

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: P940145

Luminaire Tested: **GALN-SB3A-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3A-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11596 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

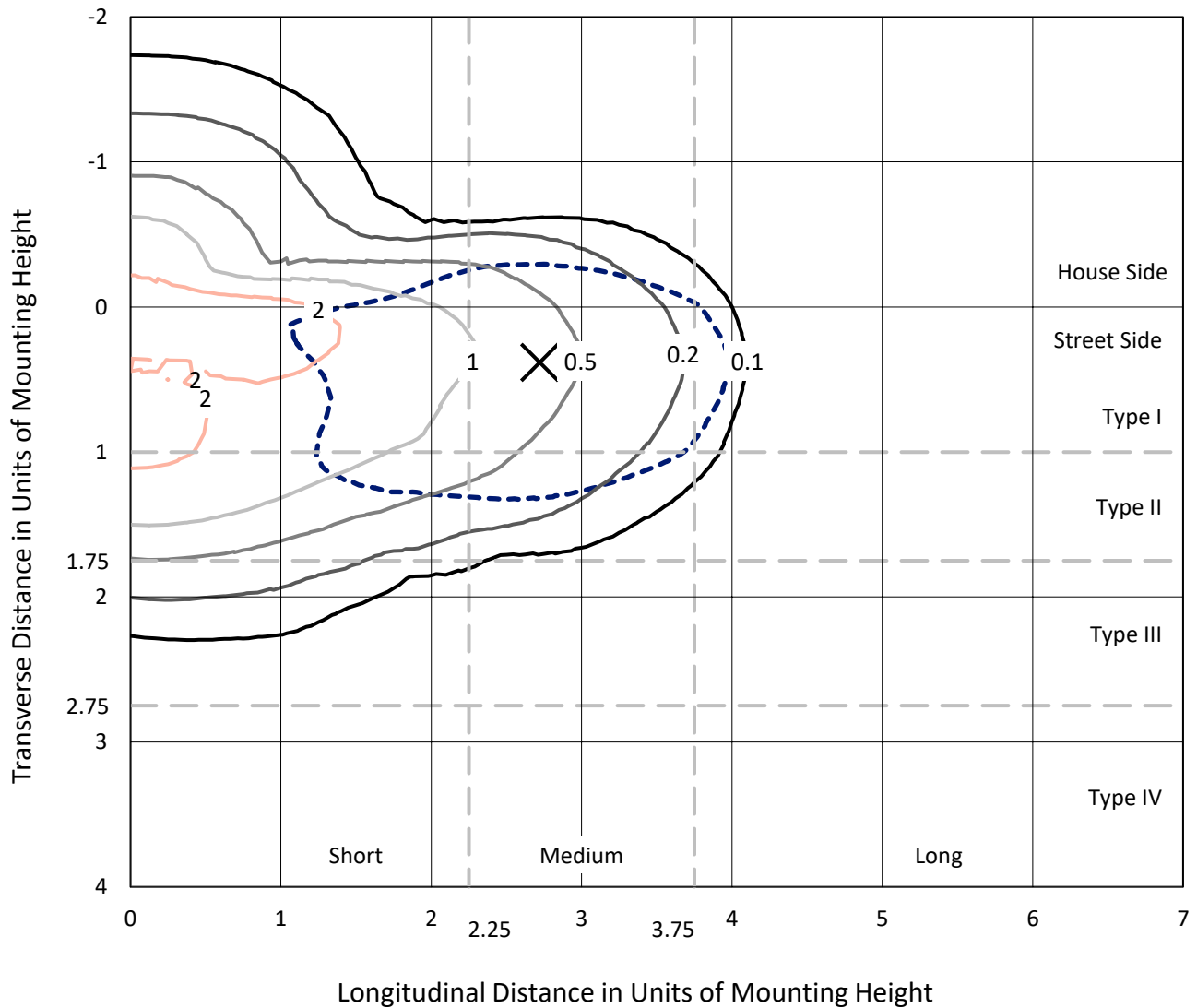
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940145
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Iso-Footcandle Lines of Horizontal Illumination

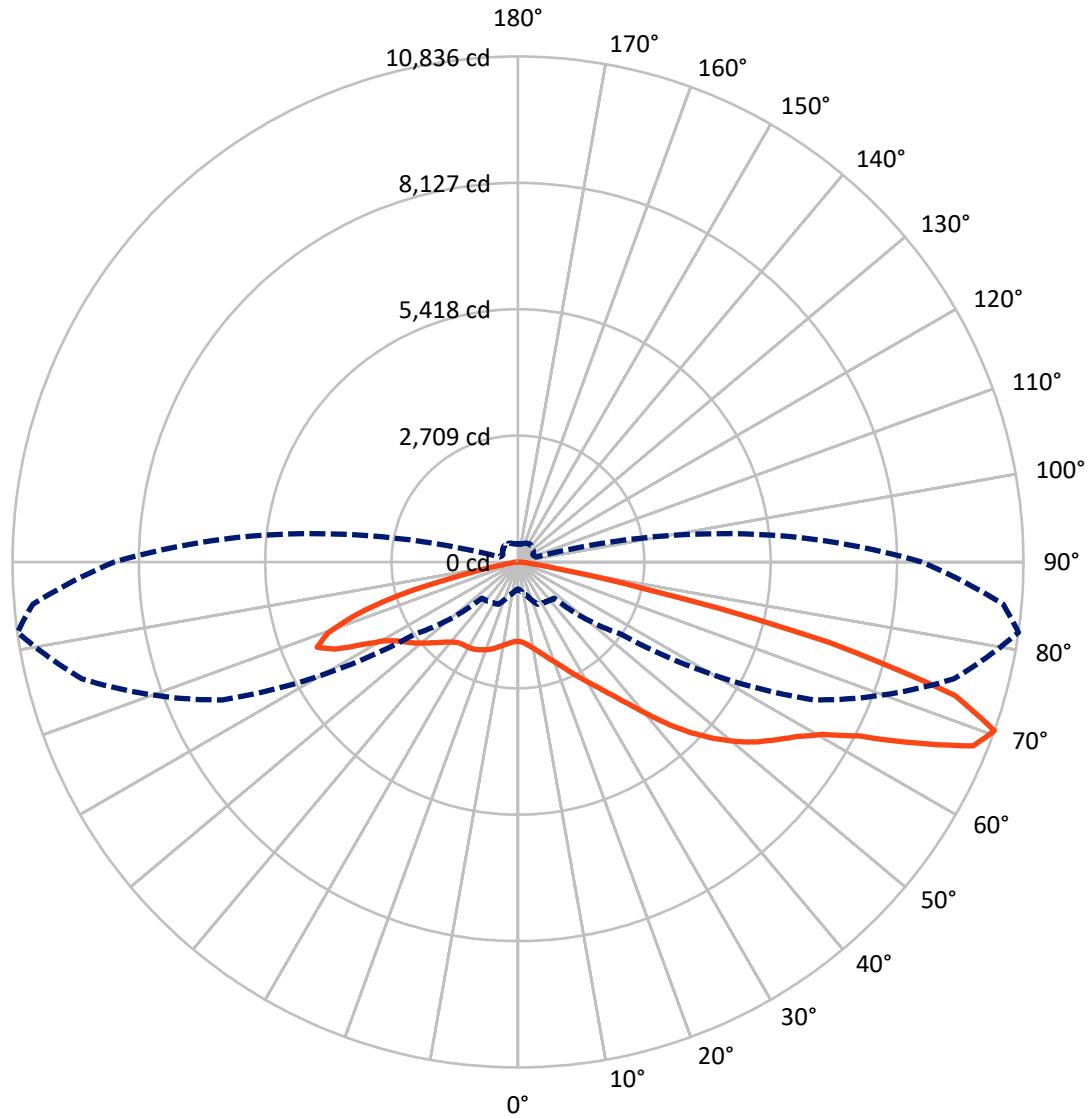
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P940145
CATALOG NUMBER: GALN-SB3A-827-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2858.7	0.0	2858.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	8737.3	0.0	8737.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	11596.0	0.0	11596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	1.4
10°-20°	461.2	4.0
20°-30°	771.5	6.7
30°-40°	1205.3	10.4
40°-50°	1919.6	16.6
50°-60°	2671.4	23.0
60°-70°	2794.4	24.1
70°-80°	1460.5	12.6
80°-90°	151.6	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°	11596.0	100.0
0°-180°	11596.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940145

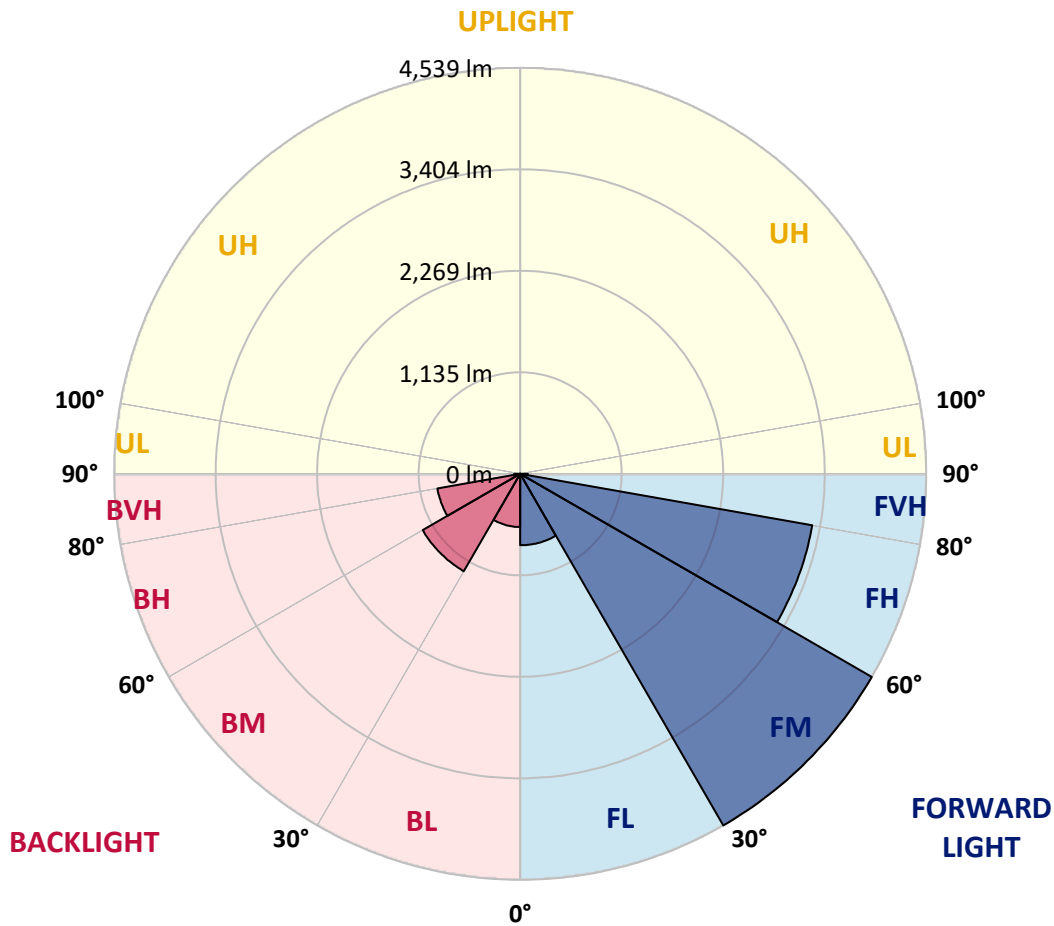
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	798.5	6.9			
FM (30°-60°)	4538.6	39.1			
FH (60°-80°)	3315.3	28.6			G2/5000
FVH (80°-90°)	84.9	0.7			G1/100
BL (0°-30°)	594.7	5.1	B2/1000		
BM (30°-60°)	1257.7	10.8	B2/2500		
BH (60°-80°)	939.5	8.1	B2/1000		G2/1000
