

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: P939815

Luminaire Tested: **GALN-SB2C-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939815
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-SB2C-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13334 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

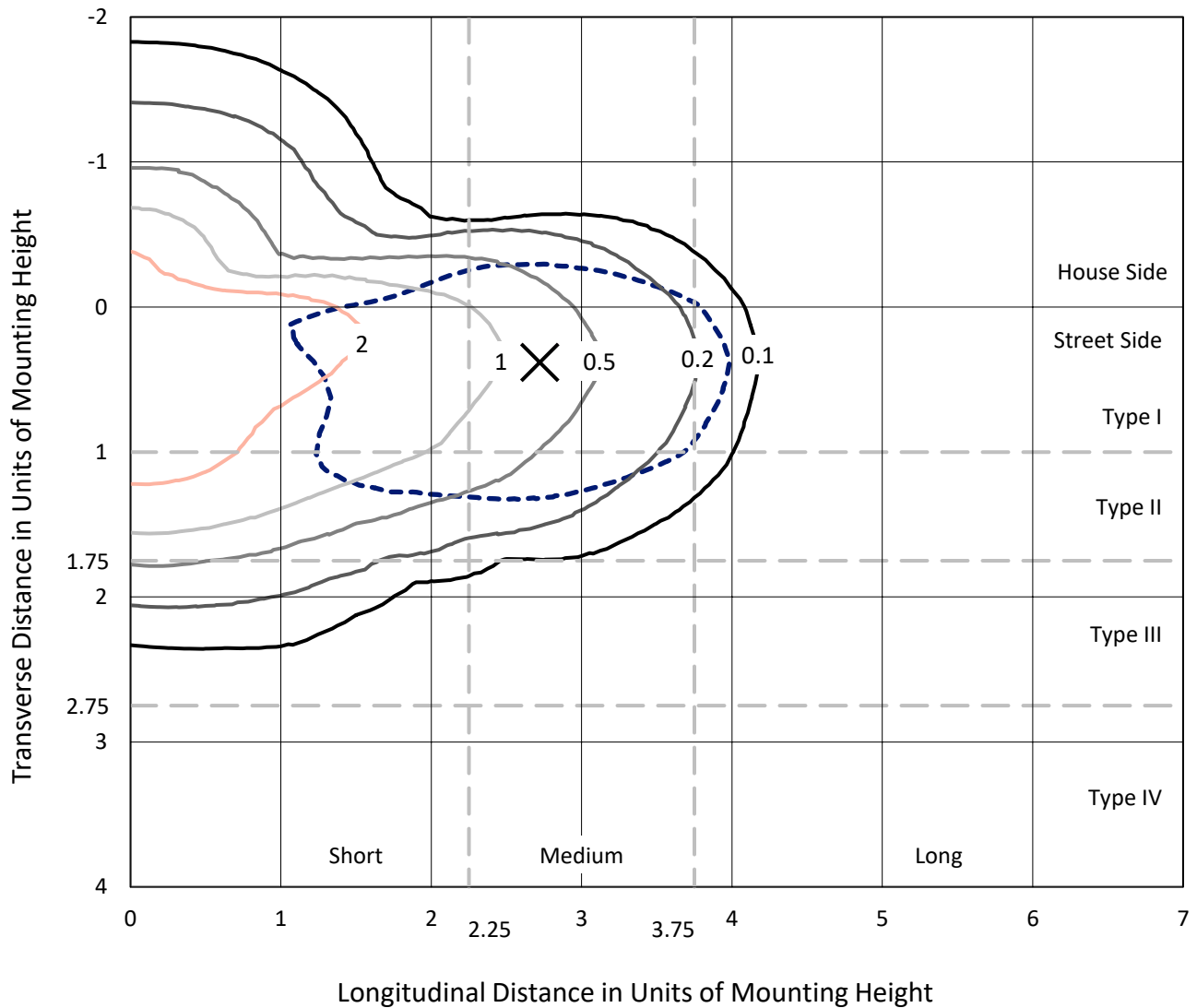
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

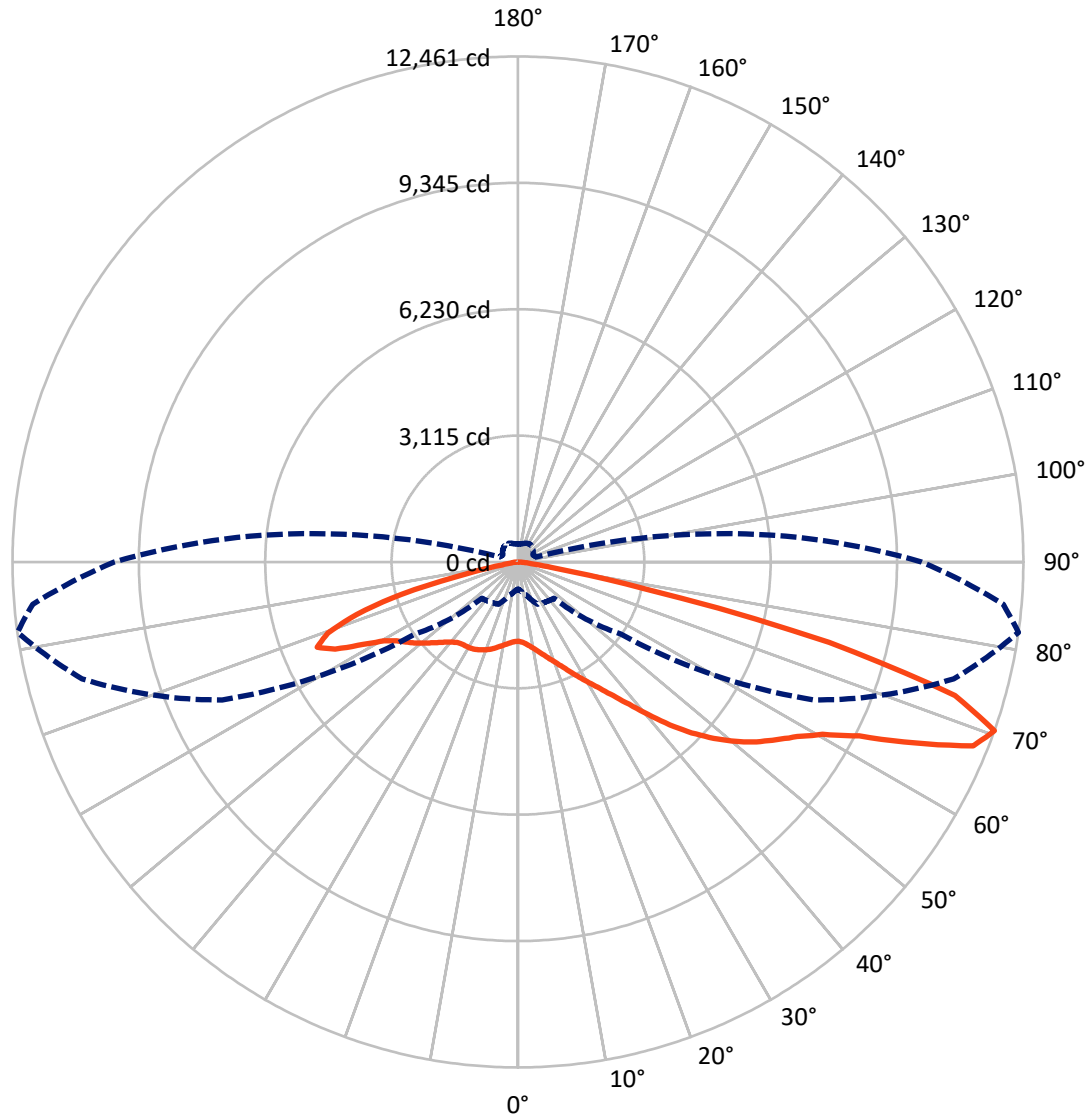
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	3287.2	0.0	3287.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	10046.8	0.0	10046.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	13334.0	0.0	13334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.6	1.4
10°-20°	530.3	4.0
20°-30°	887.2	6.7
30°-40°	1386.0	10.4
40°-50°	2207.3	16.6
50°-60°	3071.7	23.0
60°-70°	3213.2	24.1
70°-80°	1679.4	12.6
80°-90°	174.4	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°	13334.0	100.0
0°-180°	13334.0	100.0

Coefficient of Utilization



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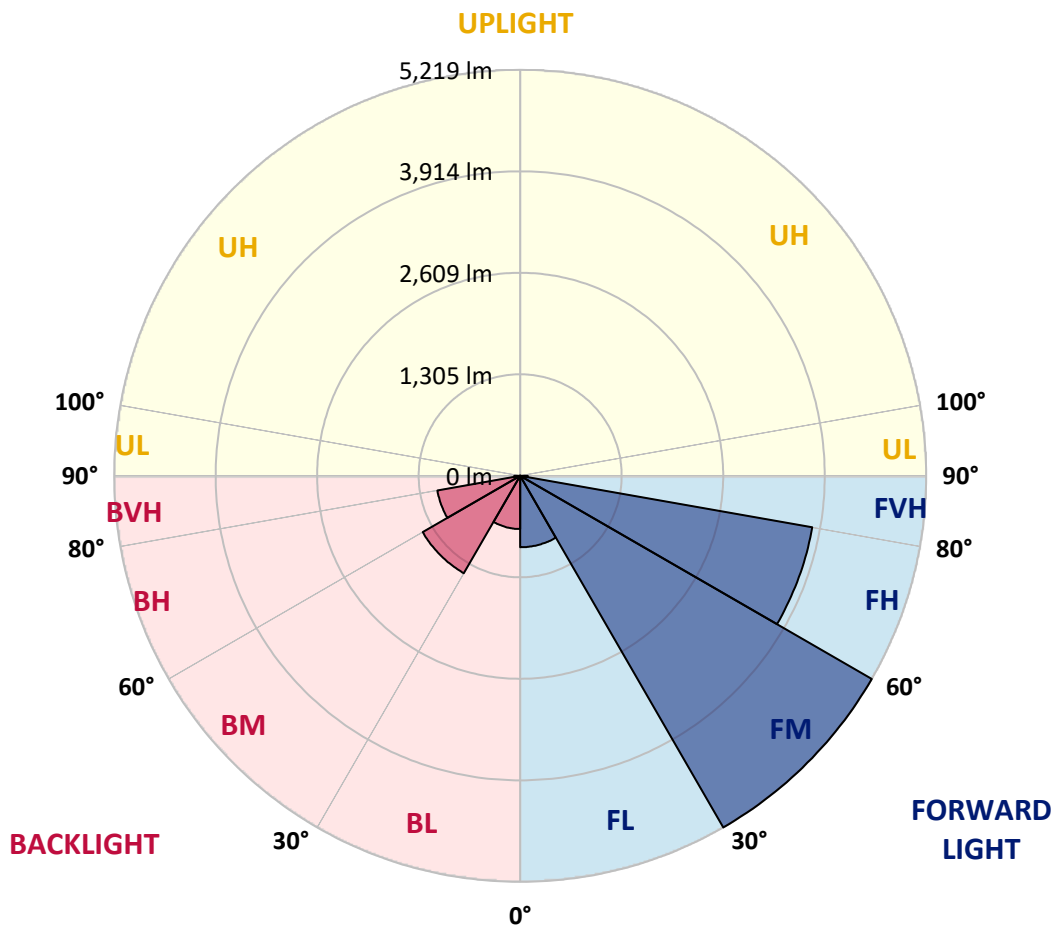
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.2	6.9			
FM (30°-60°)	5218.8	39.1			
FH (60°-80°)	3812.2	28.6			G2/5000
FVH (80°-90°)	97.6	0.7			G1/100
BL (0°-30°)	683.8	5.1	B2/1000		
BM (30°-60°)	1446.2	10.8	B2/2500		
BH (60°-80°)	1080.3	8.1	B3/2500		G3/2500
BVH (80°-90°)	76.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1954.9	1954.9	1954.9	1954.9	1954.9	1954.9	1954.9	1954.9	1954.9	1954.9
