

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: P947305

Luminaire Tested: **GALN-SB2C-940-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947305  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
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-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

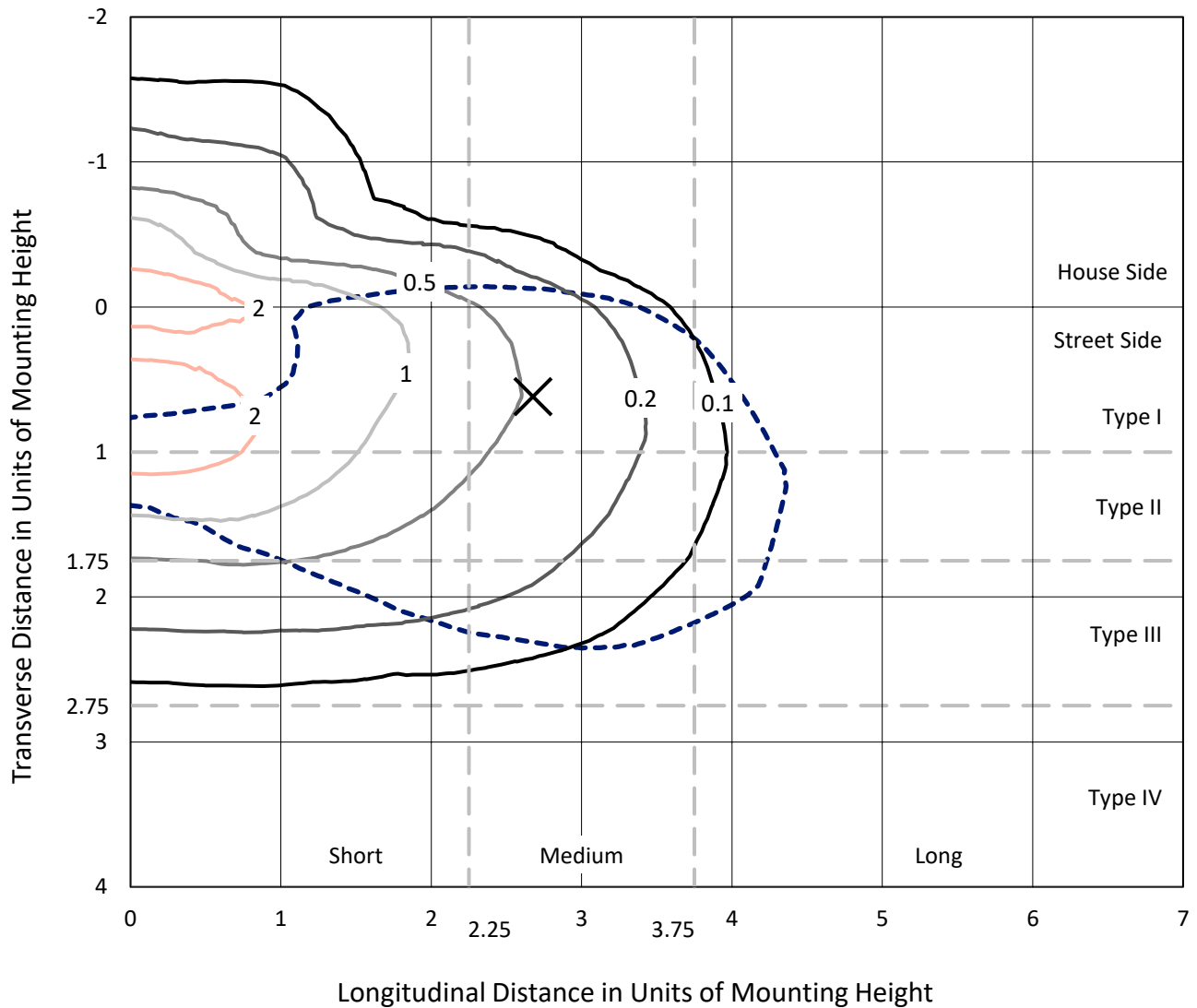
Lumens per Lamp: N/A  
Luminaire Lumens: 11141 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): 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

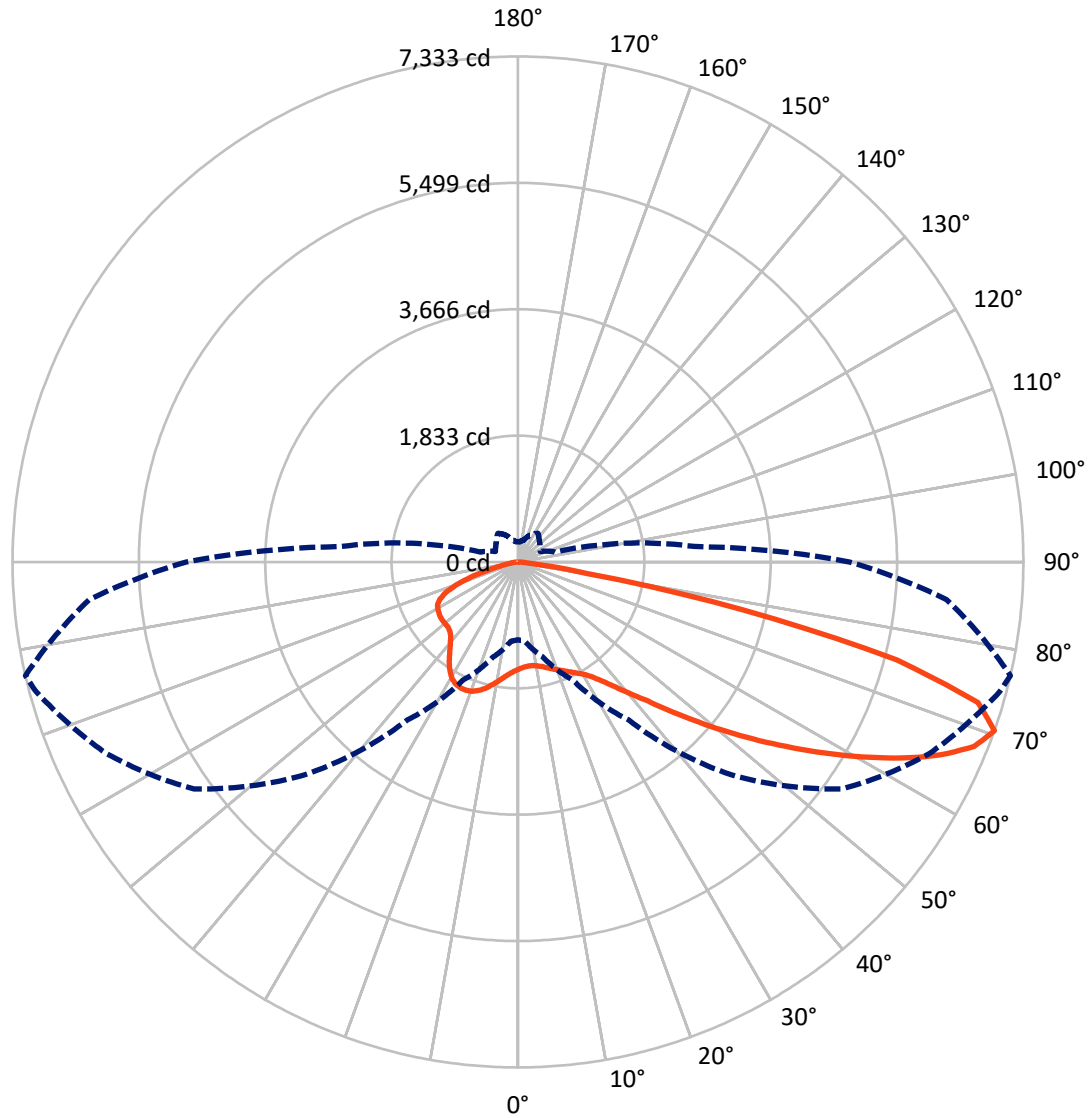
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2439.7	0.0	2439.7
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	8701.3	0.0	8701.3
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	11141.0	0.0	11141.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.2	1.3
10°-20°	427.8	3.8
20°-30°	731.6	6.6
30°-40°	1176.5	10.6
40°-50°	1836.9	16.5
50°-60°	2453.7	22.0
60°-70°	2615.2	23.5
70°-80°	1609.9	14.5
80°-90°	141.1	1.3
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°	11141.0	100.0
0°-180°	11141.0	100.0



REPORT NUMBER: P947305

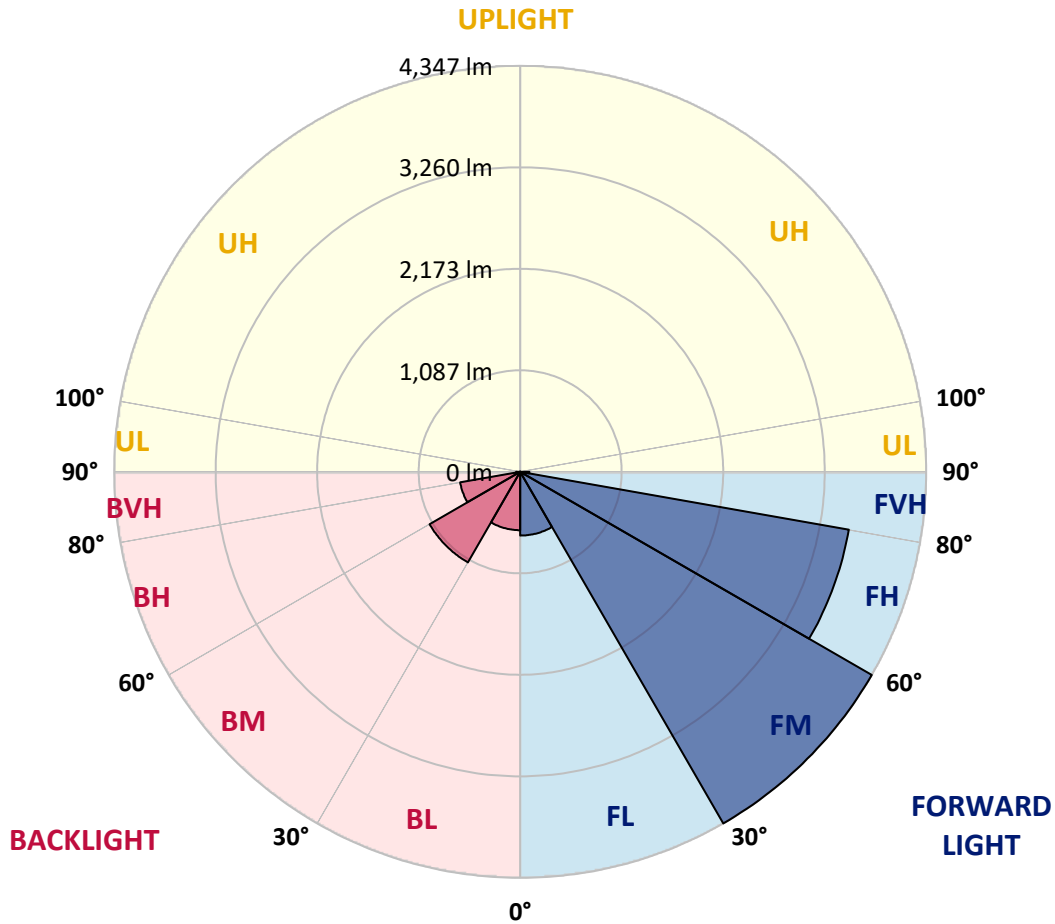
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	682.6	6.1			
FM (30°-60°)	4347.0	39.0			
FH (60°-80°)	3573.1	32.1			G2/5000
FVH (80°-90°)	98.6	0.9			G1/100
BL (0°-30°)	625.1	5.6	B2/1000		
BM (30°-60°)	1120.1	10.1	B2/2500		
BH (60°-80°)	652.0	5.9	B2/1000		G2/1000
