

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: P945516

Luminaire Tested: **GALN-SB1B-940-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945516  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-940-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

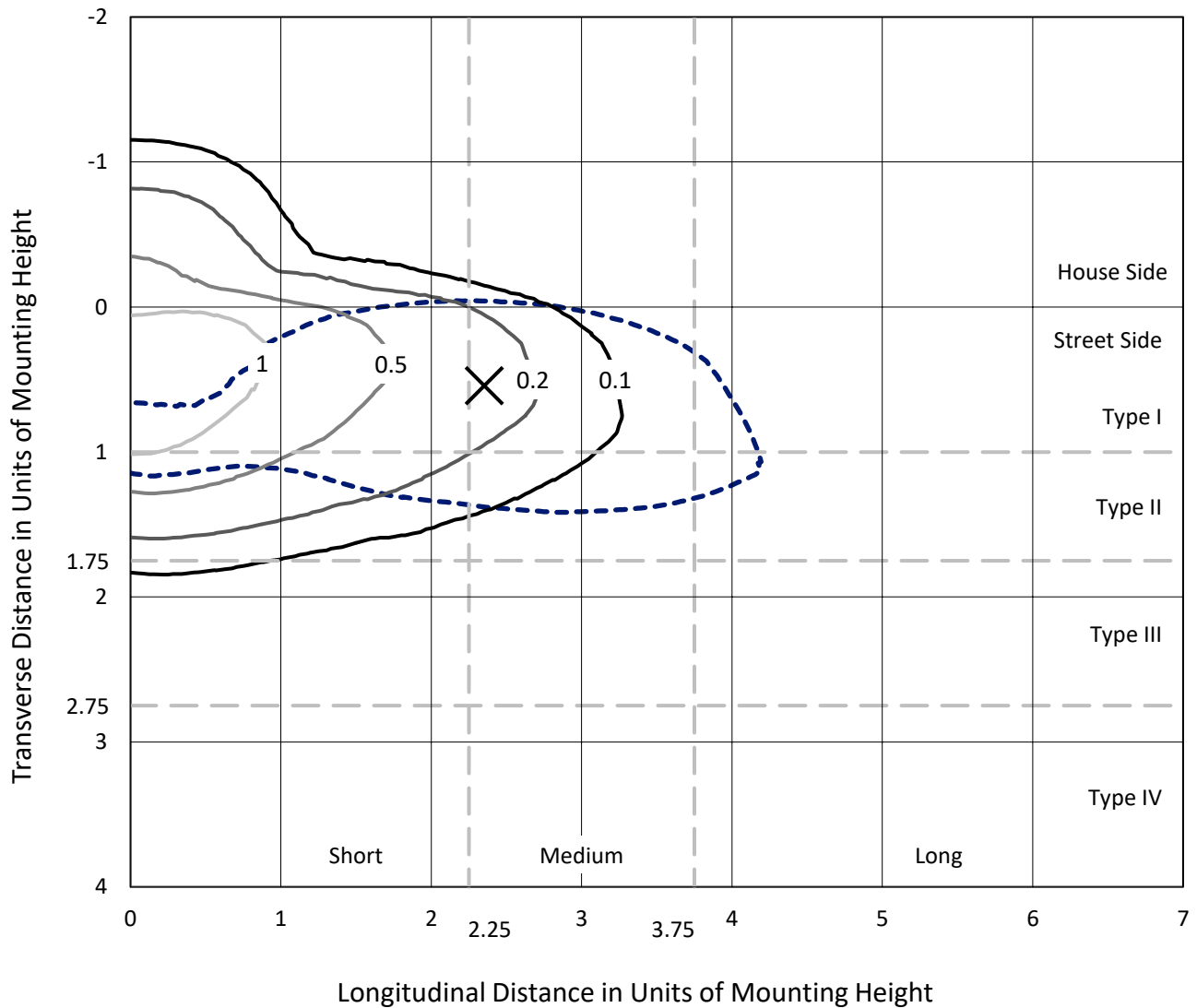
Lumens per Lamp: N/A  
Luminaire Lumens: 4158 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

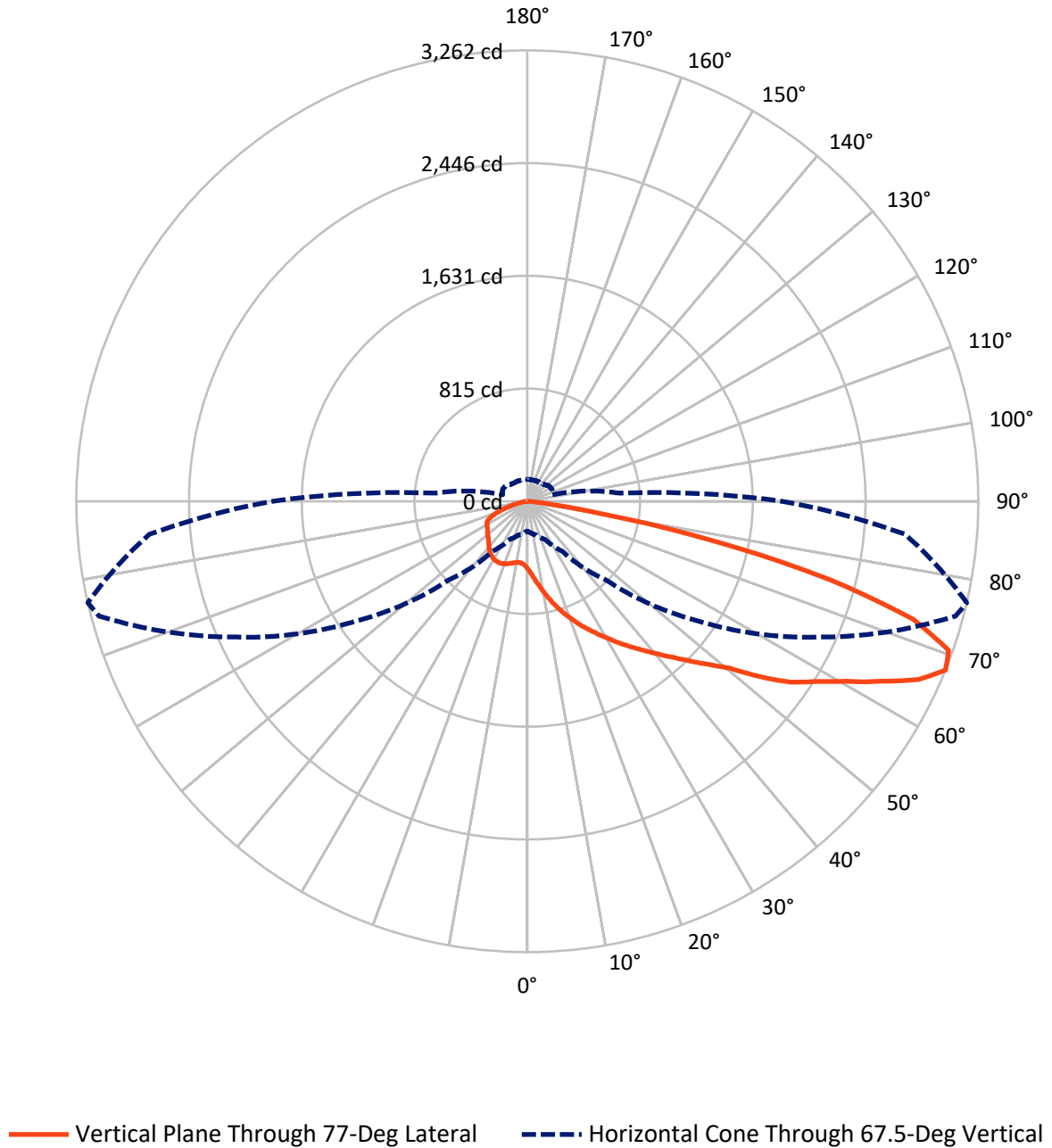
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type II - 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	786.5	0.0	786.5
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	3371.5	0.0	3371.5
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	4158.0	0.0	4158.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.3	1.3
10°-20°	187.9	4.5
20°-30°	354.7	8.5
30°-40°	571.4	13.7
40°-50°	781.6	18.8
50°-60°	881.7	21.2
60°-70°	822.9	19.8
70°-80°	451.1	10.8
80°-90°	54.4	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°	4158.0	100.0
0°-180°	4158.0	100.0

**Coefficient of Utilization**



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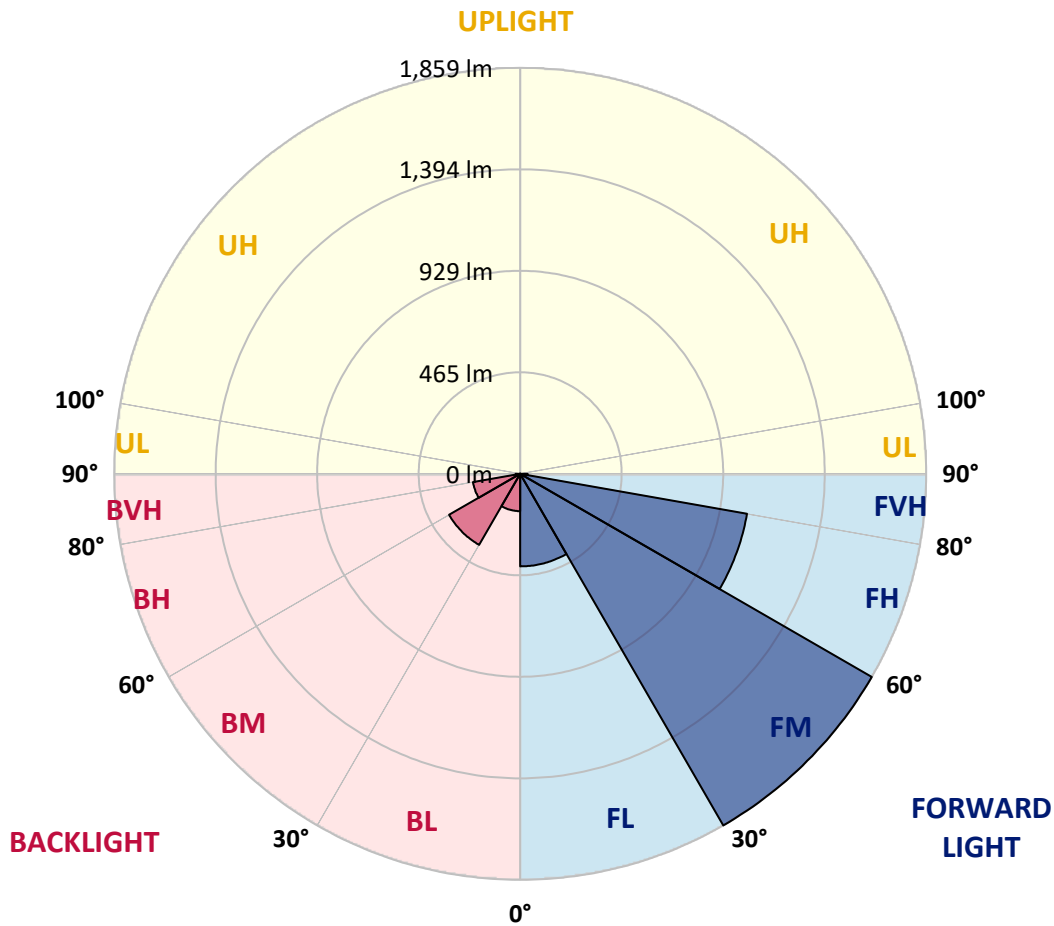
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	423.9	10.2			
FM (30°-60°)	1859.0	44.7			
FH (60°-80°)	1054.6	25.4			G1/1800
FVH (80°-90°)	34.0	0.8			G1/100
BL (0°-30°)	171.0	4.1	B1/500		
BM (30°-60°)	375.7	9.0	B1/1000		
