

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: P941046

Luminaire Tested: **GALN-SB4B-927-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941046  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4B-927-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

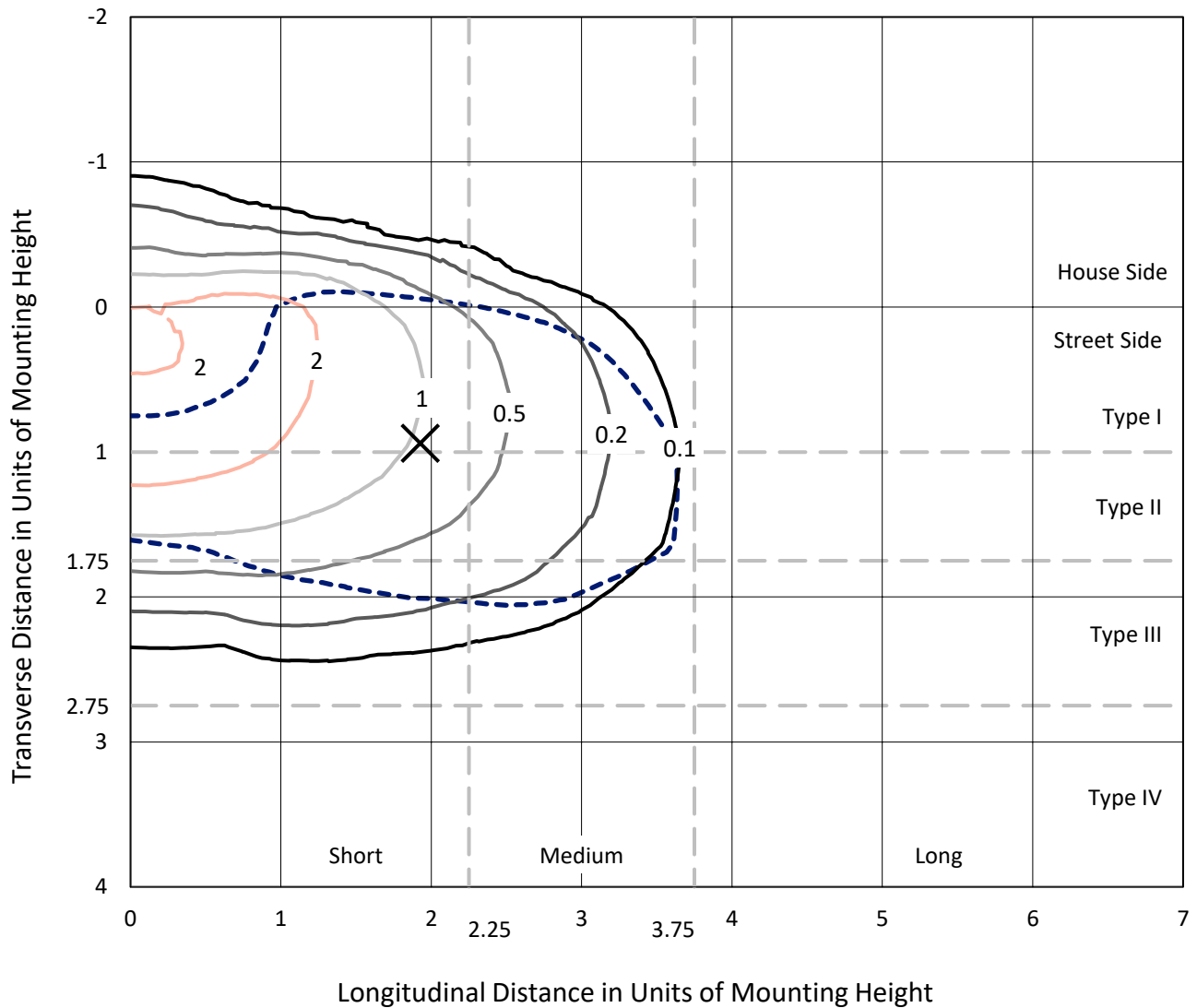
Lumens per Lamp: N/A  
Luminaire Lumens: 10774 lumens  
Efficiency: N/A  
Efficacy: 73.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

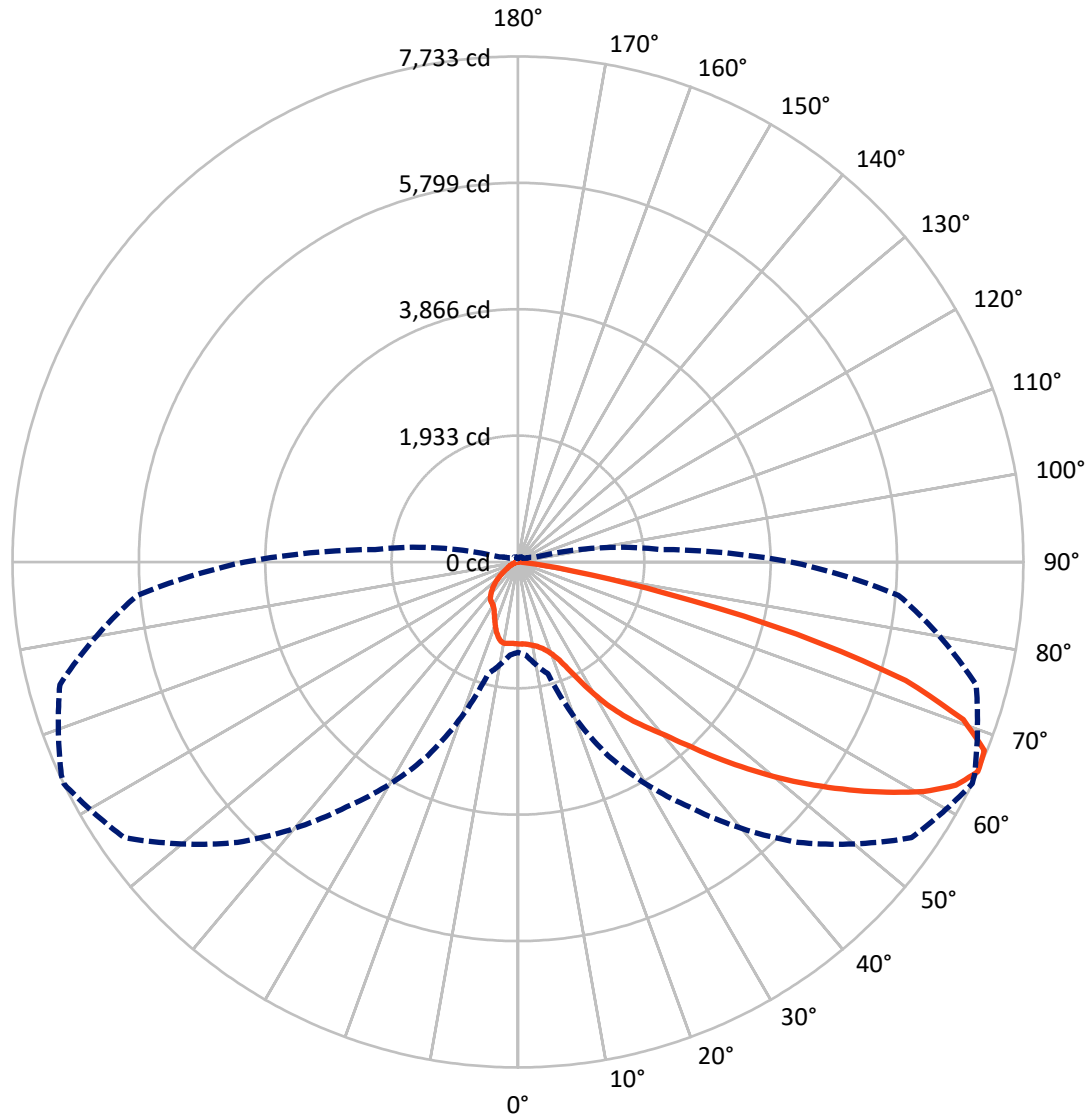
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1440.8	0.0	1440.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	9333.2	0.0	9333.2
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	10774.0	0.0	10774.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.6	1.1
10°-20°	313.6	2.9
20°-30°	594.2	5.5
30°-40°	1202.4	11.2
40°-50°	2048.3	19.0
50°-60°	2785.5	25.9
60°-70°	2615.7	24.3
70°-80°	1048.0	9.7
80°-90°	50.8	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°	10774.0	100.0
0°-180°	10774.0	100.0

**Coefficient of Utilization**



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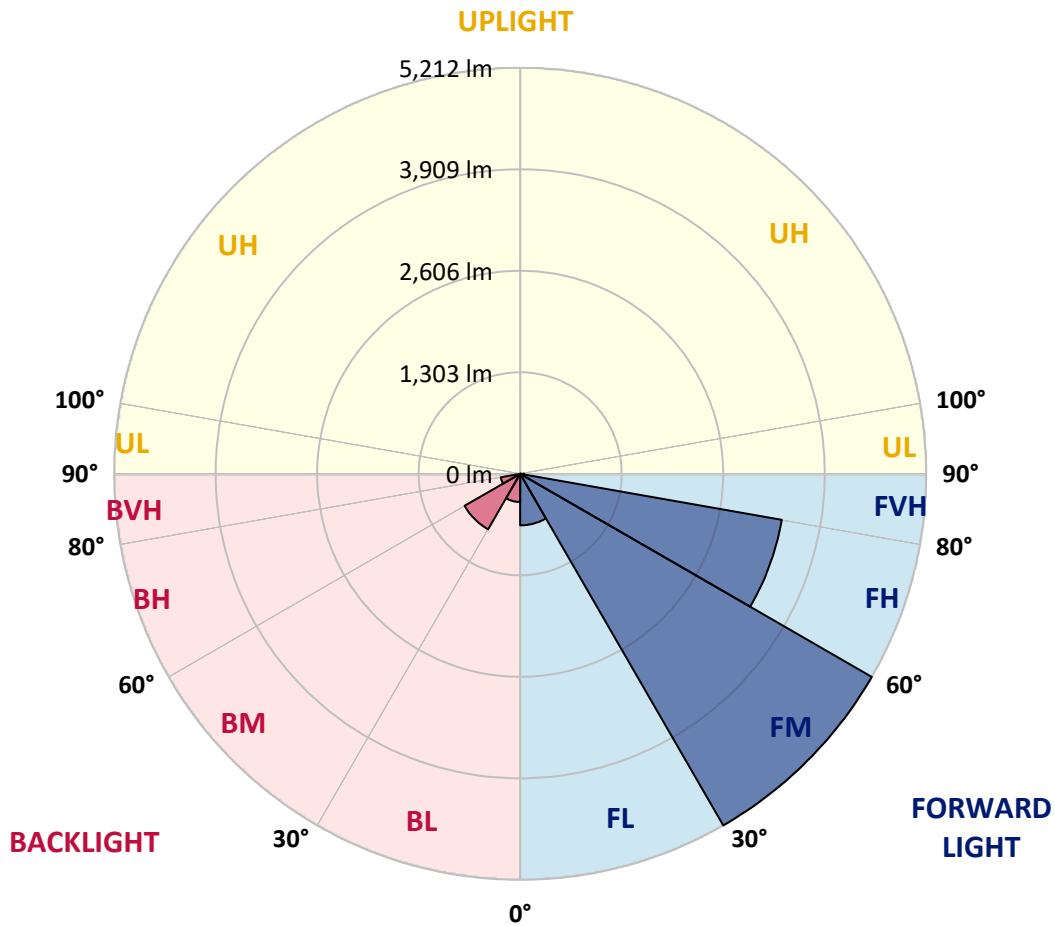
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	661.6	6.1			
FM (30°-60°)	5212.5	48.4			
FH (60°-80°)	3410.8	31.7			G2/5000
FVH (80°-90°)	48.3	0.4			G1/100
BL (0°-30°)	361.7	3.4	B1/500		
BM (30°-60°)	823.7	7.6	B1/1000		
