

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: P938962

Luminaire Tested: **GALN-SB1B-830-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938962  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-830-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

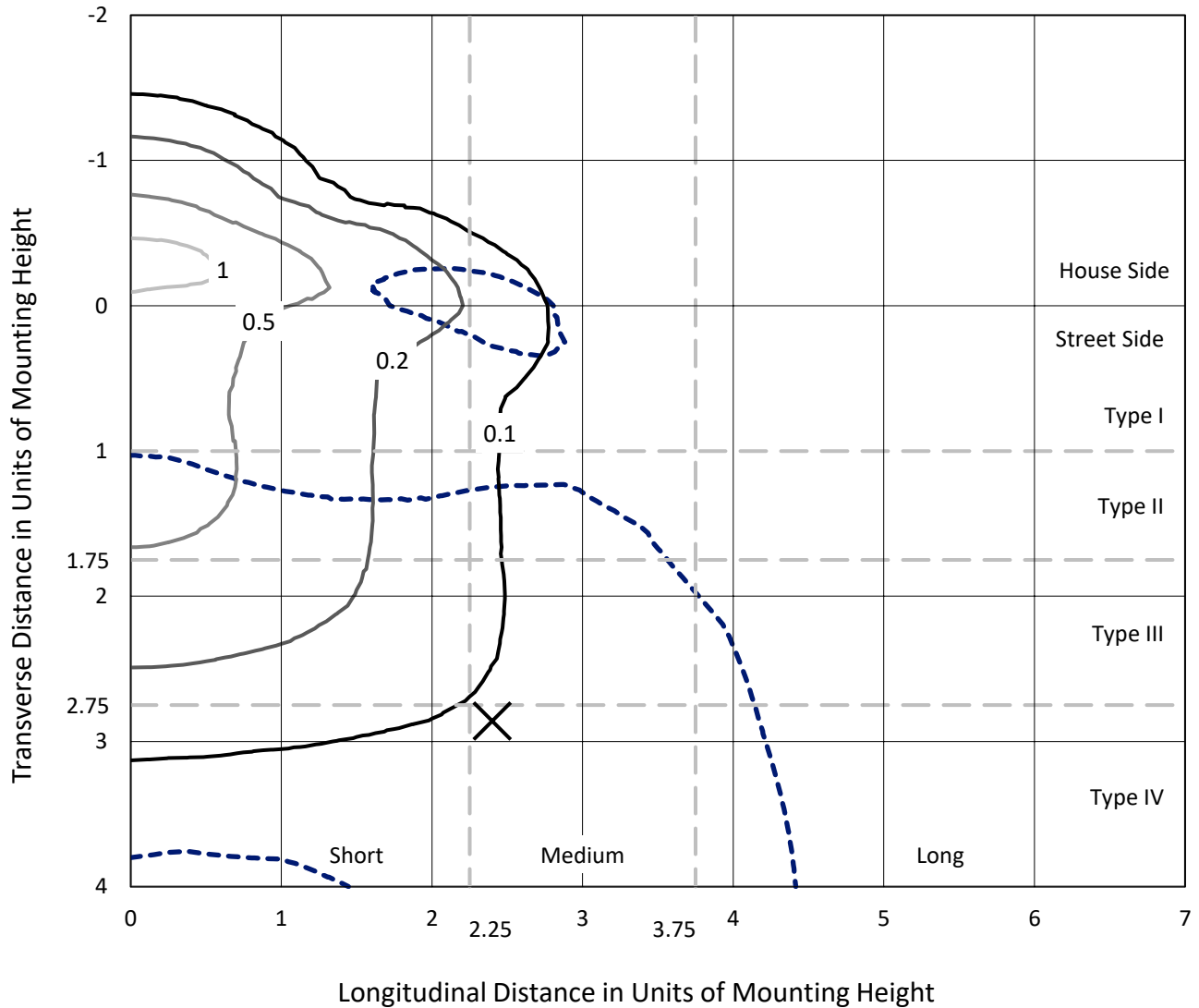
Lumens per Lamp: N/A  
Luminaire Lumens: 5017 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

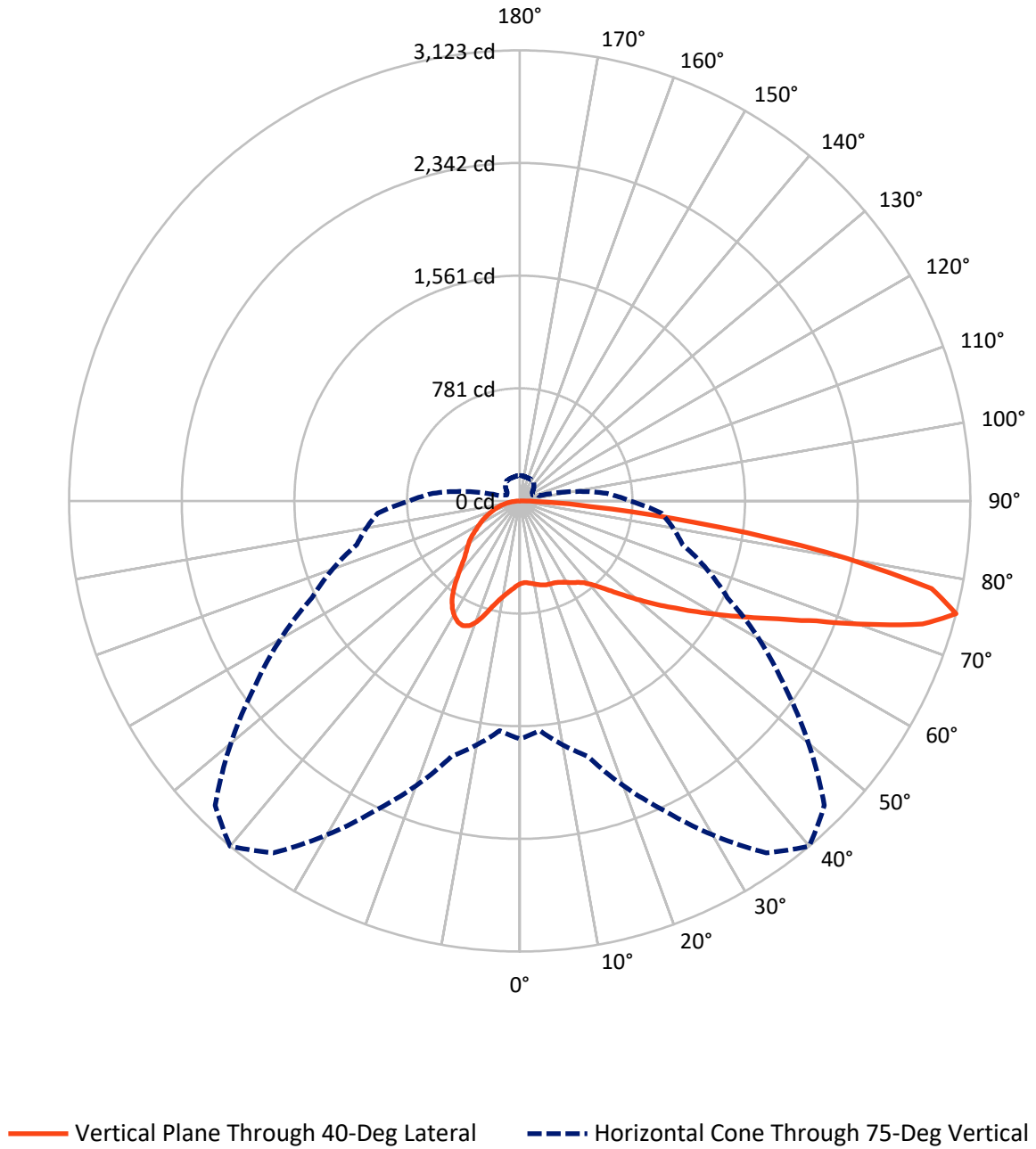
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1554.4	0.0	1554.4
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	3462.6	0.0	3462.6
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	5017.0	0.0	5017.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.3	1.1
10°-20°	192.3	3.8
20°-30°	351.1	7.0
30°-40°	497.9	9.9
40°-50°	672.3	13.4
50°-60°	904.5	18.0
60°-70°	1148.0	22.9
70°-80°	1041.9	20.8
80°-90°	151.9	3.0
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°	5017.0	100.0
0°-180°	5017.0	100.0

**Coefficient of Utilization**



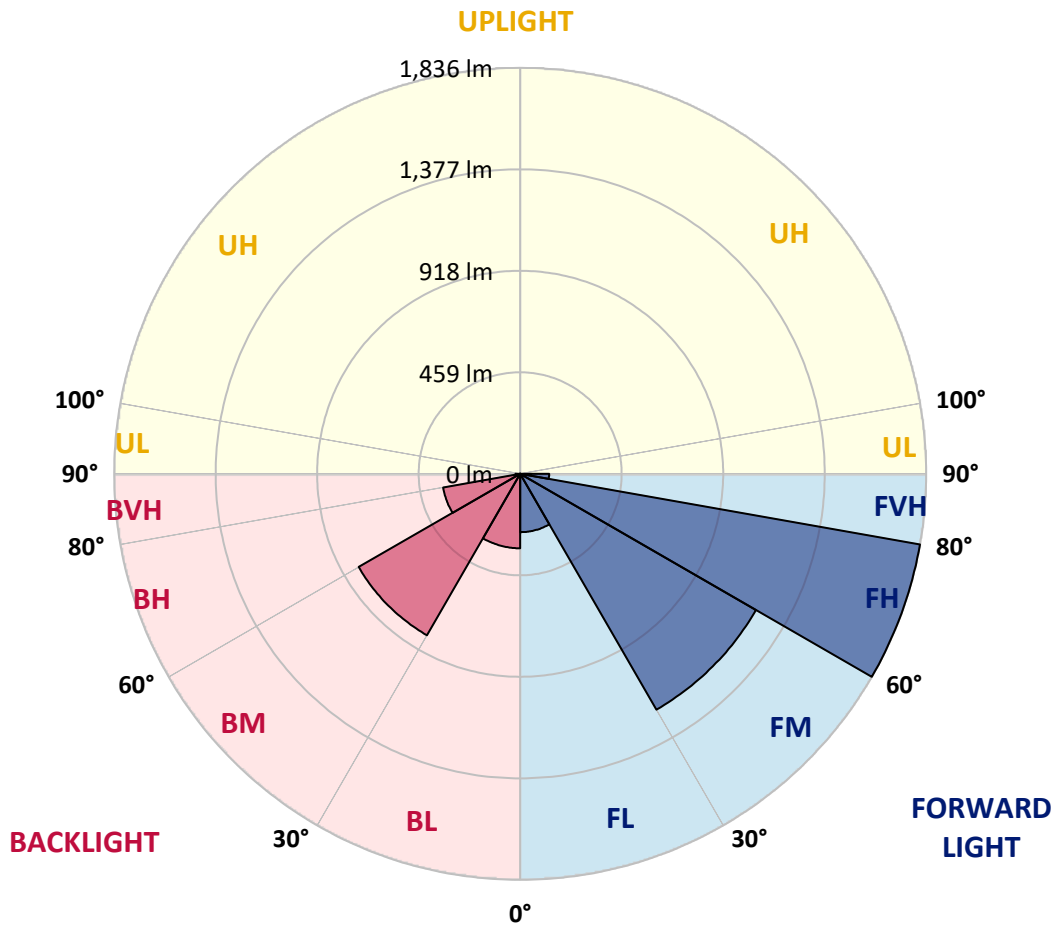
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	263.9	5.3			
FM (30°-60°)	1231.6	24.5			
FH (60°-80°)	1836.1	36.6			G2/5000
FVH (80°-90°)	131.0	2.6			G2/225
BL (0°-30°)	336.7	6.7	B1/500		
BM (30°-60°)	843.1	16.8	B1/1000		
BH (60°-80°)	353.7	7.0	B1/500		G1/500