2.5°	2001.6	2012.9	2009.4	2005.9	2005.9	2000.9	2000.2	1993.1	1987.5	1978.3
5°	2027.1	2039.1	2037.7	2040.5	2049.7	2051.9	2054.0	2049.7	2038.4	2027.1
7.5°	2004.5	2017.9	2022.1	2039.1	2067.4	2092.9	2112.0	2119.8	2109.2	2092.9
10°	1928.0	1942.9	1957.8	1998.1	2048.3	2108.5	2159.4	2189.8	2187.7	2172.1
12.5°	1773.1	1788.7	1820.5	1899.0	1991.0	2097.1	2192.0	2255.6	2277.6	2266.2
15°	1649.3	1662.7	1686.8	1767.4	1887.0	2048.3	2204.0	2327.8	2383.7	2377.3
17.5°	1645.7	1651.4	1666.3	1704.5	1796.4	1971.9	2191.2	2398.6	2505.4	2504.7
20°	1708.0	1710.1	1718.6	1726.4	1778.8	1913.9	2158.7	2457.3	2642.0	2642.0
22.5°	1794.3	1792.9	1801.4	1794.3	1819.8	1908.9	2138.2	2508.9	2794.1	2805.4
25°	1923.8	1916.7	1914.6	1898.3	1903.3	1954.9	2160.8	2567.7	2974.5	2997.8
27.5°	2096.4	2085.1	2077.3	2039.8	2027.1	2049.7	2230.2	2638.4	3175.4	3215.8
30°	2321.4	2300.9	2289.6	2224.5	2178.5	2182.1	2334.9	2732.5	3385.6	3450.7
32.5°	2628.5	2596.7	2566.2	2459.4	2375.2	2347.6	2470.0	2862.7	3613.4	3717.4
35°	2972.4	2946.9	2914.4	2749.5	2620.0	2556.3	2652.6	3044.5	3880.1	4045.0
37.5°	3303.5	3281.6	3297.1	3075.0	2908.0	2815.3	2891.7	3288.6	4209.2	4452.5
40°	3646.0	3629.0	3631.1	3418.8	3224.3	3120.2	3181.8	3595.0	4586.3	4937.2
42.5°	4018.1	4005.4	3962.9	3774.7	3556.1	3459.2	3515.8	3948.8	4991.0	5489.1
45°	4434.9	4427.1	4387.5	4171.7	3921.2	3812.2	3888.6	4339.3	5397.8	6008.4
