

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: P947306

Luminaire Tested: **GALN-SB2C-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8360 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

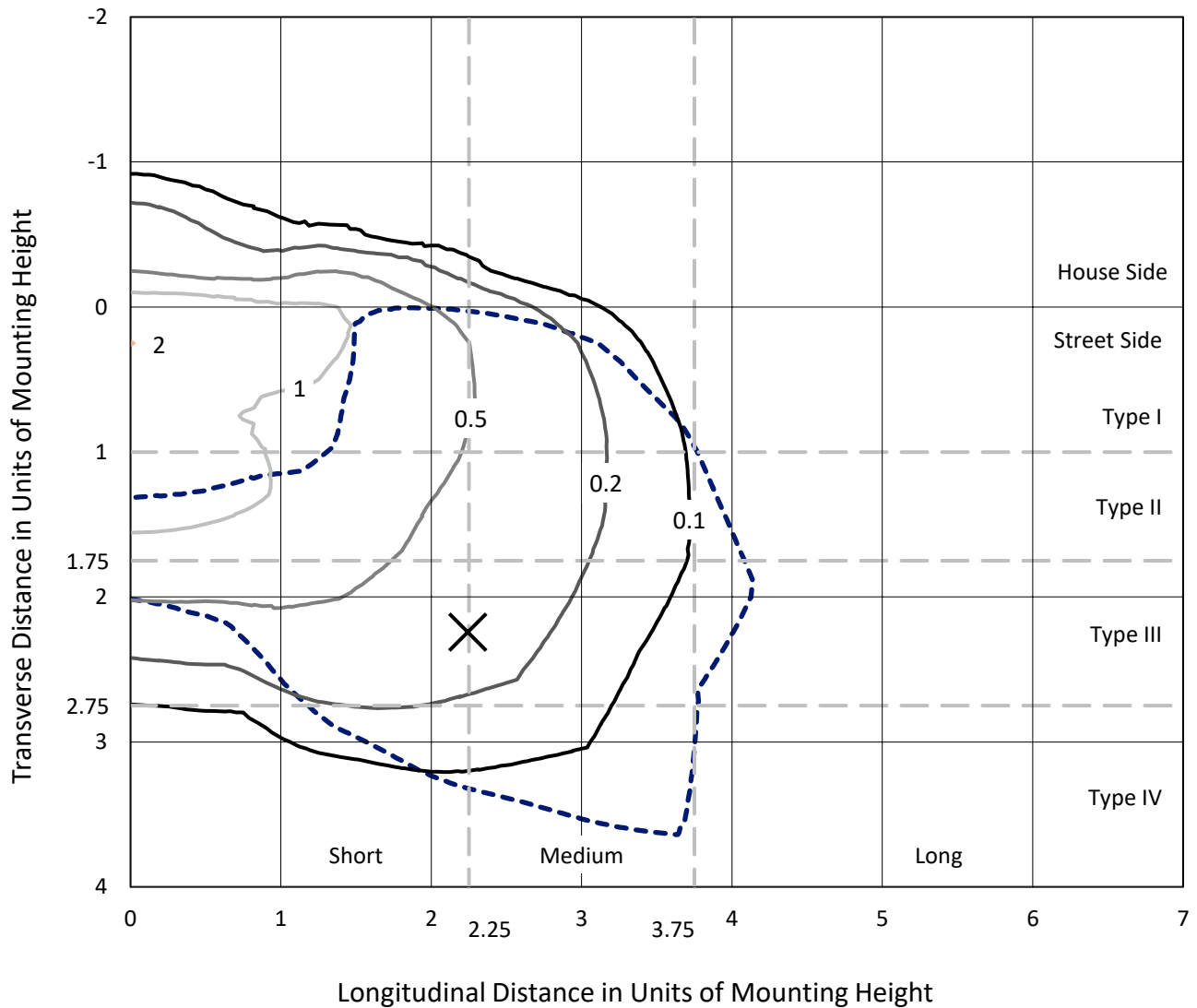
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

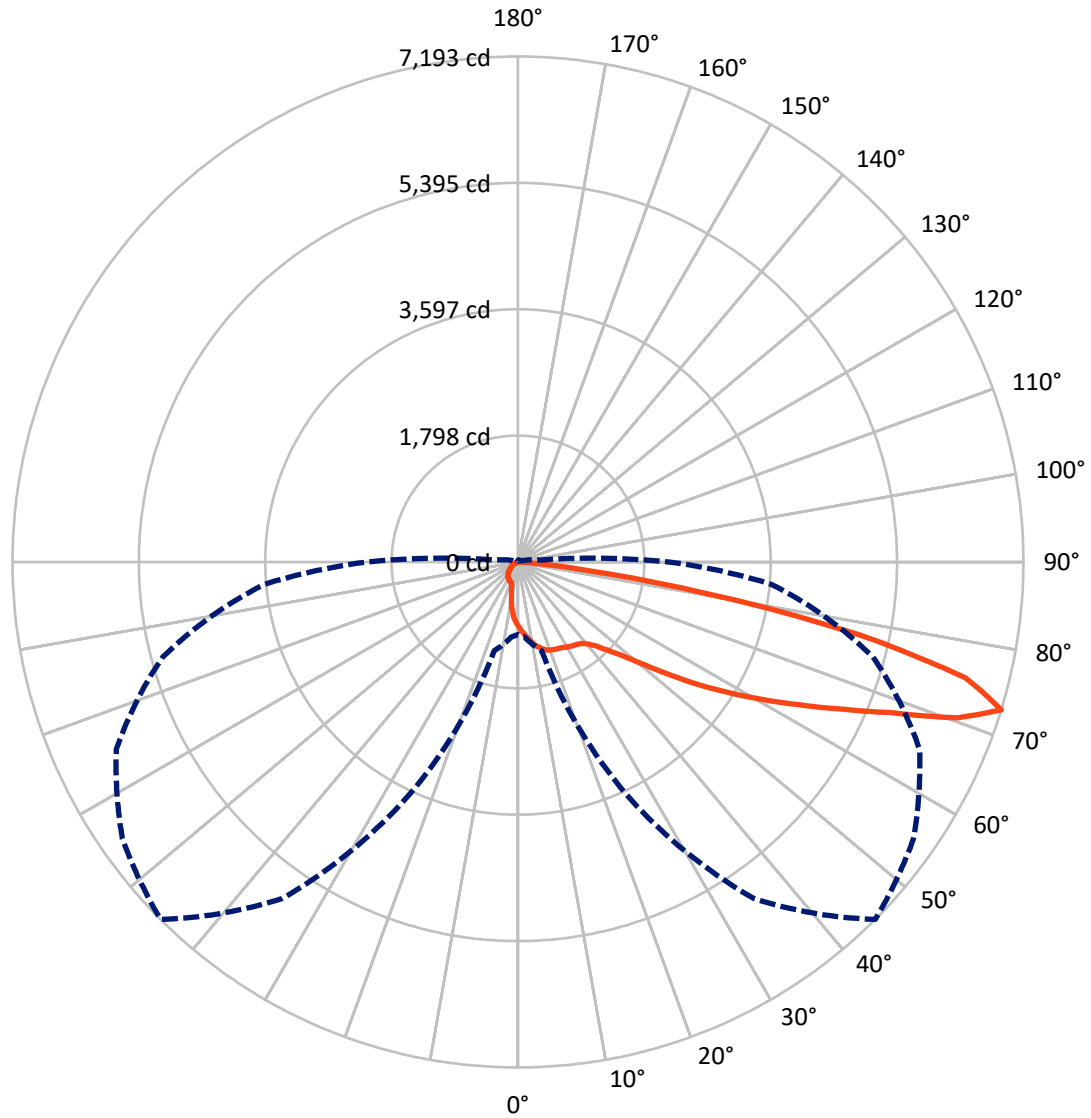
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	878.4	0.0	878.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	7481.6	0.0	7481.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	8360.0	0.0	8360.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	1.0
10°-20°	252.2	3.0
20°-30°	414.1	5.0
30°-40°	587.4	7.0
40°-50°	970.8	11.6
50°-60°	1744.0	20.9
60°-70°	2421.6	29.0
70°-80°	1756.6	21.0
80°-90°	127.0	1.5
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°	8360.0	100.0
0°-180°	8360.0	100.0

Coefficient of Utilization



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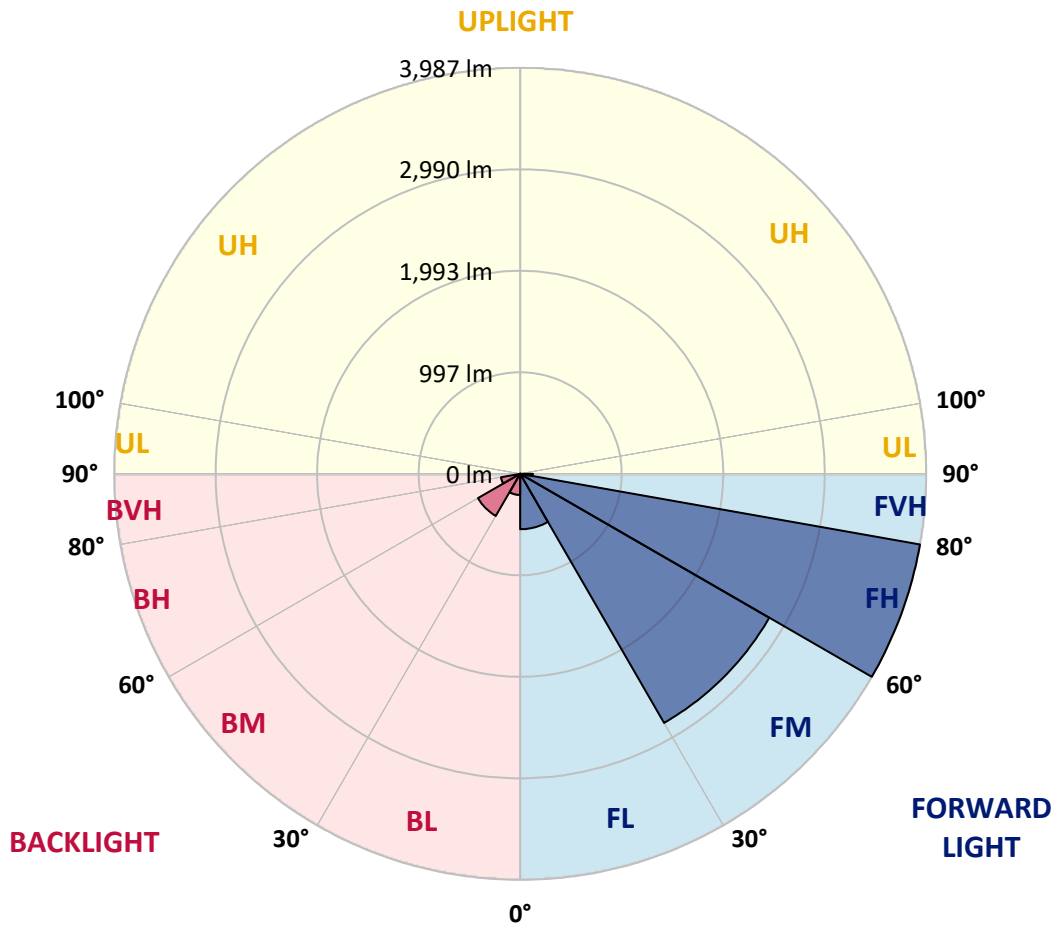
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	544.6	6.5			
FM (30°-60°)	2824.5	33.8			
FH (60°-80°)	3986.6	47.7			G2/5000
FVH (80°-90°)	125.9	1.5			G2/225
BL (0°-30°)	208.1	2.5	B1/500		
BM (30°-60°)	477.7	5.7	B1/1000		
BH (60°-80°)	191.5	2.3	B1/500		G1/500
BVH (80°-90°)	1.1	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	1000.3	1002.0	1000.9	994.0	982.6	976.3	972.9	961.5	954.1	941.0
