

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: P939845

Luminaire Tested: **GALN-SB2C-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939845
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-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14195 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

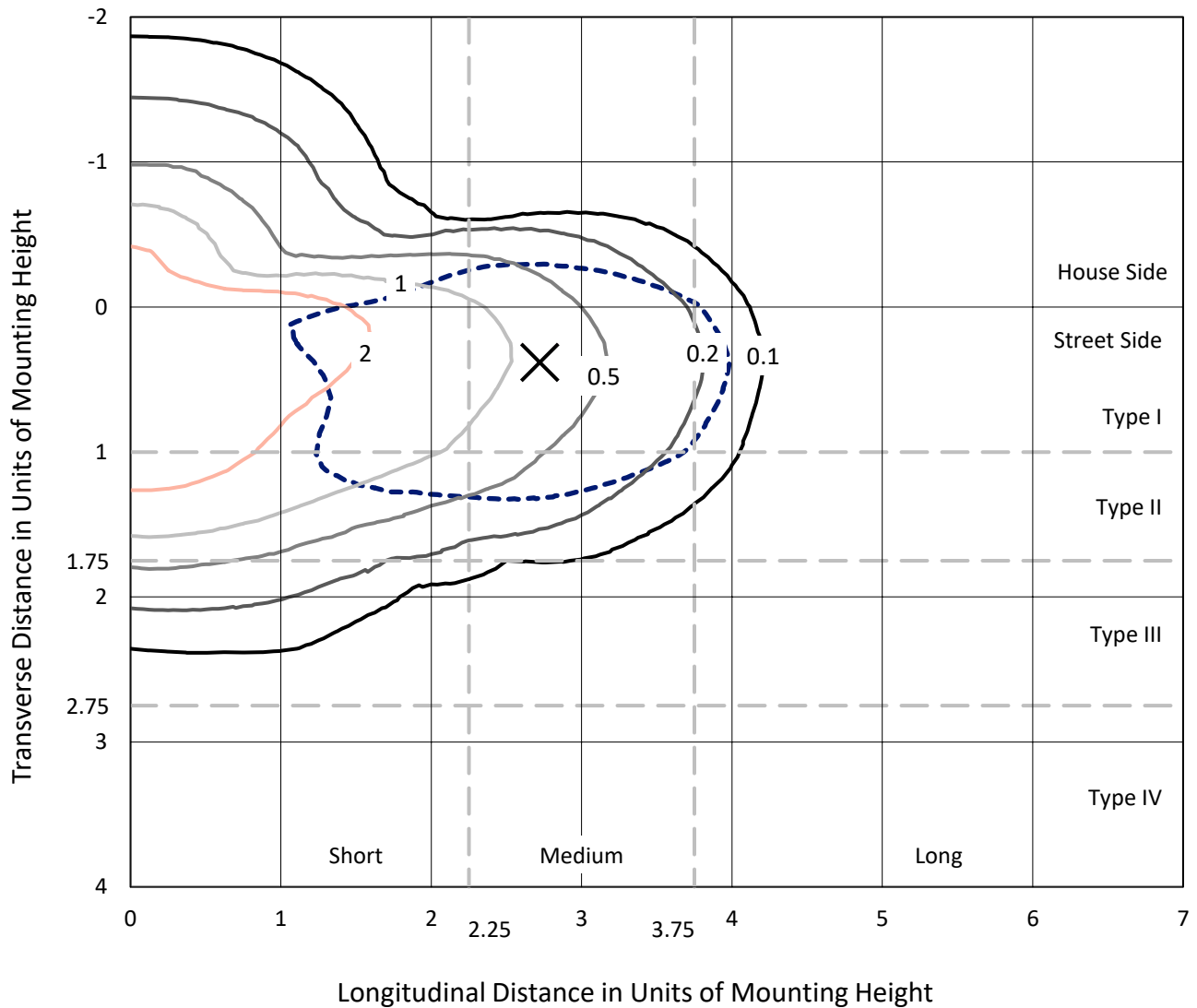
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

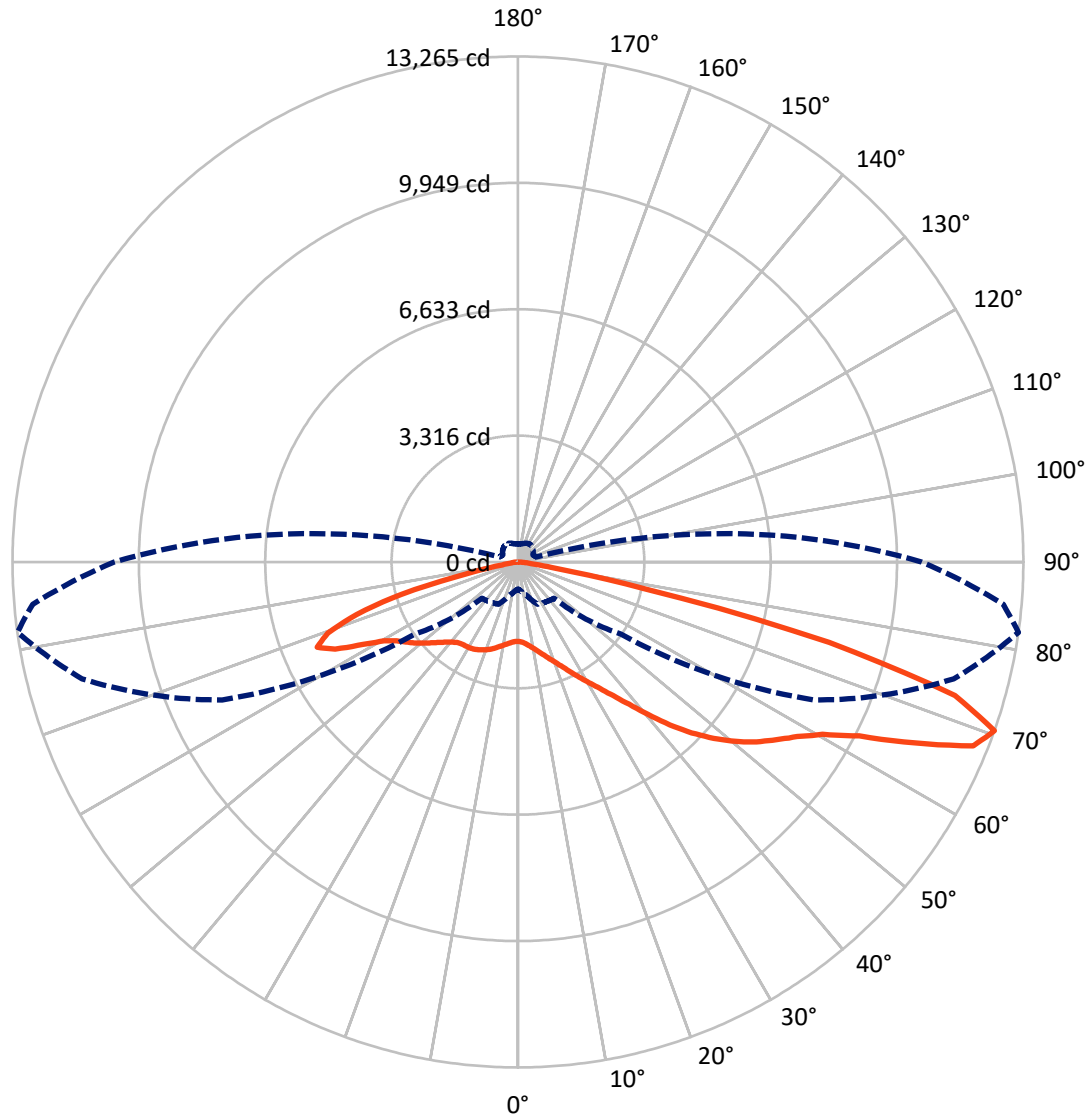
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	3499.4	0.0	3499.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	10695.6	0.0	10695.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	14195.0	0.0	14195.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.5	1.4
10°-20°	564.6	4.0
20°-30°	944.4	6.7
30°-40°	1475.5	10.4
40°-50°	2349.8	16.6
50°-60°	3270.1	23.0
60°-70°	3420.7	24.1
70°-80°	1787.8	12.6
80°-90°	185.6	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°	14195.0	100.0
0°-180°	14195.0	100.0

Coefficient of Utilization



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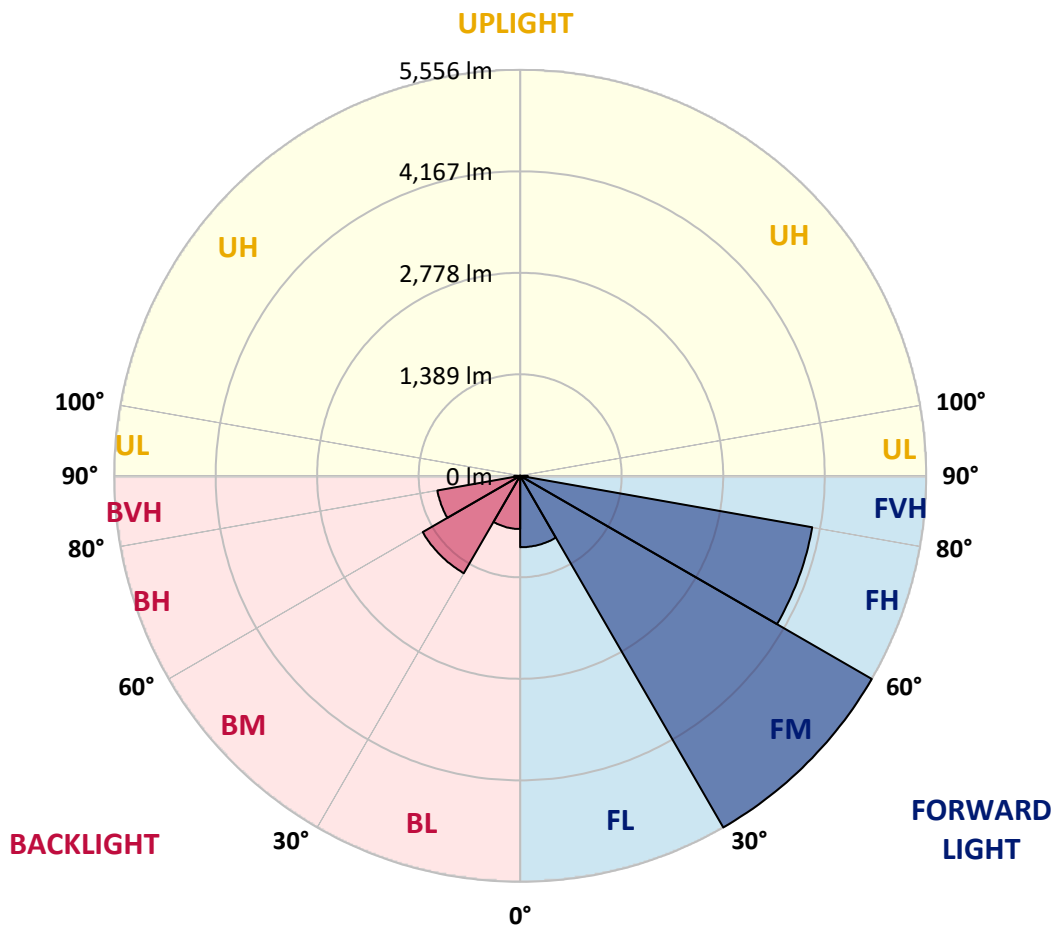
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	977.5	6.9			
FM (30°-60°)	5555.8	39.1			
FH (60°-80°)	4058.4	28.6			G2/5000
FVH (80°-90°)	103.9	0.7			G2/225
BL (0°-30°)	728.0	5.1	B2/1000		
BM (30°-60°)	1539.6	10.8	B2/2500		
BH (60°-80°)	1150.1	8.1	B3/2500		G3/2500
BVH (80°-90°)	81.7	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°	2081.2	2081.2	2081.2	2081.2	2081.2	2081.2	2081.2	2081.2	2081.2	2081.2