BH (60°-80°)	219.4	5.3	B1/500		G1/500
BVH (80°-90°)	20.4	0.5			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°	77°
0°	487.9	487.9	487.9	487.9	487.9	487.9	487.9	487.9	487.9	487.9
2.5°	610.8	615.1	609.8	609.8	591.7	582.3	564.3	550.5	525.9	521.6
5°	722.0	727.4	719.9	716.7	695.4	675.9	645.6	615.8	571.8	567.3
7.5°	808.1	815.0	808.3	804.9	786.0	764.1	728.7	687.0	625.0	616.2
10°	878.3	879.4	877.2	878.5	863.7	845.7	809.4	760.9	683.4	671.4
12.5°	918.0	922.9	927.2	934.9	932.4	921.2	888.6	830.6	745.2	729.8
15°	936.7	945.2	954.9	972.7	987.1	989.9	965.0	905.5	808.1	789.4
17.5°	943.3	951.5	966.7	992.5	1023.4	1044.2	1033.0	978.3	870.3	848.9
20°	977.0	979.4	988.6	1013.1	1046.6	1081.1	1089.5	1048.3	931.9	907.7
22.5°	1049.1	1044.4	1047.0	1058.1	1082.2	1115.7	1134.8	1110.1	995.3	967.4
25°	1168.3	1154.5	1140.8	1127.9	1140.1	1159.0	1180.7	1171.9	1061.6	1026.2
27.5°	1318.7	1302.0	1271.7	1229.4	1214.6	1221.3	1230.9	1229.2	1123.0	1087.1
30°	1466.8	1447.3	1411.2	1350.0	1311.0	1293.4	1286.1	1281.1	1189.7	1151.5
32.5°	1585.1	1569.6	1534.2	1465.7	1409.1	1379.0	1354.8	1337.2	1259.5	1221.3
35°	1688.5	1674.1	1633.6	1558.9	1497.3	1465.3	1433.5	1396.0	1332.0	1293.4
37.5°	1783.0	1768.6	1713.0	1635.3	1573.3	1551.2	1522.8	1459.1	1404.8	1368.3
40°	1842.6	1839.4	1787.5	1699.5	1635.1	1624.1	1614.7	1532.3	1485.5	1451.6
42.5°	1857.9	1865.0	1823.7	1751.4	1690.0	1681.2	1703.3	1615.1	1576.1	1543.6