BVH (80°-90°)	66.8	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1700.1	1700.1	1700.1	1700.1	1700.1	1700.1	1700.1	1700.1	1700.1	1700.1
2.5°	1740.7	1750.6	1747.5	1744.4	1744.4	1740.1	1739.5	1733.3	1728.4	1720.4
5°	1762.9	1773.3	1772.1	1774.6	1782.6	1784.4	1786.3	1782.6	1772.7	1762.9
7.5°	1743.2	1754.9	1758.6	1773.3	1798.0	1820.1	1836.7	1843.5	1834.3	1820.1
10°	1676.7	1689.7	1702.6	1737.7	1781.3	1833.6	1877.9	1904.4	1902.6	1889.0
12.5°	1542.0	1555.5	1583.2	1651.5	1731.5	1823.8	1906.2	1961.6	1980.7	1970.9
15°	1434.3	1446.0	1466.9	1537.1	1641.0	1781.3	1916.7	2024.4	2073.0	2067.5
17.5°	1431.2	1436.1	1449.1	1482.3	1562.3	1714.9	1905.6	2085.9	2178.8	2178.2
20°	1485.4	1487.2	1494.6	1501.4	1546.9	1664.4	1877.3	2137.0	2297.6	2297.6
22.5°	1560.4	1559.2	1566.6	1560.4	1582.6	1660.1	1859.5	2181.9	2429.9	2439.7
25°	1673.0	1666.9	1665.0	1650.9	1655.2	1700.1	1879.2	2233.0	2586.8	2607.1
27.5°	1823.2	1813.3	1806.6	1774.0	1762.9	1782.6	1939.5	2294.5	2761.5	2796.6
30°	2018.9	2001.0	1991.2	1934.6	1894.6	1897.6	2030.5	2376.4	2944.3	3000.9
32.5°	2285.9	2258.2	2231.8	2138.8	2065.6	2041.6	2148.1	2489.6	3142.4	3232.9
35°	2584.9	2562.8	2534.5	2391.1	2278.5	2223.1	2306.8	2647.7	3374.4	3517.8
37.5°	2872.9	2853.8	2867.4	2674.2	2528.9	2448.3	2514.8	2860.0	3660.5	3872.2
40°	3170.7	3156.0	3157.8	2973.2	2804.0	2713.5	2767.1	3126.4	3988.5	4293.7
42.5°	3494.4	3483.3	3446.4	3282.7	3092.6	3008.3	3057.5	3434.1	4340.4	4773.6
45°	3856.8	3850.0	3815.6	3627.9	3410.1	3315.3	3381.8	3773.7	4694.2	5225.3
