

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: P939595

Luminaire Tested: **GALN-SB2B-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939595
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-SB2B-735-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11158 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

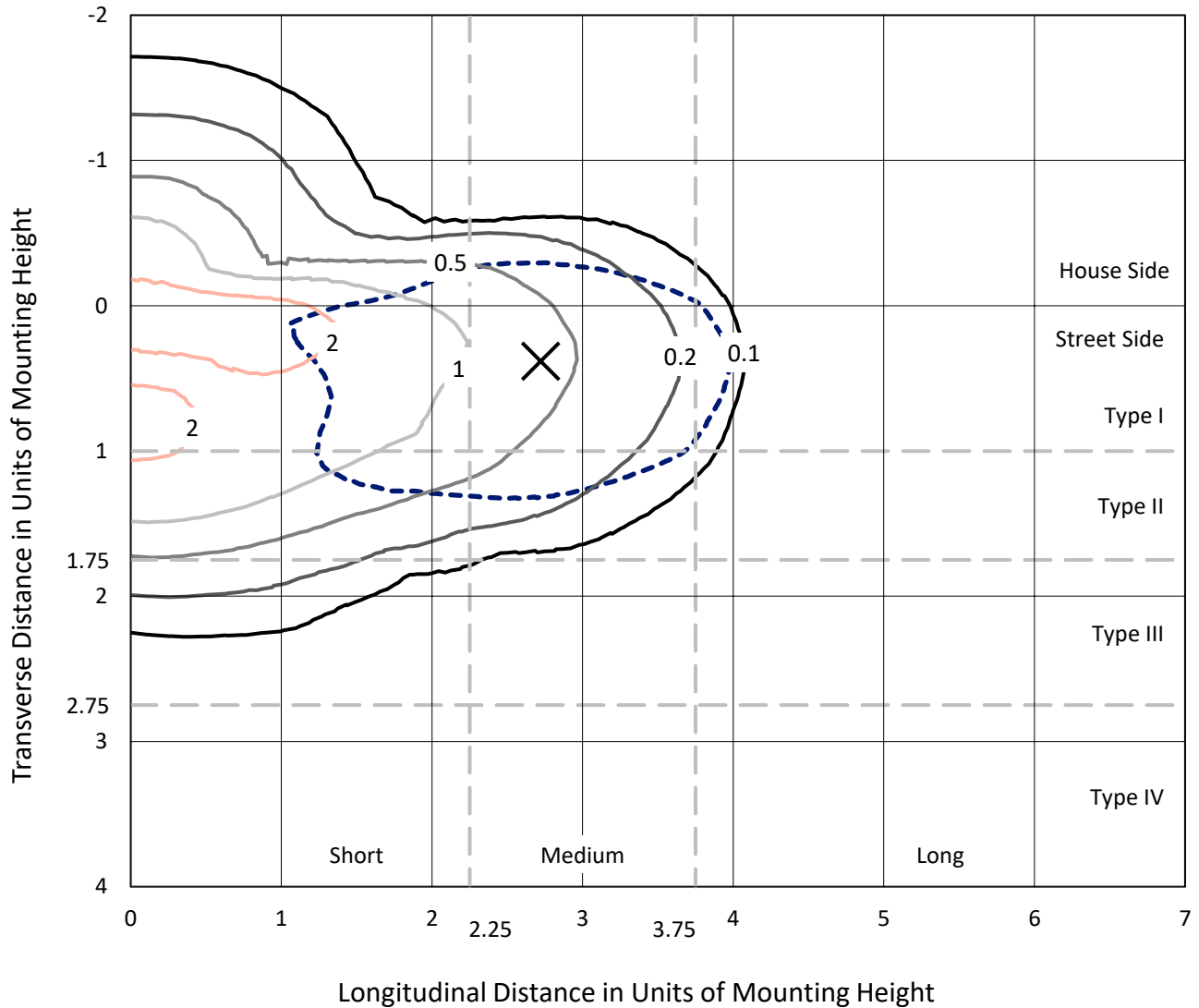
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

