

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: P940315

Luminaire Tested: **GALN-SB3B-827-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940315  
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-SB3B-827-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14557 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

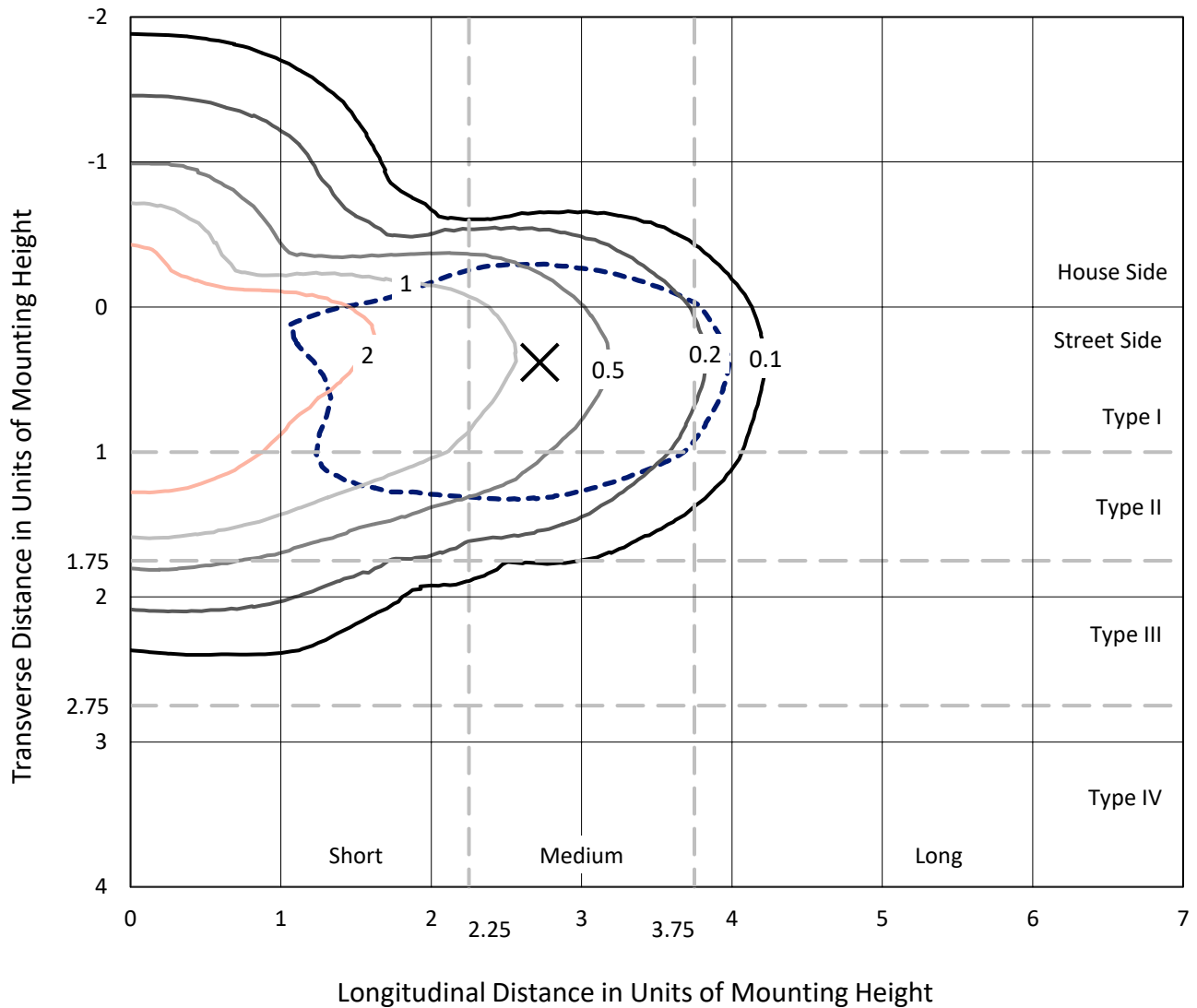
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

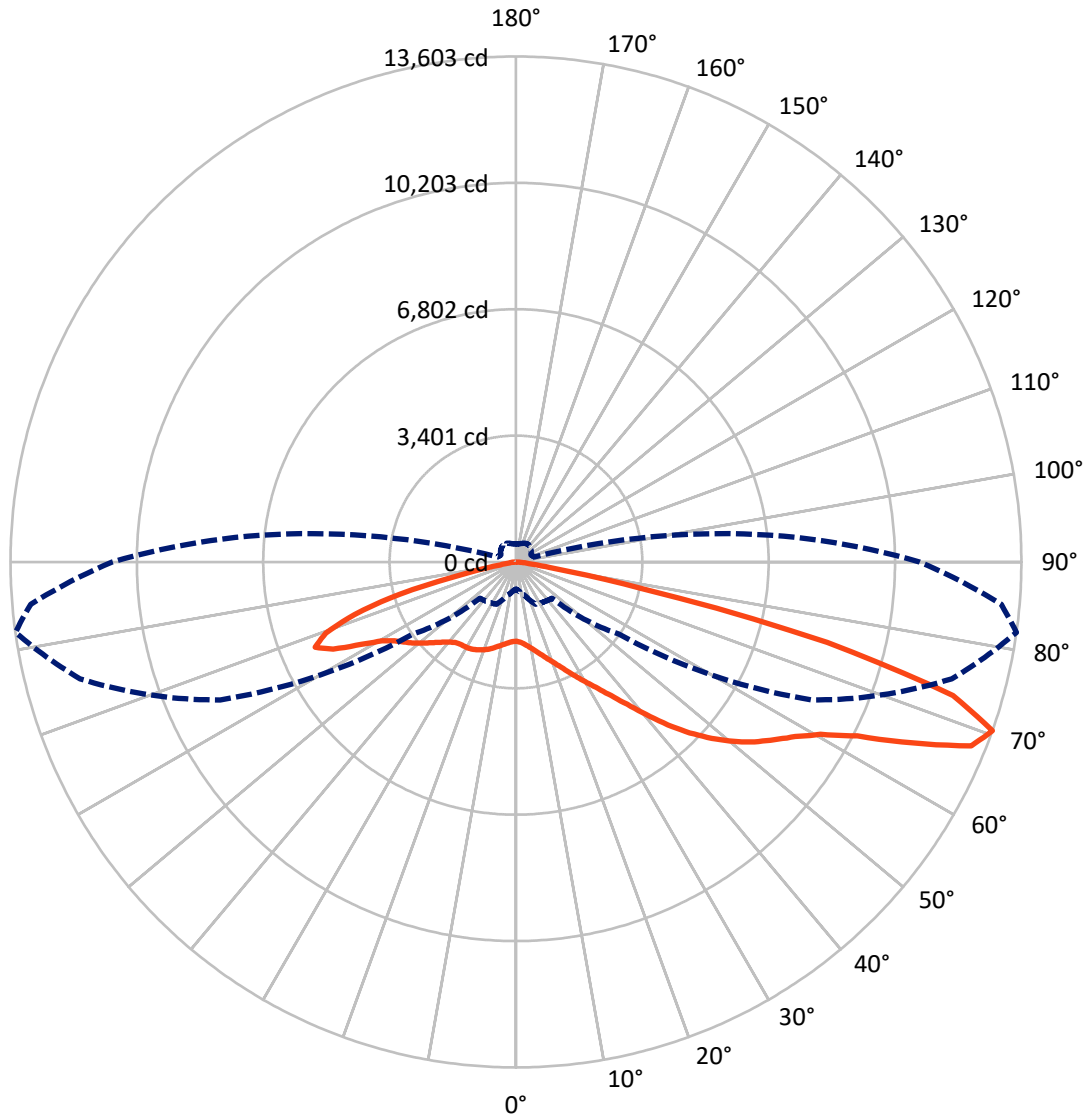
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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
<b>House Side</b>	Lumens	3588.7	0.0	3588.7
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	10968.3	0.0	10968.3
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	14557.0	0.0	14557.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.5	1.4
10°-20°	578.9	4.0
20°-30°	968.5	6.7
30°-40°	1513.1	10.4
40°-50°	2409.8	16.6
50°-60°	3353.5	23.0
60°-70°	3507.9	24.1
70°-80°	1833.4	12.6
80°-90°	190.4	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°	14557.0	100.0
0°-180°	14557.0	100.0

**Coefficient of Utilization**



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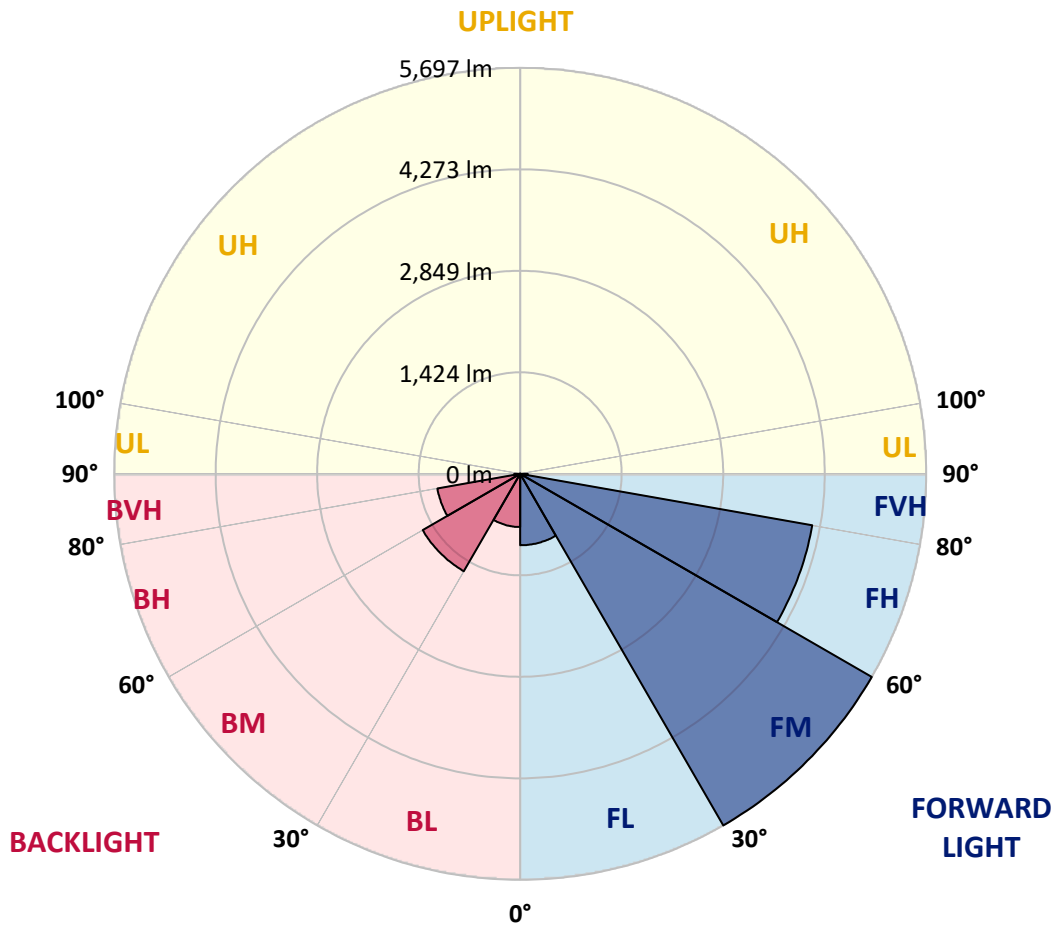
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1002.4	6.9			
FM (30°-60°)	5697.5	39.1			
FH (60°-80°)	4161.9	28.6			G2/5000
FVH (80°-90°)	106.6	0.7			G2/225
BL (0°-30°)	746.6	5.1	B2/1000		
BM (30°-60°)	1578.9	10.8	B2/2500		
BH (60°-80°)	1179.4	8.1	B3/2500		G3/2500