5°	1092.2	1099.0	1095.0	1081.3	1059.7	1044.2	1039.7	1016.3	995.2	970.6
7.5°	1189.8	1193.2	1185.8	1168.1	1139.0	1112.7	1108.7	1076.2	1042.5	1004.9
10°	1274.2	1278.2	1266.8	1241.1	1208.0	1175.5	1169.8	1133.8	1093.9	1047.7
12.5°	1345.0	1349.0	1334.1	1303.3	1266.8	1233.1	1227.4	1189.8	1145.8	1094.5
15°	1398.6	1406.0	1386.1	1353.0	1313.6	1279.9	1277.1	1240.0	1197.2	1140.1
17.5°	1430.0	1437.4	1418.6	1378.6	1345.0	1316.4	1313.0	1282.2	1242.3	1187.5
20°	1435.1	1442.0	1422.0	1387.2	1359.2	1336.4	1334.7	1312.4	1283.3	1230.8
22.5°	1419.7	1428.3	1410.0	1382.1	1362.7	1350.7	1348.4	1335.8	1319.3	1274.8
25°	1403.7	1410.6	1396.9	1372.4	1362.1	1360.9	1362.7	1360.4	1357.0	1319.3
27.5°	1402.6	1410.0	1394.6	1371.2	1365.5	1377.5	1379.2	1390.0	1392.9	1359.8
30°	1412.3	1417.4	1402.6	1378.1	1375.2	1402.6	1403.2	1422.6	1427.1	1394.0
32.5°	1433.4	1439.1	1424.3	1388.3	1384.3	1422.6	1424.3	1450.0	1457.4	1430.6
35°	1483.1	1489.9	1472.8	1416.9	1402.6	1441.4	1446.5	1476.8	1491.6	1469.4
37.5°	1606.9	1586.9	1563.5	1474.5	1444.3	1471.1	1479.6	1515.0	1541.3	1515.6
40°	1914.5	1851.7	1778.6	1572.6	1517.3	1534.4	1541.3	1576.6	1612.6	1587.5
42.5°	2376.1	2301.9	2184.4	1798.6	1627.4	1636.0	1641.1	1671.9	1722.7	1702.7
45°	2787.5	2760.7	2640.9	2184.4	1833.4	1791.2	1797.5	1813.5	1888.2	1880.8