BVH (80°-90°)	42.4	0.4			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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3
2.5°	1432.7	1432.2	1439.6	1441.9	1455.6	1465.3	1483.5	1502.9	1528.0	1530.9
5°	1350.0	1350.0	1358.6	1367.7	1385.4	1404.8	1432.7	1466.4	1509.8	1516.6
7.5°	1279.8	1284.4	1291.8	1309.5	1330.0	1358.0	1400.8	1448.7	1505.8	1516.6
10°	1223.3	1228.5	1237.6	1251.9	1282.7	1321.5	1377.4	1439.0	1515.5	1532.6
12.5°	1205.6	1210.8	1215.9	1226.8	1255.3	1300.9	1367.7	1443.6	1538.9	1556.0
15°	1246.7	1253.0	1249.0	1246.2	1261.0	1302.6	1372.3	1460.1	1568.0	1592.5
17.5°	1341.4	1343.7	1334.6	1307.8	1305.5	1327.7	1393.9	1482.9	1604.5	1631.3
20°	1494.4	1490.4	1471.5	1418.5	1388.2	1383.7	1431.0	1517.2	1642.1	1670.7
22.5°	1702.1	1697.5	1659.8	1576.0	1508.6	1464.1	1484.7	1561.7	1684.4	1716.3
25°	1961.1	1954.8	1899.5	1785.4	1680.9	1570.8	1557.7	1620.5	1736.3	1766.0
27.5°	2263.5	2258.4	2198.5	2047.8	1897.2	1716.9	1648.4	1689.5	1790.5	1824.2
30°	2588.7	2603.6	2497.4	2335.4	2144.8	1907.5	1770.5	1774.5	1860.7	1890.9
32.5°	2971.0	2996.7	2868.9	2663.5	2403.3	2114.6	1924.6	1893.2	1962.8	1987.9
35°	3349.9	3379.0	3272.9	3045.8	2746.2	2358.8	2085.5	2029.6	2098.6	2126.0
37.5°	3677.4	3716.2	3661.4	3464.0	3113.1	2653.2	2295.5	2189.9	2265.8	2300.0
40°	3935.9	3995.2	3991.2	3868.0	3545.6	3010.4	2561.9	2387.9	2473.5	2510.6
42.5°	4145.9	4197.2	4241.7	4235.4	3996.9	3416.1	2875.2	2645.2	2710.3	2753.1
45°	4290.8	4345.6	4441.4	4544.7	4431.2	3850.3	3234.1	2950.5	3009.8	3074.3