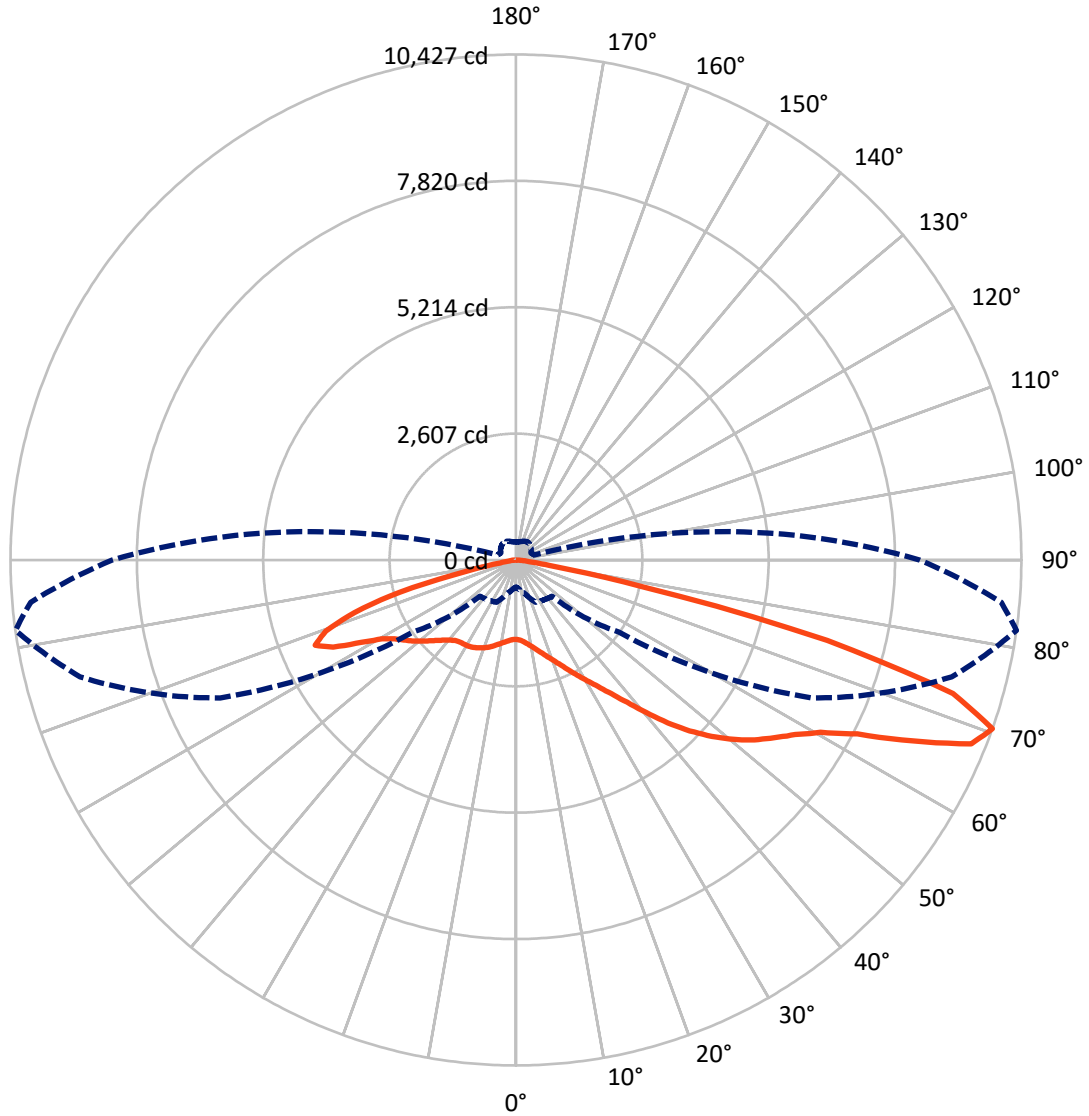
✕ Max cd
 - - - 1/2 Max cd



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

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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	2750.7	0.0	2750.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	8407.3	0.0	8407.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	11158.0	0.0	11158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	1.4
10°-20°	443.8	4.0
20°-30°	742.4	6.7
30°-40°	1159.8	10.4
40°-50°	1847.1	16.6
50°-60°	2570.5	23.0
60°-70°	2688.8	24.1
70°-80°	1405.3	12.6
80°-90°	145.9	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°	11158.0	100.0
0°-180°	11158.0	100.0