47.5°	3103.6	3088.2	2995.8	2627.2	2181.5	1981.2	1998.9	2006.3	2114.2	2140.4
50°	3346.7	3341.0	3258.3	3020.9	2636.3	2261.4	2267.7	2251.7	2413.2	2478.2
52.5°	3576.1	3595.5	3534.5	3386.7	3121.9	2628.3	2627.2	2551.8	2769.8	2868.0
55°	3783.3	3790.1	3796.4	3759.9	3610.4	3046.0	3035.2	2911.9	3183.5	3285.1
57.5°	3977.8	3980.7	4036.6	4111.4	4118.8	3494.5	3474.5	3326.8	3635.5	3707.9
60°	4108.5	4121.6	4239.8	4447.5	4538.2	3957.3	3946.5	3795.8	4095.4	4129.1
62.5°	3920.2	4000.1	4298.0	4710.0	4934.2	4470.3	4465.2	4323.6	4579.3	4551.9
65°	3173.3	3308.5	3832.3	4887.4	5322.8	5043.2	5050.6	4900.0	5076.3	4987.3
67.5°	2219.7	2362.4	2982.1	4901.7	5757.1	5716.0	5758.8	5522.5	5604.1	5404.4
70°	1535.0	1608.6	2012.0	4594.7	6095.4	6642.7	6641.5	6287.2	6129.1	5594.4
72.5°	1032.3	1070.5	1306.7	3645.2	5846.6	7193.3	7160.2	6871.5	6306.0	5232.1
75°	435.4	463.3	604.9	2048.5	4625.5	6581.0	6491.4	6072.6	5603.0	4119.9
77.5°	138.1	150.1	238.5	733.3	2547.8	4946.8	4852.0	3792.4	3755.3	2066.8
80°	65.6	76.5	134.1	294.4	1002.6	2690.5	2677.4	1720.4	1615.4	558.1
82.5°	28.5	33.7	74.2	157.5	448.5	959.8	979.2	585.5	484.5	211.7
85°	9.1	12.0	34.2	72.5	189.4	238.5	235.7	139.2	195.2	115.3
87.5°	0.0	0.0	11.4	16.5	19.4	13.7	15.4	12.0	54.2	32.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
915.9	0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
