1287.1	1284.0	1263.5	1237.3	1196.3
20°	1398.3	1406.6	1384.5	1350.1	1325.5	1306.0	1304.5	1289.6	1271.7	1234.3
22.5°	1410.7	1418.3	1389.6	1353.7	1332.2	1319.9	1319.4	1309.6	1302.5	1271.7
25°	1460.4	1462.4	1424.0	1372.2	1341.4	1330.7	1330.1	1329.6	1332.7	1308.6
27.5°	1503.5	1503.0	1470.1	1421.4	1373.7	1351.2	1350.7	1355.8	1365.5	1345.5
30°	1566.5	1560.9	1521.9	1471.2	1427.6	1392.7	1389.6	1385.0	1392.7	1376.8
32.5°	1700.4	1682.4	1619.4	1529.1	1472.2	1445.5	1441.4	1412.7	1415.8	1406.0
35°	1892.2	1868.6	1784.5	1638.8	1527.6	1489.6	1487.6	1451.2	1445.0	1436.3
37.5°	2120.3	2091.1	1993.2	1797.8	1622.9	1540.9	1537.8	1505.0	1479.9	1470.6
40°	2349.6	2312.6	2231.6	1991.6	1763.4	1626.5	1616.8	1567.1	1538.3	1523.0
42.5°	2572.1	2541.3	2472.1	2209.1	1936.8	1751.7	1730.1	1645.0	1623.5	1609.1
45°	2769.0	2741.3	2690.5	2441.3	2139.8	1921.9	1900.9	1761.9	1755.2	1755.2
47.5°	2929.0	2922.8	2869.0	2678.2	2379.3	2115.7	2079.3	1924.5	1942.4	1970.1
50°	3106.4	3089.5	3032.1	2911.6	2660.8	2337.8	2308.0	2123.9	2191.1	2267.0
52.5°	3269.5	3278.7	3214.6	3154.6	2978.7	2585.4	2533.1	2359.3	2504.4	2630.0
55°	3437.2	3437.7	3419.7	3411.5	3312.0	2859.3	2801.8	2642.3	2873.1	3029.0
57.5°	3594.6	3595.6	3622.3	3694.6	3698.7	3175.1	3110.0	2990.0	3282.8	3441.8
60°	3735.1	3742.3	3815.1	3984.3	4038.6	3537.1	3475.6	3400.7	3706.4	3866.4
62.5°	3782.3	3808.4	3970.4	4210.9	4374.5	3981.2	3920.7	3876.1	4151.5	4300.2
65°	3702.3	3762.3	4075.6	4398.1	4720.1	4508.9	4448.9	4400.2	4614.0	4754.0
67.5°	3505.9	3583.3	4069.4	4594.5	5139.6	5143.7	5087.8	4973.4	5109.8	5163.7
70°	2988.5	3104.4	3711.0	4667.8	5621.1	6011.8	5958.0	5663.6	5604.7	5344.2
72.5°	1925.5	2081.4	2732.6	4064.3	5728.3	6828.7	6825.6	6286.7	5761.1	4993.4
75°	702.5	797.9	1269.6	2551.1	4808.3	6787.1	6807.1	6180.0	5259.1	3857.1
77.5°	255.9	280.0	414.3	980.4	2957.2	5445.7	5487.2	4940.6	3743.3	1935.7
80°	134.3	147.7	212.3	380.5	1267.1	3234.1	3299.2	2936.2	1759.3	583.0
82.5°	74.4	80.5	119.0	206.6	570.7	1383.0	1421.9	1159.9	618.9	247.2
85°	40.0	42.6	55.9	112.8	279.0	479.4	490.2	346.6	246.6	145.1
87.5°	11.8	14.4	18.5	35.9	109.2	107.7	110.2	68.7	97.4	73.3
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°
982.0	0°	982.0	982.0	982.0	982.0	982.0	982.0	982.0	982.0	982.0	982.0
989.7	2.5°	986.6	985.0	979.4	976.8	973.8	973.3	975.8	976.3	976.8	977.4
1000.9	5°	995.8	990.7	985.6	982.5	983.5	984.0	989.2	992.7	995.3	997.4
1022.0	7.5°	1013.8	1009.7	1000.9	1000.4	1002.0	1006.6	1013.3	1021.5	1026.1	1029.7
1049.1	10°	1040.4	1032.7	1022.5	1024.0	1027.1	1033.8	1047.6	1054.3	1062.0	1068.6
1082.5	12.5°	1067.6	1060.9	1049.1	1050.2	1055.3	1067.1	1080.4	1088.6	1093.8	1098.9