BH (60°-80°)	252.9	2.3	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1253.1	1253.1	1253.1	1253.1	1253.1	1253.1	1253.1	1253.1	1253.1	1253.1
2.5°	1248.8	1257.5	1255.3	1253.1	1252.4	1253.9	1254.6	1253.9	1253.9	1253.9
5°	1225.0	1232.2	1232.2	1237.2	1244.5	1253.1	1259.6	1261.1	1262.5	1264.7
7.5°	1179.5	1185.2	1189.6	1206.2	1224.2	1247.3	1266.9	1277.0	1278.4	1286.4
10°	1148.4	1155.6	1162.8	1180.2	1206.2	1240.8	1274.1	1298.6	1302.2	1321.0
12.5°	1147.0	1154.2	1163.6	1182.3	1212.7	1249.5	1290.0	1325.4	1331.9	1359.3
15°	1162.1	1170.8	1179.5	1202.6	1235.1	1279.9	1323.2	1367.2	1373.7	1412.7
17.5°	1193.2	1204.7	1211.2	1234.3	1269.0	1318.9	1375.9	1426.5	1432.2	1477.8
20°	1254.6	1268.3	1270.5	1289.2	1323.2	1376.6	1444.5	1507.4	1514.6	1566.6
22.5°	1381.7	1401.2	1383.9	1393.2	1423.6	1477.0	1550.7	1630.1	1640.3	1699.5
25°	1605.6	1633.0	1588.3	1572.4	1585.4	1641.0	1733.4	1833.8	1845.4	1893.1
27.5°	2045.5	2010.1	1942.2	1875.7	1836.7	1868.5	1972.5	2096.7	2111.2	2157.4
30°	2528.6	2497.6	2405.9	2258.5	2166.1	2161.0	2257.1	2395.7	2412.4	2456.4
32.5°	3012.6	2983.0	2883.3	2702.0	2541.6	2462.2	2528.6	2682.5	2691.2	2719.3
35°	3488.5	3458.2	3358.5	3172.9	2975.7	2795.2	2782.2	2955.5	2958.4	2988.0
37.5°	3967.4	3942.1	3835.9	3653.9	3459.6	3210.5	3089.8	3214.1	3217.7	3246.6
40°	4309.0	4319.9	4246.9	4106.1	3939.2	3666.9	3435.1	3489.3	3467.6	3516.0
42.5°	4602.3	4623.9	4560.4	4489.6	4392.8	4153.0	3862.7	3853.3	3818.6	3844.6
45°	4855.8	4873.8	4816.8	4800.2	4798.0	4629.7	4330.0	4273.6	4225.2	4220.2