927.3	2.5°	920.4	911.3	895.3	880.5	867.4	854.2	846.2	834.8	833.7	833.7
942.1	5°	926.7	911.9	883.3	853.1	818.3	785.2	752.1	720.1	709.9	702.4
966.1	7.5°	945.0	921.6	876.5	818.8	752.7	680.2	629.4	574.6	553.5	542.1
998.0	10°	971.2	939.3	870.8	769.8	662.5	563.8	491.3	432.0	409.1	399.4
1032.8	12.5°	1000.3	960.9	860.5	708.7	563.8	445.7	374.9	347.5	344.1	344.1
1074.5	15°	1035.1	987.2	842.8	636.8	460.5	352.6	327.5	328.7	332.1	334.4
1115.0	17.5°	1071.1	1015.1	814.9	556.4	369.2	317.3	317.8	319.6	322.4	324.7
1158.9	20°	1109.9	1043.1	777.8	470.8	316.7	307.0	308.7	310.4	312.7	313.8
1200.0	22.5°	1151.5	1069.4	733.8	386.9	299.0	298.4	299.0	300.7	303.6	303.6
1248.0	25°	1196.0	1098.5	683.6	325.8	289.9	289.9	291.0	292.2	294.4	294.4
1294.2	27.5°	1241.7	1125.3	630.5	293.9	281.9	281.3	281.3	283.0	284.2	284.7
1339.8	30°	1291.9	1156.7	577.5	287.0	275.6	272.8	271.0	272.2	273.3	273.9
1387.8	32.5°	1343.3	1186.9	530.1	289.9	269.3	264.2	258.5	257.4	257.4	259.6
1437.4	35°	1400.3	1220.0	493.6	299.6	265.9	251.6	242.5	237.4	238.0	241.4
1496.8	37.5°	1468.8	1259.9	466.8	308.1	263.6	237.4	222.5	216.3	212.3	216.3
1578.4	40°	1558.4	1318.7	447.4	315.0	260.8	220.8	200.9	190.6	183.2	185.5
1705.0	42.5°	1690.2	1411.2	440.0	315.6	254.5	201.4	178.6	164.9	154.1	154.6
1895.6	45°	1875.1	1557.2	478.2	308.1	240.8	180.3	155.2	137.0	130.1	128.4