47.5°	4170.0	4175.5	4171.2	4013.1	3787.3	3648.2	3727.6	4128.2	5023.4	5649.8
50°	4320.8	4349.7	4392.1	4342.9	4202.6	4061.1	4076.5	4470.3	5337.3	6047.9
52.5°	4242.0	4296.8	4412.4	4491.2	4545.3	4515.8	4474.6	4809.9	5632.6	6407.3
55°	3948.5	4025.4	4217.4	4407.5	4683.8	4898.5	4952.7	5186.5	5920.6	6723.6
57.5°	3413.8	3538.7	3711.0	4095.5	4560.7	5083.7	5510.2	5708.9	6225.8	7061.4
60°	2497.0	2664.3	2878.4	3450.7	4130.0	4984.7	5984.6	6511.3	6659.6	7498.9
62.5°	1598.0	1701.3	1898.3	2437.3	3218.1	4477.0	6129.8	7514.2	7394.9	8216.3
65°	1094.0	1160.5	1340.8	1643.5	2080.4	3332.6	5740.9	8266.2	8562.7	9353.4
67.5°	795.0	845.4	999.3	1264.5	1355.5	1972.1	4454.9	8231.7	9698.0	10525.0
70°	579.6	615.3	744.5	999.3	1043.0	1097.1	2698.8	6997.4	9673.4	10836.3
72.5°	429.5	454.1	540.9	775.3	844.2	740.8	1335.9	5085.6	8312.3	9801.4
75°	310.7	329.2	393.2	593.2	675.6	564.2	666.4	2972.0	5798.1	6894.6
77.5°	237.5	251.7	293.5	434.4	540.9	423.3	413.5	1367.2	2749.2	2762.8
80°	190.7	200.0	222.7	305.8	414.7	316.9	269.5	551.9	868.8	735.3
82.5°	140.3	155.7	188.3	214.7	296.6	218.4	164.3	278.7	330.4	284.3
85°	80.0	90.5	113.8	153.8	189.5	133.5	94.1	123.7	153.8	126.1
87.5°	28.3	36.9	40.0	60.3	82.5	55.4	36.3	35.7	50.5	37.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940145
 CATALOG NUMBER: GALN-SB3A-827-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1700.1	0°	1700.1	1700.1	1700.1	1700.1	1700.1	1700.1	1700.1	1700.1	1700.1	1700.1
1718.6	2.5°	1712.4	1709.3	1697.0	1680.4	1663.2	1646.6	1641.0	1629.4	1621.4	1617.1