BVH (80°-90°)	20.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7
2.5°	564.9	568.1	567.3	566.2	566.2	566.5	566.2	568.1	570.0	571.8
5°	570.8	574.0	572.4	571.0	570.0	569.7	568.9	568.6	569.7	572.1
7.5°	582.2	585.4	583.0	580.6	578.5	577.4	576.4	574.8	574.0	575.3
10°	595.0	598.2	595.3	591.0	587.5	586.2	585.1	583.5	582.5	583.3
12.5°	607.8	611.0	607.0	601.1	596.6	595.8	594.5	593.9	593.7	593.4
15°	619.7	622.4	617.3	610.4	605.6	604.3	603.0	603.8	605.1	606.7
17.5°	629.0	631.7	624.3	615.2	610.7	610.2	609.4	612.0	615.7	619.7
20°	637.6	640.2	630.6	618.4	613.1	613.1	613.3	618.9	624.3	630.1
22.5°	649.5	651.7	640.0	623.2	615.5	616.0	618.1	623.7	630.4	638.4
25°	667.4	669.0	654.6	632.2	623.5	625.1	626.9	629.6	636.0	645.3
27.5°	696.1	697.4	678.5	648.2	634.9	637.6	640.2	638.4	641.3	649.3
30°	736.6	737.3	713.4	673.2	654.3	655.7	656.2	648.5	642.9	649.3
32.5°	784.4	784.2	755.7	703.6	676.4	675.1	670.6	655.4	642.4	647.9
35°	858.7	855.8	819.0	746.1	701.4	693.2	682.5	663.1	645.0	646.6
37.5°	981.6	972.6	921.8	815.8	738.7	717.7	702.0	675.6	650.9	646.1
40°	1120.3	1108.8	1052.9	911.4	794.6	760.8	735.5	693.4	660.4	648.5
42.5°	1284.7	1268.5	1208.3	1023.9	865.3	816.4	778.3	716.1	674.6	656.2
45°	1486.7	1465.1	1380.0	1150.9	954.5	889.3	838.5	750.4	696.1	671.1
47.5°	1690.8	1696.1	1575.0	1296.1	1061.5	979.2	913.8	802.0	727.5	695.0
50°	1907.6	1911.4	1769.0	1457.1	1182.8	1080.9	998.4	859.8	771.1	729.1
