

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: P938945

Luminaire Tested: **GALN-SB1B-760-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938945  
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-SB1B-760-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5905 lumens  
Efficiency: N/A  
Efficacy: 148.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

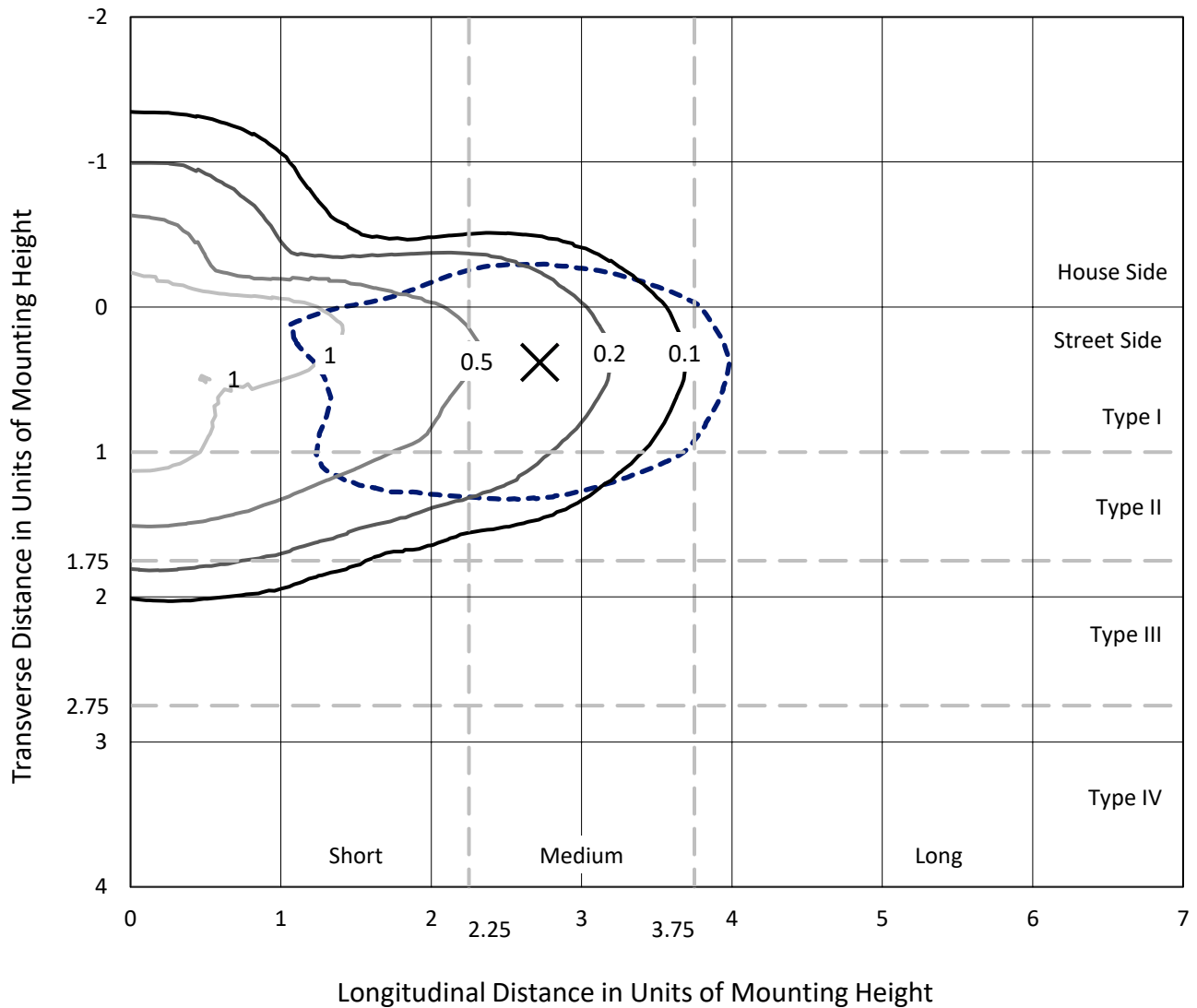
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

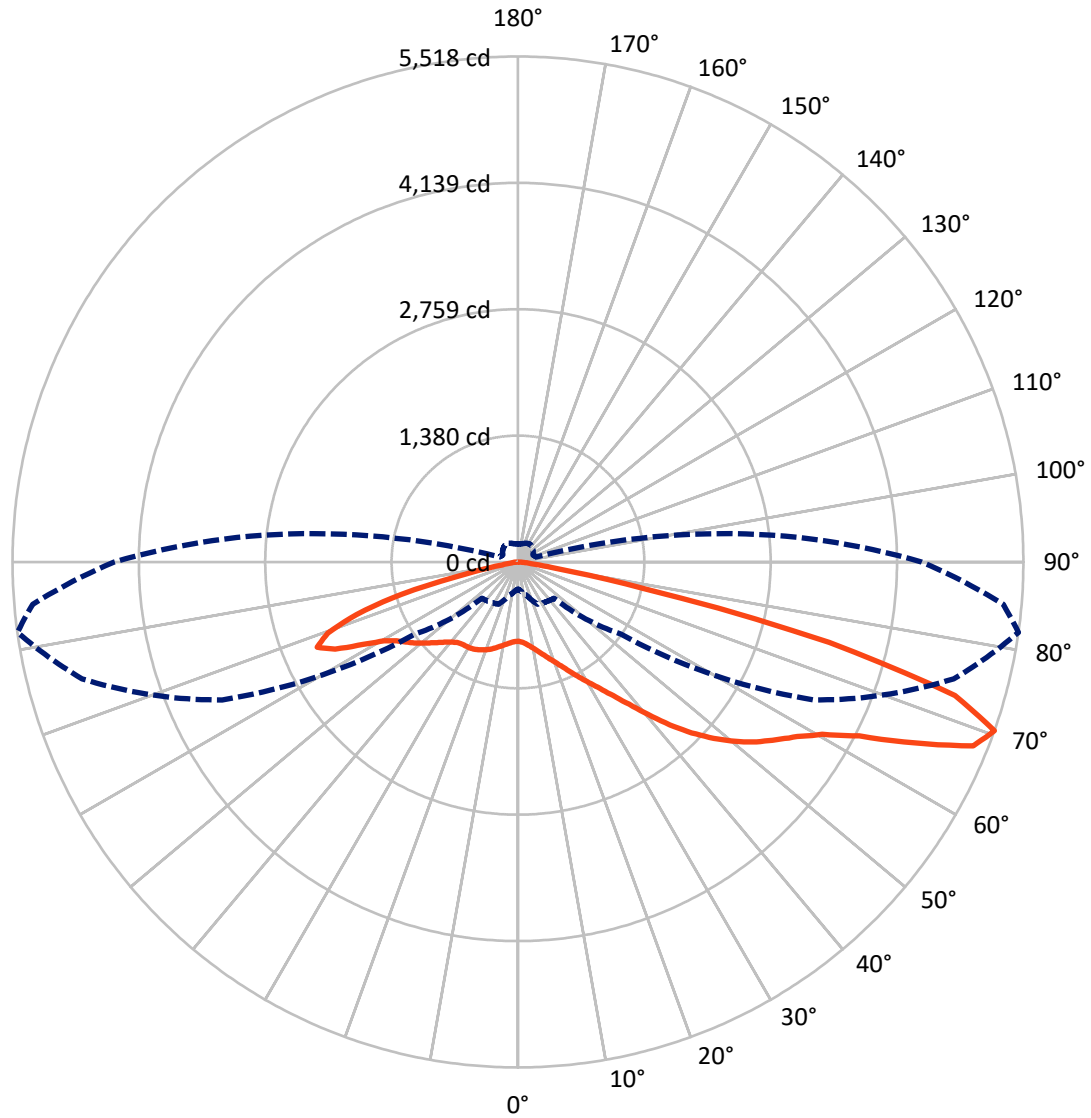
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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
<b>House Side</b>	Lumens	1455.7	0.0	1455.7
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	4449.3	0.0	4449.3
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	5905.0	0.0	5905.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.7	1.4
10°-20°	234.8	4.0
20°-30°	392.9	6.7
30°-40°	613.8	10.4
40°-50°	977.5	16.6
50°-60°	1360.3	23.0
60°-70°	1423.0	24.1
70°-80°	743.7	12.6
80°-90°	77.2	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°	5905.0	100.0
0°-180°	5905.0	100.0

**Coefficient of Utilization**



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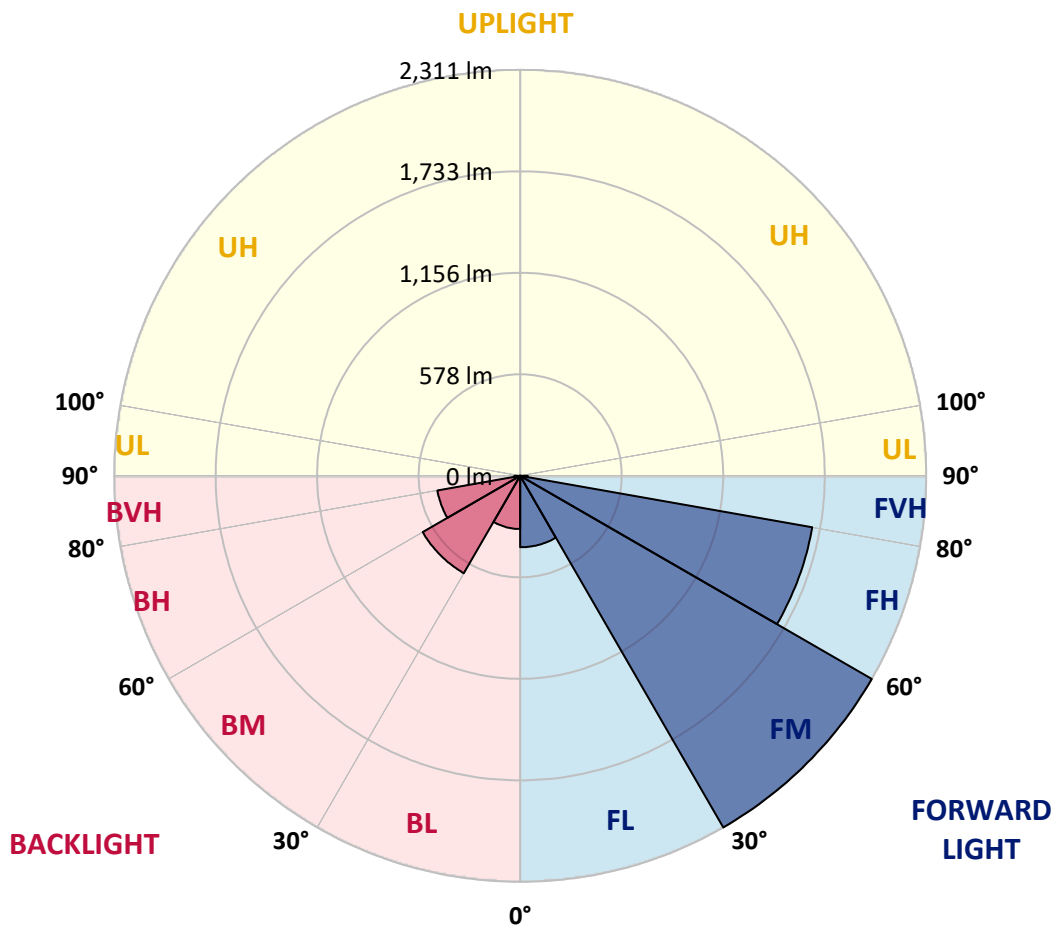
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.6	6.9			
FM (30°-60°)	2311.2	39.1			
FH (60°-80°)	1688.3	28.6			G1/1800
FVH (80°-90°)	43.2	0.7			G1/100