Coefficient of Utilization



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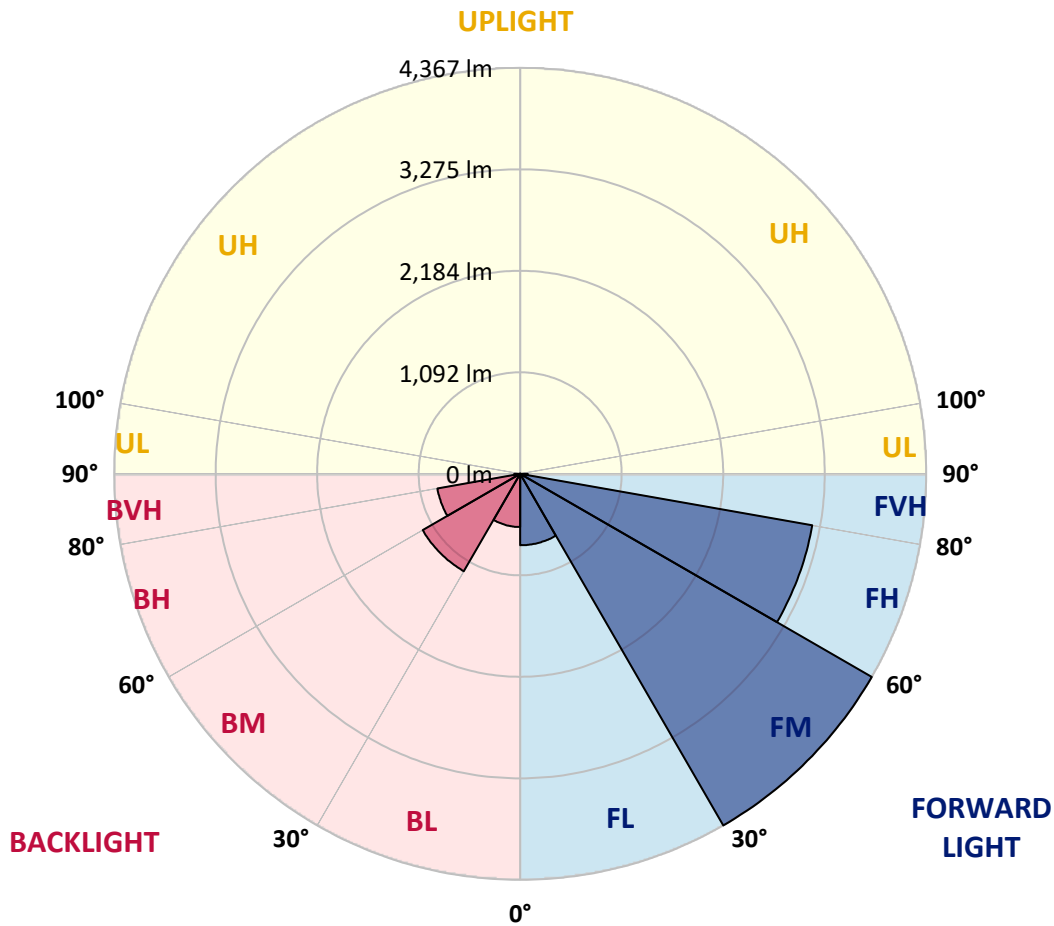
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	768.4	6.9			
FM (30°-60°)	4367.1	39.1			
FH (60°-80°)	3190.1	28.6			G2/5000
FVH (80°-90°)	81.7	0.7			G1/100
BL (0°-30°)	572.3	5.1	B2/1000		
BM (30°-60°)	1210.2	10.8	B2/2500		
BH (60°-80°)	904.0	8.1	B2/1000		G2/1000
BVH (80°-90°)	64.2	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°	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9
2.5°	1675.0	1684.5	1681.5	1678.5	1678.5	1674.4	1673.8	1667.9	1663.1	1655.4
5°	1696.3	1706.4	1705.2	1707.5	1715.2	1717.0	1718.8	1715.2	1705.8	1696.3
7.5°	1677.3	1688.6	1692.1	1706.4	1730.0	1751.4	1767.3	1773.9	1765.0	1751.4
10°	1613.4	1625.8	1638.3	1672.0	1714.1	1764.4	1807.0	1832.5	1830.7	1817.7
12.5°	1483.7	1496.8	1523.4	1589.1	1666.1	1754.9	1834.2	1887.5	1905.9	1896.4
15°	1380.1	1391.4	1411.5	1479.0	1579.1	1714.1	1844.3	1947.9	1994.7	1989.4
17.5°	1377.2	1381.9	1394.3	1426.3	1503.3	1650.1	1833.7	2007.1	2096.5	2095.9
20°	1429.3	1431.0	1438.1	1444.7	1488.5	1601.6	1806.4	2056.3	2210.8	2210.8
22.5°	1501.5	1500.3	1507.4	1501.5	1522.8	1597.4	1789.2	2099.5	2338.1	2347.6
25°	1609.9	1603.9	1602.2	1588.5	1592.7	1635.9	1808.2	2148.6	2489.1	2508.6
27.5°	1754.3	1744.8	1738.3	1707.0	1696.3	1715.2	1866.2	2207.8	2657.2	2691.0
30°	1942.6	1925.4	1916.0	1861.5	1823.0	1826.0	1953.8	2286.6	2833.1	2887.5
32.5°	2199.6	2172.9	2147.5	2058.1	1987.6	1964.5	2066.9	2395.5	3023.7	3110.8
35°	2487.3	2466.0	2438.8	2300.8	2192.5	2139.2	2219.7	2547.7	3246.9	3384.9
37.5°	2764.4	2746.0	2759.1	2573.2	2433.4	2355.9	2419.8	2752.0	3522.3	3725.9
40°	3051.0	3036.8	3038.5	2860.9	2698.1	2611.0	2662.6	3008.3	3837.8	4131.5
42.5°	3362.4	3351.7	3316.2	3158.7	2975.8	2894.7	2942.0	3304.4	4176.5	4593.3
45°	3711.1	3704.6	3671.5	3490.9	3281.3	3190.1	3254.0	3631.2	4516.9	5027.9
47.5°	4012.5	4017.8	4013.7	3861.5	3644.2	3510.4	3586.8	3972.2	4833.7	5436.4
50°	4157.5	4185.4	4226.2	4178.9	4043.9	3907.7	3922.5	4301.4	5135.7	5819.5
52.5°	4081.8	4134.5	4245.8	4321.6	4373.7	4345.2	4305.6	4628.2	5419.9	6165.3