52.5°	2076.9	2077.4	1945.2	1625.6	1309.2	1192.6	1089.7	925.7	821.7	774.3
55°	2182.8	2181.4	2068.6	1785.0	1454.5	1310.0	1190.8	1000.8	883.4	827.6
57.5°	2259.7	2255.7	2153.8	1922.0	1609.3	1448.6	1305.2	1085.9	956.3	890.9
60°	2288.9	2286.6	2211.5	2040.4	1772.2	1601.9	1437.2	1181.2	1039.1	965.7
62.5°	2300.1	2304.6	2268.2	2155.1	1946.5	1771.7	1582.2	1295.1	1132.2	1050.3
65°	2339.5	2347.8	2340.3	2305.2	2143.4	1970.4	1774.6	1430.5	1233.9	1141.0
67.5°	2417.5	2425.7	2428.9	2484.8	2383.9	2218.2	2014.6	1599.2	1352.8	1235.2
70°	2415.6	2413.2	2469.6	2627.7	2685.2	2561.2	2338.2	1806.8	1494.7	1313.4
72.5°	2198.7	2179.6	2312.9	2626.1	2935.8	2919.3	2733.3	2074.5	1617.1	1323.0
75°	1649.5	1598.4	1833.9	2366.6	2977.6	3122.6	2984.5	2240.5	1588.1	1169.0
77.5°	705.4	654.1	931.6	1752.0	2664.9	2919.1	2754.1	1954.7	1267.7	773.0
80°	184.7	184.4	281.5	794.3	1812.4	2155.6	1891.1	1262.4	724.3	276.2
82.5°	76.4	74.5	103.5	308.9	885.6	1209.7	987.2	563.1	261.6	74.8
85°	28.5	28.2	50.3	106.7	312.4	498.9	361.1	144.0	65.2	36.5
87.5°	8.0	7.7	10.9	37.0	76.1	115.5	61.7	23.7	18.4	14.4
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°
573.7	0°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7
574.8	2.5°	575.6	576.9	579.3	581.2	583.5	586.2	589.9	592.3	594.7	596.3
576.1	5°	578.0	580.9	587.0	593.1	600.3	607.0	614.7	620.3	624.8	626.1