47.5°	4420.3	4482.5	4606.9	4770.7	4799.8	4286.2	3627.2	3306.0	3360.2	3426.9
50°	4431.7	4485.4	4678.2	4910.4	5061.7	4705.0	4049.4	3704.8	3755.6	3826.9
52.5°	4156.1	4240.6	4577.2	4906.5	5182.0	5055.4	4468.8	4119.6	4176.7	4262.3
55°	3226.1	3349.9	4281.1	4753.5	5139.3	5281.9	4867.7	4560.7	4633.7	4723.3
57.5°	2778.7	2833.0	3398.4	4475.1	4944.1	5340.7	5204.3	5006.3	5123.8	5222.0
60°	2497.4	2542.5	2876.9	4042.0	4687.3	5247.7	5464.5	5421.7	5624.8	5741.8
62.5°	2196.2	2239.0	2543.1	3375.0	4358.7	5093.0	5628.8	5805.1	6138.3	6266.2
65°	1897.2	1933.7	2225.3	2835.8	3941.0	4938.4	5713.8	6136.6	6613.6	6746.0
67.5°	1564.0	1594.2	1869.8	2392.5	3433.2	4726.7	5756.1	6397.4	7027.3	7140.9
70°	1128.6	1152.0	1436.7	1892.1	2795.9	4362.7	5738.9	6582.3	7241.9	7332.6
72.5°	533.5	554.6	889.0	1228.5	1974.8	3654.0	5392.6	6435.6	7023.9	6978.8
75°	284.7	303.0	510.7	673.9	1043.0	2504.9	4412.9	5543.8	5898.1	5679.0
77.5°	192.9	207.1	316.1	404.5	476.4	1189.1	2836.4	3838.3	3692.8	3331.1
80°	152.9	167.8	259.0	273.9	230.5	429.6	1172.0	1776.8	1276.4	1020.8
82.5°	117.5	134.1	218.0	198.6	125.5	176.3	341.2	562.0	326.9	248.8
85°	71.9	89.6	171.2	126.7	70.8	80.5	115.8	156.3	99.9	83.3
87.5°	36.5	51.4	86.7	46.2	32.0	18.8	30.8	30.8	26.2	22.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947305  
 CATALOG NUMBER: GALN-SB2C-940-U-T3R

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1554.3	0°	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3	1554.3
1546.3	2.5°	1560.0	1571.4	1590.8	1609.0	1623.3	1637.0	1650.7	1658.1	1660.4	1669.5