47.5°	4949.0	4983.6	5008.2	5063.8	5172.1	5101.4	4813.2	4725.8	4671.6	4631.9
50°	4984.3	5021.2	5105.0	5266.7	5523.2	5553.5	5294.2	5196.0	5129.5	5057.3
52.5°	4936.7	5002.4	5115.1	5387.4	5759.3	5916.1	5755.7	5669.8	5593.9	5476.2
55°	4655.7	4721.4	4951.8	5385.9	5877.1	6170.3	6192.0	6153.7	6068.5	5882.8
57.5°	4063.5	4161.0	4525.7	5202.5	5874.9	6389.1	6619.5	6647.0	6551.7	6285.9
60°	3243.0	3375.1	3820.1	4795.8	5693.6	6507.6	6994.4	7131.6	7030.5	6683.1
62.5°	2262.9	2416.0	2837.1	4158.8	5279.0	6422.4	7268.1	7521.7	7445.1	7038.5
65°	1380.2	1429.4	1768.8	3272.6	4574.1	6065.6	7352.6	7732.6	7707.3	7255.9
67.5°	919.4	960.6	1058.1	2244.1	3550.6	5352.7	7150.4	7695.7	7702.9	7220.5
70°	554.0	589.4	652.9	1305.1	2301.1	4236.8	6524.2	7226.3	7268.1	6747.4
72.5°	228.2	252.1	309.9	591.5	1191.7	2689.0	5195.2	6204.2	6301.8	5673.4
75°	129.3	141.6	182.0	296.9	517.1	1253.1	3146.9	4404.4	4548.1	3910.3
77.5°	85.9	91.7	117.7	192.1	291.1	427.6	1344.9	2294.6	2569.1	2135.7
80°	57.8	62.8	80.9	128.6	189.2	183.5	428.3	850.1	1045.8	733.8
82.5°	39.0	39.7	57.8	84.5	119.9	88.8	126.4	264.3	332.2	212.3
85°	22.4	21.7	42.6	49.1	53.4	36.8	38.3	79.4	104.0	89.6
87.5°	2.9	4.3	16.6	13.0	7.2	7.9	7.9	13.7	20.2	21.7
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°
1253.1	0°	1253.1	1253.1	1253.1	1253.1	1253.1	1253.1	1253.1	1253.1	1253.1	1253.1
1254.6	2.5°	1254.6	1253.9	1251.7	1249.5	1244.5	1241.6	1243.0	1241.6	1240.8	1241.6