BL (0°-30°)	302.8	5.1	B1/500		
BM (30°-60°)	640.5	10.8	B1/1000		
BH (60°-80°)	478.4	8.1	B1/500		G1/500
BVH (80°-90°)	34.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7
2.5°	886.4	891.4	889.9	888.3	888.3	886.1	885.8	882.7	880.2	876.1
5°	897.7	903.0	902.4	903.7	907.7	908.7	909.6	907.7	902.7	897.7
7.5°	887.7	893.6	895.5	903.0	915.6	926.8	935.3	938.8	934.1	926.8
10°	853.8	860.4	867.0	884.9	907.1	933.7	956.3	969.8	968.8	961.9
12.5°	785.2	792.1	806.2	841.0	881.7	928.7	970.7	998.9	1008.6	1003.6
15°	730.4	736.3	747.0	782.7	835.7	907.1	976.0	1030.9	1055.6	1052.8
17.5°	728.8	731.3	737.9	754.8	795.6	873.3	970.4	1062.2	1109.5	1109.2
20°	756.4	757.3	761.1	764.5	787.7	847.6	956.0	1088.2	1170.0	1170.0
22.5°	794.6	794.0	797.8	794.6	805.9	845.4	946.9	1111.1	1237.4	1242.4
25°	852.0	848.8	847.9	840.7	842.9	865.7	956.9	1137.1	1317.3	1327.6
27.5°	928.4	923.4	920.0	903.3	897.7	907.7	987.6	1168.4	1406.3	1424.1
30°	1028.1	1019.0	1014.0	985.1	964.8	966.3	1034.0	1210.1	1499.3	1528.1
32.5°	1164.0	1149.9	1136.5	1089.2	1051.9	1039.6	1093.9	1267.8	1600.2	1646.3
35°	1316.3	1305.0	1290.6	1217.6	1160.3	1132.1	1174.7	1348.3	1718.3	1791.3
37.5°	1463.0	1453.3	1460.1	1361.8	1287.8	1246.8	1280.6	1456.4	1864.0	1971.8
40°	1614.6	1607.1	1608.0	1514.0	1427.9	1381.8	1409.1	1592.1	2031.0	2186.5
42.5°	1779.4	1773.8	1755.0	1671.6	1574.8	1531.9	1557.0	1748.7	2210.3	2430.9
45°	1964.0	1960.5	1943.0	1847.4	1736.5	1688.3	1722.1	1921.7	2390.4	2660.8