580.9	7.5°	583.3	588.1	598.4	608.8	620.3	631.2	642.4	651.9	659.6	662.6
589.4	10°	592.6	599.0	613.6	628.3	643.4	660.2	674.6	688.4	699.3	703.8
599.5	12.5°	604.3	612.3	631.4	651.7	672.7	695.8	714.5	731.5	745.1	751.2
613.6	15°	619.5	629.8	654.3	681.5	712.3	744.5	768.2	787.1	802.3	809.7
628.3	17.5°	636.0	649.8	680.7	721.6	765.8	808.1	835.8	849.6	865.3	872.5
641.8	20°	651.9	669.0	713.1	772.7	831.5	876.5	898.9	902.6	903.7	904.5
654.6	22.5°	668.4	691.3	753.8	837.1	900.2	931.3	934.5	918.6	896.2	885.8
667.1	25°	686.5	716.9	807.1	908.2	959.3	963.0	938.5	899.7	857.4	837.9
677.2	27.5°	704.1	746.4	870.9	976.0	1001.8	969.1	916.4	861.3	810.3	789.8
684.4	30°	721.6	780.2	941.4	1035.4	1021.3	954.0	881.6	820.1	768.7	747.2
690.8	32.5°	739.5	819.6	1022.6	1078.2	1017.8	921.8	838.2	773.8	728.6	705.9
696.4	35°	759.7	868.0	1099.5	1101.6	994.7	874.4	781.0	718.5	679.1	661.0
703.0	37.5°	786.0	929.5	1167.4	1107.5	954.2	804.9	709.9	653.0	620.5	612.3
712.9	40°	818.8	1003.4	1219.2	1098.2	894.3	720.6	632.2	586.7	568.4	570.2
726.2	42.5°	861.3	1086.2	1255.7	1074.2	811.1	633.6	564.1	543.9	552.7	560.1
746.1	45°	916.7	1172.1	1278.3	1033.5	716.9	559.9	523.9	528.7	535.4	536.2
778.3	47.5°	987.5	1259.2	1293.2	972.0	620.8	508.0	498.4	499.5	498.1	492.5
826.5	50°	1075.8	1343.8	1306.5	890.6	539.1	475.5	462.7	459.0	440.7	422.6