1264.0	5°	1264.0	1261.8	1256.0	1248.8	1238.7	1226.4	1218.5	1206.9	1196.1	1189.6
1289.2	7.5°	1289.2	1287.1	1279.1	1258.9	1226.4	1175.1	1128.2	1087.0	1055.9	1037.9
1329.7	10°	1329.7	1326.1	1313.8	1269.0	1183.8	1071.8	978.7	901.4	850.8	827.0
1377.4	12.5°	1377.4	1373.0	1351.4	1259.6	1102.9	928.1	799.5	713.6	666.6	645.7
1432.2	15°	1433.7	1427.9	1385.3	1214.8	985.2	769.2	651.5	587.2	556.9	538.1
1502.3	17.5°	1503.8	1493.6	1410.6	1147.7	857.3	647.9	560.5	512.1	485.4	467.3
1594.0	20°	1594.8	1578.1	1430.8	1067.5	739.6	571.3	499.1	458.6	438.4	422.5
1724.0	22.5°	1721.9	1698.0	1455.4	980.8	656.5	518.6	453.6	424.0	407.4	389.3
1905.3	25°	1879.3	1851.2	1485.7	900.7	599.5	473.1	420.4	395.8	376.3	355.4
2143.0	27.5°	2099.6	2049.1	1521.8	834.9	550.4	434.1	390.0	362.6	340.2	322.9
2412.4	30°	2345.2	2262.1	1553.6	795.2	505.6	398.0	350.3	322.9	301.9	289.6
2654.3	32.5°	2577.8	2465.1	1574.5	777.9	465.1	356.8	307.0	277.3	261.5	257.8
2891.2	35°	2797.3	2648.5	1572.4	761.3	429.0	315.6	264.3	234.0	221.7	223.9
3146.2	37.5°	3050.1	2844.3	1557.2	735.3	399.4	278.1	227.5	200.8	190.0	190.7
3456.0	40°	3344.1	3070.3	1547.8	686.2	366.9	243.4	197.2	175.5	167.6	164.7
3782.5	42.5°	3657.5	3289.2	1549.3	630.5	326.5	212.3	176.2	158.2	151.0	148.8
4145.8	45°	3972.5	3497.9	1551.4	572.8	283.8	188.5	161.1	145.9	141.6	138.7
4514.2	47.5°	4268.6	3675.6	1511.0	510.6	242.0	170.5	148.8	138.7	135.1	131.5