45°	1821.2	1841.6	1814.5	1765.4	1729.1	1724.4	1781.9	1705.7	1676.3	1646.7
47.5°	1728.2	1762.8	1751.6	1744.8	1739.6	1760.0	1851.0	1801.9	1789.8	1764.1
50°	1540.6	1606.1	1625.6	1669.0	1718.8	1787.7	1913.9	1906.8	1922.5	1896.5
52.5°	1216.3	1306.5	1419.8	1528.4	1654.8	1778.5	1983.0	2057.5	2123.6	2109.4
55°	1004.1	1044.6	1131.8	1330.9	1530.8	1739.6	2014.1	2179.2	2323.2	2310.5
57.5°	840.9	877.2	930.9	1097.2	1343.2	1651.4	2033.4	2253.4	2459.9	2458.6
60°	666.0	704.4	759.4	877.2	1124.0	1499.0	2029.1	2338.0	2634.4	2645.1
62.5°	468.5	510.8	571.8	681.7	900.2	1301.5	1941.6	2399.2	2839.8	2869.0
65°	308.0	335.9	381.8	476.7	670.7	1047.6	1774.4	2407.1	3059.6	3109.0
67.5°	215.9	226.7	253.7	305.2	442.1	803.4	1508.0	2324.9	3206.2	3261.8
70°	168.5	173.9	187.6	208.2	277.7	540.2	1155.6	2111.1	3174.9	3232.8
72.5°	145.5	150.7	155.8	158.4	186.3	333.5	782.8	1765.1	2879.7	2919.0
75°	132.0	133.3	137.6	136.7	142.1	216.4	451.8	1286.1	2272.1	2258.6
77.5°	111.0	112.7	119.8	118.7	126.2	147.9	234.6	830.0	1473.0	1381.2
80°	94.0	94.9	102.6	101.3	109.7	107.1	119.8	423.0	624.8	529.3
82.5°	32.6	40.4	78.3	80.7	83.7	64.8	69.1	172.6	190.8	146.2
85°	15.9	17.0	39.9	56.7	56.4	32.6	33.7	61.6	60.1	47.2
87.5°	2.6	3.2	4.7	22.1	17.6	8.6	11.6	12.0	12.4	10.7
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°
487.9	0°	487.9	487.9	487.9	487.9	487.9	487.9	487.9	487.9	487.9	487.9