47.5°	2123.5	2126.3	2124.1	2043.6	1928.6	1857.8	1898.2	2102.2	2558.1	2877.0
50°	2200.2	2215.0	2236.6	2211.5	2140.1	2068.0	2075.8	2276.4	2717.9	3079.8
52.5°	2160.1	2188.0	2246.9	2287.0	2314.6	2299.6	2278.6	2449.3	2868.3	3262.8
55°	2010.7	2049.8	2147.6	2244.4	2385.1	2494.5	2522.0	2641.1	3014.9	3423.8
57.5°	1738.4	1802.0	1889.7	2085.6	2322.4	2588.8	2805.9	2907.1	3170.3	3595.8
60°	1271.5	1356.7	1465.8	1757.2	2103.1	2538.3	3047.5	3315.7	3391.2	3818.6
62.5°	813.7	866.4	966.6	1241.1	1638.7	2279.8	3121.5	3826.5	3765.7	4184.0
65°	557.1	591.0	682.8	836.9	1059.4	1697.0	2923.4	4209.4	4360.4	4763.0
67.5°	404.8	430.5	508.9	643.9	690.3	1004.2	2268.6	4191.8	4938.5	5359.6
70°	295.2	313.3	379.1	508.9	531.1	558.7	1374.3	3563.3	4926.0	5518.2
72.5°	218.7	231.2	275.4	394.8	429.9	377.3	680.3	2589.7	4232.9	4991.1
75°	158.2	167.6	200.2	302.1	344.0	287.3	339.3	1513.4	2952.6	3510.9
77.5°	120.9	128.2	149.5	221.2	275.4	215.6	210.6	696.2	1400.0	1406.9
80°	97.1	101.8	113.4	155.7	211.2	161.4	137.2	281.1	442.4	374.4
82.5°	71.4	79.3	95.9	109.4	151.0	111.2	83.7	141.9	168.3	144.8
85°	40.7	46.1	58.0	78.3	96.5	68.0	47.9	63.0	78.3	64.2
87.5°	14.4	18.8	20.4	30.7	42.0	28.2	18.5	18.2	25.7	19.1
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°
865.7	0°	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7
875.1	2.5°	872.0	870.4	864.2	855.7	846.9	838.5	835.7	829.7	825.6	823.4