BVH (80°-90°)	83.8	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°	2134.2	2134.2	2134.2	2134.2	2134.2	2134.2	2134.2	2134.2	2134.2	2134.2
2.5°	2185.2	2197.6	2193.7	2189.9	2189.9	2184.4	2183.7	2175.9	2169.8	2159.7
5°	2213.0	2226.2	2224.6	2227.7	2237.7	2240.1	2242.4	2237.7	2225.4	2213.0
7.5°	2188.3	2203.0	2207.6	2226.2	2257.1	2284.9	2305.7	2314.2	2302.6	2284.9
10°	2104.9	2121.1	2137.3	2181.4	2236.2	2301.9	2357.5	2390.7	2388.4	2371.4
12.5°	1935.7	1952.7	1987.5	2073.2	2173.6	2289.5	2393.0	2462.5	2486.5	2474.1
15°	1800.5	1815.2	1841.5	1929.5	2060.1	2236.2	2406.1	2541.3	2602.3	2595.4
17.5°	1796.7	1802.9	1819.1	1860.8	1961.2	2152.8	2392.2	2618.6	2735.2	2734.4
20°	1864.7	1867.0	1876.2	1884.7	1941.9	2089.4	2356.7	2682.7	2884.3	2884.3
22.5°	1958.9	1957.4	1966.6	1958.9	1986.7	2084.0	2334.3	2739.1	3050.3	3062.7
25°	2100.3	2092.5	2090.2	2072.4	2077.9	2134.2	2359.0	2803.2	3247.3	3272.8
27.5°	2288.7	2276.4	2267.9	2226.9	2213.0	2237.7	2434.7	2880.4	3466.7	3510.7
30°	2534.4	2512.0	2499.6	2428.5	2378.3	2382.2	2549.0	2983.1	3696.1	3767.2
32.5°	2869.6	2834.8	2801.6	2685.0	2593.1	2562.9	2696.6	3125.3	3944.8	4058.4
35°	3245.0	3217.2	3181.7	3001.7	2860.3	2790.8	2895.9	3323.8	4236.0	4416.0
37.5°	3606.5	3582.6	3599.5	3357.0	3174.7	3073.5	3156.9	3590.3	4595.2	4860.9
40°	3980.4	3961.8	3964.1	3732.4	3520.0	3406.4	3473.6	3924.7	5006.9	5390.1
42.5°	4386.7	4372.8	4326.4	4120.9	3882.3	3776.4	3838.2	4311.0	5448.8	5992.6
45°	4841.6	4833.1	4789.9	4554.3	4280.8	4161.9	4245.3	4737.3	5892.9	6559.5