505.2	2.5°	493.2	482.5	460.0	439.1	422.8	407.2	398.4	390.8	386.6	385.7
528.9	5°	506.5	484.4	443.4	408.9	386.3	369.6	360.8	355.2	352.4	350.7
560.6	7.5°	525.6	493.2	434.8	395.6	372.0	359.9	355.4	354.6	354.4	354.6
599.0	10°	552.0	507.6	434.0	392.4	372.6	366.0	365.7	366.0	366.8	367.0
640.9	12.5°	580.6	522.4	437.4	395.1	380.8	377.1	376.5	376.3	376.9	377.3
683.2	15°	611.7	542.0	443.2	401.2	389.8	385.9	385.3	384.0	383.8	383.6
727.6	17.5°	643.7	561.3	449.7	407.6	395.6	390.2	387.8	384.8	382.5	381.8
773.5	20°	676.1	580.4	454.2	410.8	396.0	388.5	383.8	378.6	374.5	372.2
819.9	22.5°	710.7	600.3	457.0	410.0	392.1	381.8	373.2	367.2	361.0	356.9
866.7	25°	744.3	617.7	456.7	405.4	384.6	371.5	360.6	352.9	344.3	340.0
915.0	27.5°	776.8	633.4	451.4	397.5	373.9	359.3	346.2	337.0	328.6	324.5
963.7	30°	810.2	646.5	443.0	385.9	361.2	345.1	330.8	322.8	315.3	311.4
1015.2	32.5°	843.5	658.5	431.2	371.5	346.6	331.2	317.0	309.7	305.2	305.2
1070.6	35°	878.7	666.9	415.5	354.8	331.2	316.4	305.2	300.9	300.5	297.9
1129.2	37.5°	915.8	672.2	396.4	337.6	315.9	302.0	298.6	293.4	289.1	283.5
1193.6	40°	954.9	677.6	373.5	319.8	299.8	292.1	290.6	283.7	271.5	257.8
1266.6	42.5°	1002.3	681.2	349.6	302.0	282.9	280.3	282.5	270.7	251.1	240.8
1354.6	45°	1057.3	687.3	327.7	284.4	265.5	265.5	274.5	259.1	243.0	236.5
1455.0	47.5°	1128.5	701.2	307.4	265.1	249.4	253.7	256.9	245.1	236.1	228.2
1577.3	50°	1231.6	734.7	286.3	245.5	237.2	245.8	241.2	234.4	223.9	217.4