895.5	5°	889.6	884.5	869.8	851.0	831.3	810.0	794.9	781.1	771.1	761.7
923.4	7.5°	914.6	905.9	880.5	847.6	812.5	777.1	750.8	730.7	717.2	708.5
956.0	10°	943.8	930.3	891.4	842.2	788.0	737.3	706.3	689.0	680.6	675.9
993.3	12.5°	977.3	958.2	902.7	830.0	750.8	692.8	671.5	666.5	666.8	667.1
1040.3	15°	1018.7	992.0	911.8	803.4	702.2	658.6	654.9	663.0	671.5	675.6
1093.5	17.5°	1065.3	1027.7	913.4	759.5	654.6	636.7	648.6	666.2	679.0	684.6
1153.1	20°	1115.5	1064.1	902.1	697.5	615.4	618.8	640.1	662.7	676.8	684.0
1221.1	22.5°	1172.8	1102.9	875.1	632.3	583.4	599.4	624.5	646.4	661.1	668.3
1301.0	25°	1238.3	1146.5	832.8	577.5	555.9	577.5	602.5	620.7	632.6	639.2
1390.3	27.5°	1311.0	1191.9	776.4	533.9	531.7	554.9	575.6	589.7	596.0	601.0
1485.2	30°	1384.0	1233.3	708.1	501.0	510.7	532.7	547.4	553.7	555.5	556.5
1591.1	32.5°	1463.0	1269.0	636.4	473.8	490.7	511.1	519.8	522.6	513.9	507.9
1719.6	35°	1558.5	1307.2	566.2	452.1	470.9	488.5	491.3	488.8	478.5	466.2
1880.6	37.5°	1676.7	1354.9	510.1	436.8	452.5	464.1	460.6	460.0	460.9	446.5
2074.3	40°	1821.4	1416.9	469.1	424.9	437.4	439.9	430.2	435.5	440.2	418.3
2286.7	42.5°	1982.2	1491.8	443.1	416.7	424.9	418.9	403.9	409.8	409.2	380.4
2500.1	45°	2146.0	1573.3	434.0	410.8	413.3	401.4	384.8	386.3	373.2	347.2
2704.7	47.5°	2309.0	1660.7	439.6	405.8	398.9	385.4	372.6	365.7	346.2	326.8
2900.9	50°	2468.8	1752.5	460.3	395.7	379.1	371.3	361.9	349.7	329.0	312.4