47.5°	4795.0	4801.4	4796.4	4614.6	4354.9	4195.0	4286.3	4746.9	5776.4	6496.6
50°	4968.3	5001.6	5050.4	4993.8	4832.5	4669.8	4687.4	5140.3	6137.2	6954.4
52.5°	4877.8	4940.7	5073.8	5164.3	5226.6	5192.6	5145.2	5530.8	6476.8	7367.6
55°	4540.3	4628.7	4849.5	5068.1	5385.8	5632.7	5695.0	5963.8	6807.9	7731.3
57.5°	3925.4	4069.1	4267.2	4709.4	5244.3	5845.7	6336.0	6564.5	7158.9	8119.7
60°	2871.2	3063.6	3309.9	3967.9	4749.0	5731.8	6881.5	7487.2	7657.7	8622.8
62.5°	1837.5	1956.3	2182.8	2802.6	3700.4	5148.1	7048.5	8640.5	8503.2	9447.8
65°	1258.0	1334.4	1541.7	1889.8	2392.2	3832.0	6601.3	9505.1	9846.1	10755.3
67.5°	914.1	972.2	1149.0	1454.0	1558.7	2267.7	5122.6	9465.5	11151.5	12102.5
70°	666.5	707.5	856.1	1149.0	1199.3	1261.5	3103.3	8046.1	11123.2	12460.5
72.5°	493.9	522.2	621.9	891.5	970.7	851.9	1536.1	5847.8	9558.1	11270.4
75°	357.3	378.5	452.1	682.1	776.9	648.8	766.3	3417.4	6667.1	7928.0
77.5°	273.1	289.4	337.5	499.5	621.9	486.8	475.5	1572.2	3161.3	3176.9
80°	219.3	230.0	256.1	351.6	476.9	364.4	309.9	634.7	999.0	845.5
82.5°	161.3	179.0	216.5	246.9	341.0	251.2	188.9	320.5	379.9	326.9
85°	92.0	104.0	130.9	176.9	217.9	153.5	108.3	142.2	176.9	145.0
87.5°	32.5	42.5	46.0	69.3	94.8	63.7	41.7	41.0	58.0	43.2
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°
1954.9	0°	1954.9	1954.9	1954.9	1954.9	1954.9	1954.9	1954.9	1954.9	1954.9	1954.9
1976.2	2.5°	1969.1	1965.5	1951.4	1932.3	1912.5	1893.4	1887.0	1873.6	1864.4	1859.4
2022.1	5°	2008.7	1997.4	1964.1	1921.7	1877.1	1829.0	1795.0	1763.9	1741.3	1720.0