1771.8	52.5°	1359.5	754.4	267.6	227.9	226.7	235.2	228.8	222.4	214.4	205.8
1919.3	55°	1446.6	758.1	252.0	215.1	219.6	218.7	216.4	210.6	206.3	194.9
2064.8	57.5°	1544.1	765.4	239.1	207.3	215.1	205.6	204.8	199.8	194.2	186.5
2242.3	60°	1660.6	776.8	227.9	204.3	211.2	197.0	192.7	190.8	185.2	181.4
2455.8	62.5°	1787.7	787.1	216.6	204.8	206.7	188.7	182.2	181.6	178.1	176.9
2656.3	65°	1874.4	758.9	202.4	204.3	199.6	180.1	171.9	171.7	168.9	168.5
2743.2	67.5°	1844.1	669.9	183.3	198.3	192.3	171.5	162.5	161.6	158.0	158.2
2652.4	70°	1692.6	542.8	156.9	183.5	183.3	163.8	152.6	149.8	144.9	145.7
2306.2	72.5°	1408.4	402.2	121.5	158.8	168.9	156.7	141.2	136.7	130.5	131.4
1702.5	75°	1017.1	273.4	88.4	120.8	147.0	148.3	130.1	122.3	114.8	116.1
947.6	77.5°	520.5	155.0	65.0	83.3	115.5	134.8	120.0	109.7	108.0	120.0
273.2	80°	169.8	77.7	45.1	58.4	75.8	110.3	105.2	93.4	92.9	95.7
57.3	82.5°	50.7	32.8	29.0	38.4	41.9	84.6	90.8	70.6	60.7	64.0
19.1	85°	17.4	15.9	16.5	19.1	20.0	49.6	63.5	46.8	44.2	48.7
4.3	87.5°	4.1	5.6	4.7	4.3	4.3	12.0	24.7	19.5	27.0	18.0
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>
487.9
385.7
350.5
355.2
367.2
377.5
383.3
382.5
373.0
357.2
340.0
324.3
311.2
305.4
297.3
282.7
255.8
241.0
237.6
227.9
216.8
204.1
195.1
183.9
182.4
176.9
168.3
158.2
146.6
131.1
116.5
118.3
82.2
66.1
48.1
17.4
0.0

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