3086.4	52.5°	2617.0	1844.9	483.5	379.1	354.4	359.1	353.1	339.0	318.7	301.7
3261.8	55°	2757.4	1937.4	492.6	356.3	331.2	348.4	345.0	319.0	294.5	280.7
3445.4	57.5°	2910.3	2048.6	482.5	327.1	312.4	336.2	323.0	294.2	280.1	269.8
3684.5	60°	3122.1	2223.1	460.9	291.1	294.5	318.0	295.5	283.6	268.2	256.6
4043.0	62.5°	3474.0	2548.7	426.1	255.4	273.5	291.1	282.3	270.4	254.7	243.5
4655.9	65°	3994.1	3001.1	360.6	227.5	250.0	264.8	268.2	256.3	240.0	228.1
5192.9	67.5°	4432.8	3285.0	272.9	204.3	225.9	243.5	253.2	241.6	224.3	212.8
5318.6	70°	4408.6	3078.8	208.4	181.4	204.6	222.5	235.0	225.9	207.4	196.5
4831.0	72.5°	3915.8	2575.6	168.6	158.2	183.0	200.5	215.6	208.7	189.9	179.2
3539.1	75°	2876.7	1828.3	134.7	134.7	156.0	177.7	194.3	189.9	172.6	165.1
1485.8	77.5°	1212.6	767.0	105.6	111.9	129.7	152.6	173.3	174.8	159.8	169.2
392.9	80°	322.4	211.5	80.5	88.0	101.8	126.0	150.7	150.1	133.8	125.0
146.0	82.5°	122.8	83.3	57.3	62.0	73.6	96.5	119.4	123.1	106.8	92.4
57.3	85°	47.3	35.7	35.4	37.3	42.9	63.9	90.2	93.4	80.5	68.3
16.0	87.5°	12.2	10.7	13.2	12.5	19.7	34.2	51.7	53.6	49.2	28.5
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>
865.7
826.0
765.5
710.3
677.1
667.7
675.2
685.9
685.9
670.2
641.1
602.9
558.7
509.8
466.9
447.4
418.9
380.1
348.1
326.8
311.1
302.1
279.5
268.8
256.0
243.5
228.7
213.1
197.4
179.2
162.9
153.5
116.2
92.4
70.5
40.7
0.0

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