2180.4	47.5°	2128.4	1770.1	566.6	292.7	220.8	159.8	132.4	117.0	111.8	109.0
2554.1	50°	2468.0	2043.4	664.8	275.6	200.9	140.4	113.6	103.9	100.4	97.6
2997.5	52.5°	2861.7	2320.7	745.2	258.5	180.9	123.3	101.6	95.9	93.0	90.7
3425.5	55°	3222.9	2511.9	740.7	240.2	161.5	109.6	93.0	89.6	86.2	83.9
3794.1	57.5°	3447.7	2538.7	610.6	220.3	139.2	98.7	85.0	82.7	78.7	75.9
4113.1	60°	3551.0	2385.8	428.0	194.0	117.0	88.4	76.5	75.3	70.2	66.2
4414.9	62.5°	3569.8	2101.6	285.3	161.5	97.6	78.7	67.9	66.2	59.3	52.5
4660.3	65°	3493.4	1695.3	197.4	126.1	83.3	68.5	58.2	54.8	47.4	40.5
4718.5	67.5°	3251.4	1190.3	137.5	90.7	70.8	54.2	46.2	45.1	39.4	33.7
4421.8	70°	2808.1	678.5	91.9	67.9	55.9	37.1	36.5	37.7	32.0	27.4
3612.6	72.5°	2153.0	310.4	57.1	49.6	38.2	25.1	29.1	29.7	24.5	20.5
2254.0	75°	1267.4	133.0	35.9	32.0	19.4	16.5	21.1	21.7	16.5	13.1
824.0	77.5°	431.4	50.2	22.8	18.8	9.7	9.1	13.7	13.7	9.1	5.1
165.5	80°	98.1	18.8	11.4	7.4	4.6	4.0	4.6	4.0	2.3	0.6
50.8	82.5°	28.0	7.4	4.6	2.9	1.7	1.7	0.6	0.0	0.0	0.0
17.7	85°	8.0	3.4	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
6.3	87.5°	3.4	0.6	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>
915.9
836.5
705.9
543.8
399.4
344.1
334.4
324.7
314.4
304.7
295.0
285.3
275.0
261.3
243.1
215.1
184.3
152.4
126.1
107.3
97.0
90.2
82.7
75.3
65.1
49.1
38.2
32.0
25.1
18.3
11.4
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