55°	3799.3	3873.4	4058.1	4241.0	4506.9	4713.5	4765.6	4990.6	5696.9	6469.6
57.5°	3284.8	3405.0	3570.8	3940.8	4388.5	4891.7	5302.0	5493.3	5990.6	6794.6
60°	2402.6	2563.7	2769.7	3320.4	3974.0	4796.4	5758.5	6265.3	6408.0	7215.6
62.5°	1537.6	1637.1	1826.6	2345.2	3096.6	4307.9	5898.2	7230.4	7115.6	7906.0
65°	1052.7	1116.7	1290.1	1581.4	2001.8	3206.7	5524.1	7953.9	8239.3	9000.1
67.5°	765.0	813.5	961.5	1216.7	1304.3	1897.6	4286.6	7920.8	9331.7	10127.4
70°	557.7	592.1	716.4	961.5	1003.6	1055.7	2596.8	6733.1	9308.0	10427.0
72.5°	413.3	437.0	520.4	746.0	812.3	712.9	1285.4	4893.5	7998.3	9431.2
75°	299.0	316.8	378.3	570.8	650.1	542.9	641.2	2859.7	5579.1	6634.2
77.5°	228.5	242.2	282.4	418.0	520.4	407.3	397.9	1315.6	2645.4	2658.4
80°	183.5	192.4	214.3	294.3	399.1	304.9	259.3	531.1	836.0	707.5
82.5°	135.0	149.8	181.2	206.6	285.4	210.2	158.1	268.2	317.9	273.5
85°	77.0	87.0	109.5	148.0	182.4	128.5	90.6	119.0	148.0	121.4
87.5°	27.2	35.5	38.5	58.0	79.3	53.3	34.9	34.3	48.6	36.1
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°
1635.9	0°	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9	1635.9
1653.7	2.5°	1647.7	1644.8	1632.9	1617.0	1600.4	1584.4	1579.1	1567.8	1560.1	1556.0
1692.1	5°	1680.9	1671.4	1643.6	1608.1	1570.8	1530.5	1502.1	1476.0	1457.1	1439.3
1744.8	7.5°	1728.3	1711.7	1663.7	1601.6	1535.2	1468.3	1418.6	1380.7	1355.3	1338.7
1806.4	10°	1783.3	1757.9	1684.5	1591.5	1489.1	1393.2	1334.5	1302.0	1286.0	1277.1
1876.9	12.5°	1846.7	1810.6	1705.8	1568.4	1418.6	1309.1	1268.8	1259.3	1259.9	1260.5
1965.7	15°	1924.8	1874.5	1722.9	1518.1	1326.8	1244.5	1237.4	1252.8	1268.8	1276.5
2066.3	17.5°	2013.1	1942.0	1725.9	1435.2	1236.8	1203.1	1225.6	1258.8	1283.0	1293.7
2178.8	20°	2107.8	2010.7	1704.6	1318.0	1162.8	1169.3	1209.6	1252.2	1278.9	1292.5
2307.3	22.5°	2216.1	2084.1	1653.7	1194.8	1102.4	1132.6	1180.0	1221.5	1249.3	1262.9
2458.3	25°	2339.9	2166.4	1573.7	1091.2	1050.3	1091.2	1138.6	1172.9	1195.4	1207.8
2627.0	27.5°	2477.2	2252.3	1467.2	1008.9	1004.8	1048.6	1087.6	1114.3	1126.1	1135.6