47.5°	5234.8	5241.7	5236.3	5037.8	4754.3	4579.8	4679.4	5182.3	6306.2	7092.5
50°	5424.0	5460.3	5513.6	5451.8	5275.7	5098.1	5117.4	5611.7	6700.1	7592.3
52.5°	5325.2	5393.9	5539.1	5638.0	5706.0	5668.9	5617.1	6038.1	7070.9	8043.4
55°	4956.7	5053.3	5294.3	5533.0	5879.8	6149.4	6217.3	6510.9	7432.4	8440.4
57.5°	4285.5	4442.3	4658.6	5141.3	5725.3	6381.9	6917.2	7166.7	7815.5	8864.5
60°	3134.5	3344.6	3613.5	4331.8	5184.6	6257.5	7512.7	8173.9	8360.1	9413.7
62.5°	2006.0	2135.8	2383.0	3059.6	4039.8	5620.2	7695.0	9433.0	9283.1	10314.3
65°	1373.4	1456.8	1683.1	2063.2	2611.6	4183.5	7206.8	10376.9	10749.2	11741.8
67.5°	998.0	1061.3	1254.4	1587.4	1701.7	2475.7	5592.4	10333.6	12174.3	13212.5
70°	727.6	772.4	934.6	1254.4	1309.3	1377.3	3387.9	8784.1	12143.5	13603.4
72.5°	539.2	570.1	679.0	973.3	1059.8	930.0	1677.0	6384.2	10434.8	12304.1
75°	390.1	413.3	493.6	744.6	848.1	708.3	836.5	3730.9	7278.7	8655.1
77.5°	298.2	315.9	368.5	545.3	679.0	531.4	519.1	1716.4	3451.2	3468.2
80°	239.5	251.0	279.6	383.9	520.6	397.8	338.3	692.9	1090.7	923.1
82.5°	176.1	195.4	236.4	269.6	372.3	274.2	206.2	349.9	414.8	356.9
85°	100.4	113.5	142.9	193.1	237.9	167.6	118.2	155.3	193.1	158.3
87.5°	35.5	46.3	50.2	75.7	103.5	69.5	45.6	44.8	63.3	47.1
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°
2134.2	0°	2134.2	2134.2	2134.2	2134.2	2134.2	2134.2	2134.2	2134.2	2134.2	2134.2
2157.4	2.5°	2149.7	2145.8	2130.4	2109.5	2087.9	2067.0	2060.1	2045.4	2035.4	2030.0