1758.6	5°	1746.9	1737.0	1708.1	1671.2	1632.4	1590.6	1561.1	1534.0	1514.3	1495.8
1813.3	7.5°	1796.1	1778.9	1729.0	1664.4	1595.5	1526.0	1474.3	1434.9	1408.5	1391.2
1877.3	10°	1853.3	1826.9	1750.6	1654.0	1547.5	1447.8	1386.9	1353.1	1336.5	1327.2
1950.6	12.5°	1919.2	1881.6	1772.7	1630.0	1474.3	1360.5	1318.6	1308.8	1309.4	1310.0
2042.8	15°	2000.4	1948.1	1790.6	1577.7	1378.9	1293.4	1286.0	1302.0	1318.6	1326.6
2147.5	17.5°	2092.1	2018.2	1793.6	1491.5	1285.4	1250.3	1273.7	1308.2	1333.4	1344.5
2264.4	20°	2190.5	2089.6	1771.5	1369.7	1208.5	1215.2	1257.1	1301.4	1329.1	1343.2
2397.9	22.5°	2303.1	2165.9	1718.6	1241.7	1145.7	1177.1	1226.3	1269.4	1298.3	1312.5
2554.8	25°	2431.7	2251.4	1635.5	1134.0	1091.6	1134.0	1183.3	1218.9	1242.3	1255.2
2730.2	27.5°	2574.5	2340.7	1524.8	1048.5	1044.2	1089.7	1130.3	1158.0	1170.3	1180.2
2916.6	30°	2717.9	2421.9	1390.6	983.9	1003.0	1046.0	1075.0	1087.3	1091.0	1092.8
3124.6	32.5°	2872.9	2492.0	1249.7	930.4	963.6	1003.6	1020.8	1026.3	1009.1	997.4
3376.9	35°	3060.6	2567.1	1111.9	887.9	924.8	959.3	964.8	959.9	939.6	915.6
3693.1	37.5°	3292.6	2660.6	1001.7	857.8	888.5	911.3	904.5	903.3	905.1	876.8
4073.4	40°	3576.8	2782.5	921.1	834.4	859.0	863.9	844.8	855.3	864.5	821.4
4490.6	42.5°	3892.5	2929.5	870.1	818.4	834.4	822.7	793.1	804.8	803.6	747.0
4909.6	45°	4214.3	3089.5	852.2	806.7	811.6	788.2	755.6	758.7	732.8	681.8
5311.4	47.5°	4534.3	3261.2	863.3	796.8	783.3	756.8	731.6	718.1	679.9	641.8