1118.4	15°	1103.0	1091.2	1078.4	1078.4	1087.6	1100.4	1106.6	1113.2	1116.3	1122.0
1156.8	17.5°	1139.4	1124.0	1107.1	1106.1	1117.3	1123.5	1127.1	1128.1	1129.1	1135.3
1194.3	20°	1175.8	1158.9	1134.8	1132.7	1135.3	1134.3	1133.8	1132.7	1134.3	1142.0
1232.7	22.5°	1211.7	1192.2	1158.9	1149.6	1142.5	1132.7	1132.2	1131.7	1132.7	1140.4
1274.3	25°	1253.7	1230.2	1185.5	1157.9	1133.8	1120.4	1122.0	1122.5	1123.5	1129.7
1317.3	27.5°	1299.4	1273.2	1210.2	1155.3	1111.7	1102.5	1099.9	1101.4	1105.0	1114.8
1360.4	30°	1345.0	1314.3	1232.7	1145.0	1084.0	1071.2	1063.0	1066.6	1077.9	1087.6
1397.8	32.5°	1386.6	1355.8	1250.7	1122.5	1048.6	1028.6	1017.9	1022.5	1033.8	1037.4
1439.4	35°	1435.3	1400.4	1258.4	1086.6	1010.2	979.4	965.0	958.4	964.0	960.4
1488.1	37.5°	1489.6	1453.2	1257.3	1039.4	965.0	929.7	909.7	884.5	872.7	860.4
1559.9	40°	1570.1	1517.8	1245.0	982.5	909.2	876.9	841.0	798.4	771.7	747.6
1675.8	42.5°	1679.9	1607.6	1222.5	919.9	846.1	815.8	767.1	717.4	675.3	635.3
1851.6	45°	1843.4	1725.0	1194.3	853.3	777.9	748.1	695.3	639.4	591.7	540.5
2101.4	47.5°	2079.3	1882.9	1167.6	777.4	706.1	678.9	631.2	579.4	523.0	473.3
2462.4	50°	2403.4	2109.6	1143.0	703.5	635.3	614.8	576.9	524.1	467.1	427.1
2885.4	52.5°	2815.7	2417.8	1132.7	632.3	569.2	561.5	531.2	482.0	428.2	394.3
3378.7	55°	3289.0	2786.4	1132.7	564.1	511.2	513.8	492.8	447.1	400.5	370.2
3887.4	57.5°	3772.0	3159.7	1112.2	501.0	462.0	472.8	459.4	419.5	377.4	346.1
4422.2	60°	4217.1	3472.5	1029.1	443.6	418.4	435.3	426.6	392.3	341.0	314.8
4869.3	62.5°	4559.1	3648.9	869.2	397.9	382.5	402.0	397.4	356.4	334.3	323.6
5236.5	65°	4730.4	3620.2	664.6	357.4	352.3	382.5	372.8	371.3	353.8	341.5
5356.0	67.5°	4625.3	3373.1	482.0	327.7	334.8	364.6	402.0	408.2	375.9	351.8
5019.6	70°	4164.3	2925.9	358.9	299.5	312.8	365.1	458.4	427.1	368.7	340.5
4025.8	72.5°	3167.9	2181.9	278.4	269.7	284.1	367.7	483.6	418.4	348.2	376.4
2508.0	75°	1811.6	1197.9	223.6	233.3	248.2	343.6	470.7	395.9	332.3	345.6
993.8	77.5°	690.7	460.5	184.6	197.4	199.5	300.0	450.2	394.3	316.4	308.7
297.9	80°	239.5	180.0	152.8	156.9	154.3	266.6	431.8	343.0	259.0	231.8
123.1	82.5°	97.9	89.7	121.0	115.9	109.7	207.2	348.7	280.5	211.8	187.2
59.5	85°	42.6	56.9	80.0	70.3	63.6	143.6	279.5	237.4	179.0	154.3
19.5	87.5°	8.7	21.5	33.8	31.8	32.8	95.9	198.4	168.7	126.7	94.9
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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180°
982.0
979.4
998.4
1030.7
1067.1
1100.9
1124.0
1137.3
1145.0
1145.5
1137.9
1124.5
1098.4
1050.2
971.7
868.1
749.2
631.7
534.3
467.7
424.6
391.8
367.1
341.0
310.7
320.0
337.4
347.7
335.9
373.3
345.6
281.5
224.1
185.1
153.8
74.4
0.0

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