1554.8	5°	1578.2	1599.3	1637.0	1672.4	1694.6	1708.3	1718.0	1723.7	1724.9	1727.7
1578.2	7.5°	1611.9	1645.6	1698.1	1733.4	1750.0	1748.8	1744.8	1730.6	1724.9	1719.7
1612.5	10°	1659.3	1703.8	1768.2	1792.8	1782.5	1755.1	1719.7	1678.1	1658.7	1639.9
1659.3	12.5°	1718.0	1774.5	1837.9	1836.7	1785.9	1715.7	1633.6	1569.7	1529.2	1500.1
1716.9	15°	1789.4	1854.4	1902.9	1864.1	1752.8	1626.7	1506.3	1423.0	1386.5	1354.6
1775.1	17.5°	1863.0	1932.6	1954.8	1855.5	1669.5	1494.9	1358.6	1292.9	1257.0	1239.9
1837.9	20°	1934.9	2003.9	1985.6	1806.5	1542.9	1345.4	1223.9	1188.0	1180.5	1184.5
1898.9	22.5°	2010.7	2072.4	1991.9	1711.8	1381.4	1192.5	1125.8	1126.9	1143.5	1155.4
1962.8	25°	2088.3	2130.0	1975.4	1574.8	1207.9	1080.1	1063.6	1081.8	1114.4	1137.7
2034.7	27.5°	2163.1	2181.3	1939.4	1405.3	1059.0	999.7	1002.5	1040.2	1089.2	1121.8
2122.0	30°	2247.5	2227.0	1870.4	1214.8	955.7	930.6	954.6	998.5	1047.6	1076.7
2232.1	32.5°	2342.8	2266.4	1760.8	1038.5	882.7	875.3	914.6	943.2	964.9	973.4
2378.2	35°	2461.5	2321.7	1620.5	914.6	817.1	834.8	872.4	858.2	849.6	845.0
2574.5	37.5°	2615.6	2396.5	1456.1	834.2	764.0	805.7	821.1	776.6	742.9	726.4
2812.4	40°	2801.0	2506.0	1298.1	772.0	730.3	780.6	753.7	700.1	657.3	633.9
3080.0	42.5°	3007.0	2620.7	1165.1	725.2	711.5	760.0	704.1	640.2	571.2	563.7
3399.0	45°	3223.2	2738.8	1074.4	689.3	702.4	742.3	675.6	572.3	523.2	553.5
3719.1	47.5°	3439.5	2847.2	1019.6	662.4	697.8	722.4	650.5	534.6	499.8	543.8