2085.1	7.5°	2065.3	2045.5	1988.2	1913.9	1834.6	1754.7	1695.3	1650.0	1619.6	1599.7
2158.7	10°	2131.1	2100.7	2012.9	1901.9	1779.5	1664.8	1594.8	1555.9	1536.8	1526.2
2242.9	12.5°	2206.8	2163.7	2038.4	1874.3	1695.3	1564.4	1516.3	1504.9	1505.6	1506.4
2349.0	15°	2300.2	2240.1	2058.9	1814.1	1585.6	1487.2	1478.8	1497.2	1516.3	1525.5
2469.3	17.5°	2405.6	2320.7	2062.5	1715.1	1478.0	1437.7	1464.6	1504.2	1533.2	1546.0
2603.7	20°	2518.8	2402.8	2037.0	1575.0	1389.6	1397.4	1445.5	1496.4	1528.3	1544.6
2757.3	22.5°	2648.3	2490.5	1976.2	1427.8	1317.4	1353.5	1410.1	1459.7	1492.9	1509.2
2937.7	25°	2796.2	2588.9	1880.6	1304.0	1255.2	1304.0	1360.6	1401.6	1428.5	1443.4
3139.4	27.5°	2960.3	2691.5	1753.3	1205.6	1200.7	1253.1	1299.7	1331.6	1345.7	1357.1
3353.7	30°	3125.2	2784.9	1599.0	1131.4	1153.3	1202.8	1236.1	1250.2	1254.5	1256.6
3592.9	32.5°	3303.5	2865.5	1437.0	1069.8	1108.0	1154.0	1173.8	1180.2	1160.4	1146.9
3883.0	35°	3519.3	2951.9	1278.5	1021.0	1063.4	1103.1	1109.4	1103.8	1080.4	1052.8
4246.7	37.5°	3786.0	3059.4	1151.9	986.3	1021.7	1047.9	1040.1	1038.7	1040.8	1008.2
4683.9	40°	4112.9	3199.5	1059.2	959.4	987.7	993.4	971.5	983.5	994.1	944.6
5163.6	42.5°	4475.9	3368.6	1000.5	941.0	959.4	946.0	912.0	925.5	924.0	859.0
5645.5	45°	4845.9	3552.6	979.9	927.6	933.2	906.4	868.9	872.4	842.7	784.0
6107.5	47.5°	5213.9	3750.0	992.7	916.3	900.7	870.3	841.3	825.7	781.8	738.0
6550.4	50°	5574.7	3957.3	1039.4	893.6	856.1	838.4	817.2	789.6	742.9	705.4