4883.9	50°	4544.5	3794.1	1413.5	438.4	208.7	156.0	139.4	132.2	128.6	125.0
5219.1	52.5°	4759.0	3812.8	1252.4	364.0	185.6	145.2	133.6	127.1	122.8	119.2
5489.9	55°	4854.3	3695.1	1023.4	294.7	167.6	135.8	127.8	121.3	116.3	112.7
5703.0	57.5°	4829.8	3447.4	798.1	236.9	150.2	126.4	120.6	116.3	110.5	104.7
5875.6	60°	4709.2	3115.8	601.6	197.2	134.3	116.3	112.7	109.1	101.1	92.4
5942.1	62.5°	4500.4	2699.1	429.0	163.2	117.0	104.7	103.3	100.4	88.8	72.9
5843.8	65°	4181.2	2192.8	288.9	135.8	100.4	91.7	92.4	87.4	72.2	54.2
5484.2	67.5°	3714.6	1603.4	184.9	111.2	83.8	76.6	77.3	74.4	61.4	46.2
4802.3	70°	3120.2	1061.7	120.6	84.5	67.2	59.2	63.6	64.3	52.0	37.6
3685.7	72.5°	2287.4	626.9	84.5	62.8	49.1	41.2	52.0	53.4	41.9	28.2
2217.4	75°	1303.7	297.6	63.6	45.5	30.3	28.9	40.4	40.4	28.9	18.8
959.9	77.5°	547.5	124.2	44.8	29.6	17.3	16.6	27.4	25.3	14.4	8.7
234.0	80°	158.2	55.6	23.8	14.4	7.2	6.5	10.8	7.9	3.6	1.4
88.8	82.5°	62.1	24.6	9.4	5.8	2.9	2.9	1.4	0.0	0.0	0.0
50.6	85°	36.8	10.1	4.3	2.2	0.7	0.0	0.0	0.0	0.0	0.0
10.8	87.5°	9.4	2.2	1.4	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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180°  
1253.1  
1244.5  
1191.0  
1038.6  
824.8  
643.5  
538.8  
465.9  
419.6  
386.4  
353.2  
319.2  
287.5  
260.0  
223.9  
193.6  
164.0  
148.1  
138.7  
131.5  
125.0  
118.5  
112.0  
104.0  
91.0  
71.5  
52.7  
44.1  
36.1  
26.7  
17.3  
8.7  
1.4  
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