4062.0	50°	3680.3	2944.2	995.1	643.0	692.7	714.4	612.8	524.9	475.3	504.4
4416.9	52.5°	3919.3	3019.5	976.8	623.6	685.3	708.1	594.5	513.5	445.6	447.3
4774.1	55°	4157.8	3068.6	956.9	598.0	668.7	694.4	592.8	501.0	423.4	415.4
5151.8	57.5°	4412.3	3096.6	932.3	569.4	640.2	659.6	591.1	491.3	416.5	403.4
5538.1	60°	4671.4	3137.6	900.4	534.6	602.0	617.9	587.1	487.8	412.5	390.3
5902.1	62.5°	4903.6	3151.9	862.2	501.5	552.9	576.9	578.6	485.0	401.7	363.5
6204.5	65°	5055.9	3090.3	795.4	463.9	499.8	534.6	562.0	475.3	382.3	344.1
6354.0	67.5°	5049.7	2914.5	691.0	415.4	448.5	487.8	538.1	458.7	358.9	320.1
6241.0	70°	4814.6	2567.6	558.6	358.9	392.0	437.6	507.2	434.2	330.9	293.9
5549.5	72.5°	4129.3	2009.6	405.7	292.7	326.4	385.7	467.3	404.5	302.4	270.5
4101.4	75°	2949.9	1271.8	275.0	224.8	253.9	326.9	417.7	369.7	276.2	271.6
2054.1	77.5°	1506.9	607.7	182.0	164.3	176.9	257.9	350.9	330.4	280.2	224.2
584.3	80°	490.1	224.2	114.7	111.8	117.5	171.7	271.6	271.0	212.3	152.3
141.5	82.5°	156.3	96.4	74.7	71.9	69.0	107.8	189.4	214.5	143.2	96.4
50.8	85°	62.2	57.6	43.9	40.5	29.1	50.8	99.3	142.6	106.7	69.6
13.1	87.5°	22.8	22.8	12.0	8.6	6.3	17.1	26.8	42.8	61.1	35.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
1554.3
1674.7
1732.3
1720.9
1634.2
1493.2
1351.1
1245.0
1182.8
1158.3
1144.0
1129.8
1083.5
978.0
849.6
730.3
635.6
571.2
569.4
564.3
526.1
459.3
421.1
405.1
392.0
363.5
344.1
321.8
297.3
268.7
256.2
199.7
134.7
95.9
71.3
35.4
0.0

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