6969.3	52.5°	5909.4	4166.0	1091.7	856.1	800.2	810.8	797.4	765.6	719.6	681.4
7365.5	55°	6226.3	4374.7	1112.3	804.5	747.9	786.8	779.0	720.3	665.1	634.0
7780.1	57.5°	6571.6	4625.9	1089.6	738.7	705.4	759.2	729.5	664.4	632.5	609.2
8320.0	60°	7049.9	5020.0	1040.8	657.3	665.1	718.2	667.2	640.3	605.7	579.5
9129.4	62.5°	7844.5	5755.1	962.3	576.6	617.7	657.3	637.5	610.6	575.2	549.8
10513.3	65°	9019.0	6776.8	814.4	513.7	564.6	597.9	605.7	578.8	542.0	515.1
11726.0	67.5°	10009.6	7417.8	616.3	461.3	510.1	549.8	571.7	545.5	506.6	480.4
12009.8	70°	9955.1	6952.3	470.5	409.7	462.0	502.4	530.7	510.1	468.4	443.6
10908.8	72.5°	8842.1	5816.0	380.7	357.3	413.2	452.8	486.8	471.2	428.8	404.7
7991.7	75°	6495.9	4128.5	304.2	304.2	352.4	401.2	438.7	428.8	389.9	372.9
3355.2	77.5°	2738.2	1732.1	238.4	252.6	292.9	344.6	391.3	394.8	360.8	382.1
887.3	80°	728.1	477.6	181.8	198.8	230.0	284.4	340.3	338.9	302.1	282.3
329.7	82.5°	277.4	188.2	129.5	140.1	166.3	217.9	269.6	278.1	241.3	208.7
129.5	85°	106.8	80.7	80.0	84.2	96.9	144.3	203.8	210.8	181.8	154.2
36.1	87.5°	27.6	24.1	29.7	28.3	44.6	77.1	116.7	121.0	111.1	64.4
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>
1954.9
1865.1
1728.5
1604.0
1529.0
1507.8
1524.7
1548.8
1548.8
1513.4
1447.6
1361.3
1261.5
1151.2
1054.2
1010.4
946.0
858.2
786.1
738.0
702.6
682.1
631.1
607.1
578.1
549.8
516.5
481.1
445.7
404.7
367.9
346.7
262.5
208.7
159.2
92.0
0.0

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