2.5°	2130.9	2142.9	2139.2	2135.4	2135.4	2130.1	2129.4	2121.8	2115.8	2106.0
5°	2158.0	2170.8	2169.3	2172.3	2182.1	2184.4	2186.6	2182.1	2170.0	2158.0
7.5°	2133.9	2148.2	2152.7	2170.8	2200.9	2228.0	2248.4	2256.7	2245.4	2228.0
10°	2052.5	2068.4	2084.2	2127.1	2180.6	2244.6	2298.8	2331.2	2329.0	2312.4
12.5°	1887.6	1904.2	1938.1	2021.7	2119.6	2232.6	2333.5	2401.3	2424.6	2412.6
15°	1755.8	1770.1	1795.7	1881.6	2008.9	2180.6	2346.3	2478.1	2537.6	2530.8
17.5°	1752.0	1758.0	1773.8	1814.5	1912.4	2099.2	2332.7	2553.4	2667.2	2666.4
20°	1818.3	1820.5	1829.6	1837.9	1893.6	2037.5	2298.1	2616.0	2812.5	2812.5
22.5°	1910.2	1908.7	1917.7	1910.2	1937.3	2032.2	2276.3	2670.9	2974.5	2986.5
25°	2048.0	2040.5	2038.2	2020.9	2026.2	2081.2	2300.4	2733.5	3166.6	3191.4
27.5°	2231.8	2219.8	2211.5	2171.6	2158.0	2182.1	2374.2	2808.8	3380.5	3423.4
30°	2471.3	2449.5	2437.4	2368.1	2319.2	2323.0	2485.6	2909.0	3604.2	3673.5
32.5°	2798.2	2764.3	2732.0	2618.2	2528.6	2499.2	2629.5	3047.6	3846.7	3957.5
35°	3164.3	3137.2	3102.5	2927.0	2789.2	2721.4	2823.8	3241.1	4130.7	4306.2
37.5°	3516.8	3493.5	3510.0	3273.5	3095.8	2997.1	3078.4	3501.0	4480.9	4740.1
40°	3881.4	3863.3	3865.6	3639.6	3432.5	3321.7	3387.3	3827.1	4882.4	5256.0
42.5°	4277.6	4264.0	4218.8	4018.5	3785.7	3682.5	3742.8	4203.8	5313.3	5843.5
45°	4721.2	4712.9	4670.8	4441.0	4174.4	4058.4	4139.7	4619.5	5746.4	6396.4
47.5°	5104.6	5111.4	5106.1	4912.5	4636.1	4465.9	4563.0	5053.4	6149.3	6916.1