5696.6	50°	4848.1	3441.5	903.9	777.1	744.5	729.1	710.7	686.7	646.1	613.5
6060.9	52.5°	5139.1	3623.0	949.4	744.5	695.9	705.2	693.5	665.8	625.8	592.5
6405.4	55°	5414.8	3804.5	967.3	699.6	650.4	684.2	677.5	626.4	578.4	551.3
6766.0	57.5°	5715.1	4022.9	947.6	642.4	613.5	660.2	634.4	577.8	550.1	529.8
7235.5	60°	6131.0	4365.7	905.1	571.6	578.4	624.5	580.2	556.9	526.7	503.9
7939.4	62.5°	6822.0	5005.0	836.8	501.5	537.2	571.6	554.4	531.0	500.3	478.1
9143.0	65°	7843.4	5893.5	708.2	446.7	491.0	519.9	526.7	503.3	471.3	448.0
10197.6	67.5°	8704.9	6451.0	535.9	401.2	443.6	478.1	497.2	474.4	440.6	417.8
10444.4	70°	8657.5	6046.1	409.2	356.3	401.8	436.9	461.5	443.6	407.3	385.8
9486.9	72.5°	7689.6	5057.9	331.0	310.7	359.3	393.8	423.3	409.8	372.9	352.0
6950.0	75°	5649.2	3590.4	264.6	264.6	306.4	348.9	381.5	372.9	339.0	324.3
2917.8	77.5°	2381.3	1506.3	207.4	219.7	254.7	299.7	340.3	343.3	313.8	332.3
771.6	80°	633.2	415.3	158.1	172.9	200.0	247.4	296.0	294.7	262.7	245.5
286.7	82.5°	241.2	163.7	112.6	121.8	144.6	189.5	234.4	241.8	209.8	181.5
112.6	85°	92.9	70.1	69.5	73.2	84.3	125.5	177.2	183.4	158.1	134.1
31.4	87.5°	24.0	20.9	25.8	24.6	38.8	67.1	101.5	105.2	96.6	56.0
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>
1700.1
1622.0
1503.2
1394.9
1329.7
1311.2
1326.0
1346.9
1346.9
1316.2
1258.9
1183.9
1097.1
1001.1
916.8
878.7
822.7
746.4
683.6
641.8
611.0
593.2
548.9
527.9
502.7
478.1
449.2
418.4
387.6
352.0
320.0
301.5
228.3
181.5
138.4
80.0
0.0

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