2207.6	5°	2192.9	2180.6	2144.3	2097.9	2049.3	1996.7	1959.7	1925.7	1901.0	1877.8
2276.4	7.5°	2254.7	2233.1	2170.5	2089.4	2002.9	1915.6	1850.8	1801.3	1768.1	1746.5
2356.7	10°	2326.6	2293.4	2197.6	2076.3	1942.7	1817.5	1741.1	1698.6	1677.7	1666.1
2448.6	12.5°	2409.2	2362.1	2225.4	2046.2	1850.8	1707.9	1655.3	1643.0	1643.7	1644.5
2564.5	15°	2511.2	2445.5	2247.8	1980.5	1731.0	1623.7	1614.4	1634.5	1655.3	1665.4
2695.8	17.5°	2626.3	2533.6	2251.6	1872.4	1613.6	1569.6	1598.9	1642.2	1673.9	1687.8
2842.6	20°	2749.9	2623.2	2223.8	1719.4	1517.1	1525.6	1578.1	1633.7	1668.5	1686.2
3010.2	22.5°	2891.2	2719.0	2157.4	1558.8	1438.3	1477.7	1539.5	1593.5	1629.8	1647.6
3207.2	25°	3052.7	2826.3	2053.1	1423.6	1370.3	1423.6	1485.4	1530.2	1559.5	1575.8
3427.3	27.5°	3231.9	2938.3	1914.1	1316.2	1310.8	1368.0	1419.0	1453.7	1469.2	1481.5
3661.3	30°	3411.8	3040.3	1745.7	1235.1	1259.1	1313.1	1349.4	1364.9	1369.5	1371.8
3922.4	32.5°	3606.5	3128.4	1568.8	1167.9	1209.6	1259.8	1281.5	1288.4	1266.8	1252.1
4239.1	35°	3842.1	3222.6	1395.8	1114.6	1161.0	1204.2	1211.2	1205.0	1179.5	1149.4
4636.2	37.5°	4133.3	3340.0	1257.5	1076.8	1115.4	1144.0	1135.5	1133.9	1136.3	1100.7
5113.5	40°	4490.2	3493.0	1156.3	1047.4	1078.3	1084.5	1060.6	1073.7	1085.3	1031.2
5637.2	42.5°	4886.4	3677.6	1092.2	1027.3	1047.4	1032.7	995.7	1010.3	1008.8	937.7
6163.3	45°	5290.4	3878.4	1069.8	1012.7	1018.8	989.5	948.6	952.4	920.0	855.9
6667.7	47.5°	5692.1	4093.9	1083.7	1000.3	983.3	950.1	918.4	901.4	853.5	805.6
7151.2	50°	6086.0	4320.2	1134.7	975.6	934.6	915.3	892.2	862.0	811.1	770.1