50°	5289.2	5324.6	5376.5	5316.3	5144.5	4971.3	4990.1	5472.2	6533.5	7403.5
52.5°	5192.7	5259.8	5401.4	5497.8	5564.1	5527.9	5477.5	5888.0	6895.0	7843.3
55°	4833.5	4927.6	5162.6	5395.4	5733.6	5996.4	6062.7	6348.9	7247.5	8230.5
57.5°	4178.9	4331.8	4542.7	5013.5	5582.9	6223.2	6745.1	6988.4	7621.1	8644.0
60°	3056.6	3261.5	3523.6	4224.1	5055.7	6101.9	7325.9	7970.6	8152.2	9179.6
62.5°	1956.1	2082.7	2323.7	2983.5	3939.4	5480.5	7503.6	9198.4	9052.3	10057.8
65°	1339.2	1420.6	1641.3	2011.9	2546.7	4079.5	7027.6	10118.8	10481.9	11449.8
67.5°	973.2	1034.9	1223.2	1547.9	1659.4	2414.1	5453.4	10076.7	11871.6	12883.9
70°	709.5	753.2	911.4	1223.2	1276.7	1343.0	3303.7	8565.7	11841.5	13265.1
72.5°	525.8	555.9	662.1	949.1	1033.4	906.9	1635.3	6225.4	10175.3	11998.1
75°	380.4	403.0	481.3	726.1	827.0	690.7	815.7	3638.1	7097.7	8439.9
77.5°	290.7	308.1	359.3	531.8	662.1	518.2	506.2	1673.7	3365.4	3382.0
80°	233.5	244.8	272.7	374.4	507.7	387.9	329.9	675.6	1063.6	900.1
82.5°	171.7	190.6	230.5	262.9	363.1	267.4	201.1	341.2	404.5	348.0
85°	97.9	110.7	139.3	188.3	232.0	163.5	115.2	151.4	188.3	154.4
87.5°	34.6	45.2	49.0	73.8	100.9	67.8	44.4	43.7	61.8	45.9
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°
2081.2	0°	2081.2	2081.2	2081.2	2081.2	2081.2	2081.2	2081.2	2081.2	2081.2	2081.2
2103.8	2.5°	2096.2	2092.5	2077.4	2057.1	2036.0	2015.6	2008.9	1994.5	1984.8	1979.5
2152.7	5°	2138.4	2126.4	2091.0	2045.8	1998.3	1947.1	1910.9	1877.8	1853.7	1831.1