2806.4	30°	2615.2	2330.4	1338.1	946.7	965.1	1006.5	1034.4	1046.2	1049.7	1051.5
3006.6	32.5°	2764.4	2397.9	1202.5	895.2	927.2	965.7	982.3	987.6	971.0	959.8
3249.3	35°	2945.0	2470.1	1069.9	854.4	889.9	923.0	928.4	923.6	904.1	881.0
3553.6	37.5°	3168.2	2560.1	963.9	825.4	855.0	876.9	870.3	869.2	870.9	843.7
3919.5	40°	3441.7	2677.4	886.3	802.9	826.5	831.3	812.9	823.0	831.9	790.4
4321.0	42.5°	3745.5	2818.9	837.2	787.5	802.9	791.6	763.2	774.4	773.2	718.8
4724.2	45°	4055.1	2972.8	820.0	776.2	780.9	758.4	727.1	730.0	705.2	656.0
5110.8	47.5°	4363.0	3138.0	830.7	766.7	753.7	728.3	704.0	691.0	654.2	617.5
5481.4	50°	4665.0	3311.5	869.8	747.8	716.4	701.6	683.8	660.8	621.7	590.3
5831.9	52.5°	4945.0	3486.1	913.6	716.4	669.6	678.5	667.3	640.6	602.1	570.2
6163.5	55°	5210.3	3660.8	930.7	673.2	625.8	658.4	651.9	602.7	556.6	530.5
6510.5	57.5°	5499.2	3871.0	911.8	618.1	590.3	635.3	610.4	556.0	529.3	509.8
6962.2	60°	5899.4	4200.8	870.9	550.0	556.6	601.0	558.3	535.8	506.8	484.9
7639.5	62.5°	6564.3	4815.9	805.2	482.5	516.9	550.0	533.5	511.0	481.4	460.0
8797.6	65°	7547.2	5670.9	681.5	429.8	472.5	500.3	506.8	484.3	453.5	431.0
9812.5	67.5°	8376.1	6207.3	515.7	386.0	426.9	460.0	478.4	456.5	423.9	402.0
10049.9	70°	8330.5	5817.7	393.7	342.8	386.6	420.4	444.1	426.9	392.0	371.2
9128.6	72.5°	7399.2	4866.9	318.5	299.0	345.8	378.9	407.3	394.3	358.8	338.7
6687.5	75°	5435.8	3454.8	254.6	254.6	294.9	335.7	367.1	358.8	326.2	312.0
2807.6	77.5°	2291.3	1449.4	199.5	211.4	245.1	288.3	327.4	330.4	302.0	319.7
742.5	80°	609.2	399.7	152.2	166.4	192.4	238.0	284.8	283.6	252.8	236.2
275.9	82.5°	232.1	157.5	108.3	117.2	139.1	182.4	225.6	232.7	201.9	174.7
108.3	85°	89.4	67.5	66.9	70.5	81.1	120.8	170.5	176.4	152.2	129.1
30.2	87.5°	23.1	20.1	24.9	23.7	37.3	64.5	97.7	101.2	93.0	53.9
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>
1635.9
1560.7
1446.4
1342.2
1279.5
1261.7
1275.9
1296.1
1296.1
1266.4
1211.4
1139.2
1055.7
963.3
882.2
845.5
791.6
718.2
657.8
617.5
587.9
570.8
528.1
508.0
483.7
460.0
432.2
402.6
373.0
338.7
307.9
290.1
219.7
174.7
133.2
77.0
0.0

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