7608.5	52.5°	6451.4	4548.1	1191.9	934.6	873.6	885.2	870.5	835.8	785.6	743.9
8041.0	55°	6797.4	4776.0	1214.3	878.3	816.5	858.9	850.5	786.3	726.1	692.1
8493.7	57.5°	7174.4	5050.2	1189.6	806.4	770.1	828.8	796.4	725.3	690.6	665.1
9083.1	60°	7696.5	5480.4	1136.3	717.6	726.1	784.0	728.4	699.1	661.2	632.6
9966.7	62.5°	8564.0	6283.0	1050.5	629.5	674.3	717.6	696.0	666.6	628.0	600.2
11477.6	65°	9846.2	7398.4	889.1	560.8	616.4	652.7	661.2	631.9	591.7	562.3
12801.6	67.5°	10927.6	8098.2	672.8	503.6	556.9	600.2	624.1	595.5	553.1	524.5
13111.3	70°	10868.2	7589.9	513.7	447.2	504.4	548.4	579.3	556.9	511.4	484.3
11909.4	72.5°	9653.1	6349.4	415.6	390.1	451.1	494.4	531.4	514.4	468.1	441.8
8724.7	75°	7091.7	4507.2	332.1	332.1	384.7	438.0	478.9	468.1	425.6	407.1
3662.9	77.5°	2989.3	1890.9	260.3	275.8	319.8	376.2	427.2	431.0	393.9	417.1
968.6	80°	794.8	521.4	198.5	217.1	251.0	310.5	371.5	370.0	329.8	308.2
360.0	82.5°	302.8	205.5	141.4	152.9	181.5	237.9	294.3	303.6	263.4	227.9
141.4	85°	116.6	88.1	87.3	91.9	105.8	157.6	222.5	230.2	198.5	168.4
39.4	87.5°	30.1	26.3	32.4	30.9	48.7	84.2	127.5	132.1	121.3	70.3
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>
2134.2
2036.1
1887.1
1751.1
1669.2
1646.1
1664.6
1690.9
1690.9
1652.2
1580.4
1486.2
1377.3
1256.8
1150.9
1103.0
1032.7
937.0
858.2
805.6
767.0
744.6
689.0
662.7
631.1
600.2
563.9
525.3
486.6
441.8
401.7
378.5
286.6
227.9
173.8
100.4
0.0

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