2219.8	7.5°	2198.7	2177.6	2116.6	2037.5	1953.1	1868.0	1804.7	1756.5	1724.1	1703.0
2298.1	10°	2268.7	2236.3	2142.9	2024.7	1894.4	1772.3	1697.8	1656.3	1636.0	1624.7
2387.7	12.5°	2349.3	2303.4	2170.0	1995.3	1804.7	1665.4	1614.2	1602.1	1602.9	1603.6
2500.7	15°	2448.7	2384.7	2191.9	1931.3	1688.0	1583.3	1574.2	1593.8	1614.2	1624.0
2628.8	17.5°	2561.0	2470.6	2195.7	1825.8	1573.5	1530.6	1559.2	1601.4	1632.2	1645.8
2771.9	20°	2681.5	2558.0	2168.5	1676.7	1479.3	1487.6	1538.8	1593.1	1627.0	1644.3
2935.3	22.5°	2819.3	2651.4	2103.8	1520.0	1402.5	1440.9	1501.2	1553.9	1589.3	1606.6
3127.4	25°	2976.8	2756.1	2002.1	1388.2	1336.2	1388.2	1448.5	1492.1	1520.8	1536.6
3342.1	27.5°	3151.5	2865.3	1866.5	1283.5	1278.2	1334.0	1383.7	1417.6	1432.6	1444.7
3570.3	30°	3327.0	2964.7	1702.3	1204.4	1227.8	1280.5	1315.9	1331.0	1335.5	1337.7
3824.9	32.5°	3516.8	3050.6	1529.8	1138.9	1179.6	1228.5	1249.6	1256.4	1235.3	1221.0
4133.7	35°	3746.5	3142.5	1361.1	1086.9	1132.1	1174.3	1181.1	1175.0	1150.2	1120.8
4520.9	37.5°	4030.5	3257.0	1226.3	1050.0	1087.7	1115.5	1107.2	1105.7	1108.0	1073.3
4986.4	40°	4378.5	3406.1	1127.6	1021.4	1051.5	1057.5	1034.2	1047.0	1058.3	1005.6
5497.0	42.5°	4764.9	3586.1	1065.1	1001.8	1021.4	1007.1	970.9	985.2	983.7	914.4
6010.0	45°	5158.8	3781.9	1043.2	987.5	993.5	964.9	925.0	928.7	897.1	834.6
6501.9	47.5°	5550.5	3992.1	1056.8	975.4	958.9	926.5	895.6	879.0	832.3	785.6
6973.4	50°	5934.7	4212.8	1106.5	951.3	911.4	892.6	870.0	840.6	790.9	751.0