890.6	52.5°	1176.4	1421.5	1312.1	789.5	475.5	448.4	427.6	404.2	369.9	364.3
971.2	55°	1288.2	1493.3	1297.7	665.2	422.0	413.5	382.1	353.9	350.2	345.4
1077.4	57.5°	1421.7	1570.8	1268.5	526.6	367.2	372.8	342.2	345.4	338.7	331.3
1213.9	60°	1567.8	1650.9	1217.1	400.2	310.5	322.0	331.8	331.6	329.7	323.6
1357.9	62.5°	1699.3	1703.5	1116.0	306.5	260.8	282.6	309.5	309.2	307.6	304.1
1508.2	65°	1777.5	1695.6	947.3	241.3	219.8	250.1	279.1	281.3	281.5	281.3
1621.3	67.5°	1763.7	1602.2	715.8	192.1	186.0	217.1	249.1	252.0	254.1	254.7
1635.7	70°	1607.2	1397.0	466.7	153.3	155.9	188.1	220.6	223.5	225.4	227.5
1419.4	72.5°	1252.8	1027.1	267.2	124.0	129.6	163.1	192.4	195.8	196.9	200.9
987.7	75°	763.4	604.0	144.2	97.7	106.4	139.4	164.4	168.4	170.3	175.1
485.1	77.5°	363.0	261.6	82.2	76.1	85.7	113.9	138.9	143.4	138.4	141.0
133.8	80°	122.7	97.1	51.9	58.0	65.5	88.9	111.2	115.8	105.1	104.6
44.4	82.5°	42.8	39.4	33.0	38.6	42.3	63.6	84.1	89.9	78.2	78.0
20.0	85°	16.8	16.0	18.4	21.0	25.3	39.1	55.3	58.3	48.2	38.8
5.9	87.5°	3.5	3.7	4.5	4.8	7.7	13.6	20.0	24.5	19.4	16.5
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>
573.7
595.3
626.7
662.8
704.1
751.2
809.2
872.3
906.6
888.8
840.9
792.2
749.6
708.9
665.0
618.1
576.6
567.0
541.5
496.8
425.0
366.1
346.2
330.0
321.4
302.8
281.3
255.2
228.6
202.5
175.6
138.9
103.5
74.2
38.3
15.2
0.0

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