7419.3	52.5°	6290.9	4435.0	1162.2	911.4	851.9	863.2	848.9	815.0	766.0	725.4
7841.1	55°	6628.4	4657.2	1184.1	856.4	796.2	837.6	829.3	766.8	708.0	674.9
8282.5	57.5°	6996.0	4924.6	1160.0	786.4	751.0	808.2	776.6	707.3	673.4	648.5
8857.2	60°	7505.1	5344.1	1108.0	699.7	708.0	764.5	710.3	681.7	644.8	616.9
9718.9	62.5°	8351.0	6126.7	1024.4	613.9	657.6	699.7	678.7	650.0	612.4	585.3
11192.2	65°	9601.4	7214.4	867.0	546.8	601.1	636.5	644.8	616.1	577.0	548.3
12483.2	67.5°	10655.9	7896.8	656.1	491.1	543.1	585.3	608.6	580.7	539.3	511.4
12785.3	70°	10597.9	7401.2	500.9	436.1	491.9	534.8	564.9	543.1	498.6	472.3
11613.2	72.5°	9413.1	6191.5	405.2	380.4	439.9	482.1	518.2	501.6	456.5	430.8
8507.7	75°	6915.4	4395.1	323.9	323.9	375.1	427.1	467.0	456.5	415.0	397.0
3571.8	77.5°	2915.0	1843.9	253.8	268.9	311.8	366.8	416.5	420.3	384.1	406.7
944.5	80°	775.1	508.4	193.6	211.7	244.8	302.8	362.3	360.8	321.6	300.5
351.0	82.5°	295.3	200.4	137.8	149.1	177.0	232.0	287.0	296.0	256.9	222.2
137.8	85°	113.7	85.9	85.1	89.6	103.2	153.7	216.9	224.5	193.6	164.2
38.4	87.5°	29.4	25.6	31.6	30.1	47.5	82.1	124.3	128.8	118.3	68.5
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>
2081.2
1985.5
1840.1
1707.6
1627.7
1605.1
1623.2
1648.8
1648.8
1611.2
1541.1
1449.2
1343.0
1225.5
1122.3
1075.6
1007.1
913.7
836.8
785.6
748.0
726.1
671.9
646.3
615.4
585.3
549.9
512.2
474.5
430.8
391.7
369.1
279.4
222.2
169.5
97.9
0.0

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