

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: P946845

Luminaire Tested: **GALN-SB2B-840-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946845  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2B-840-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

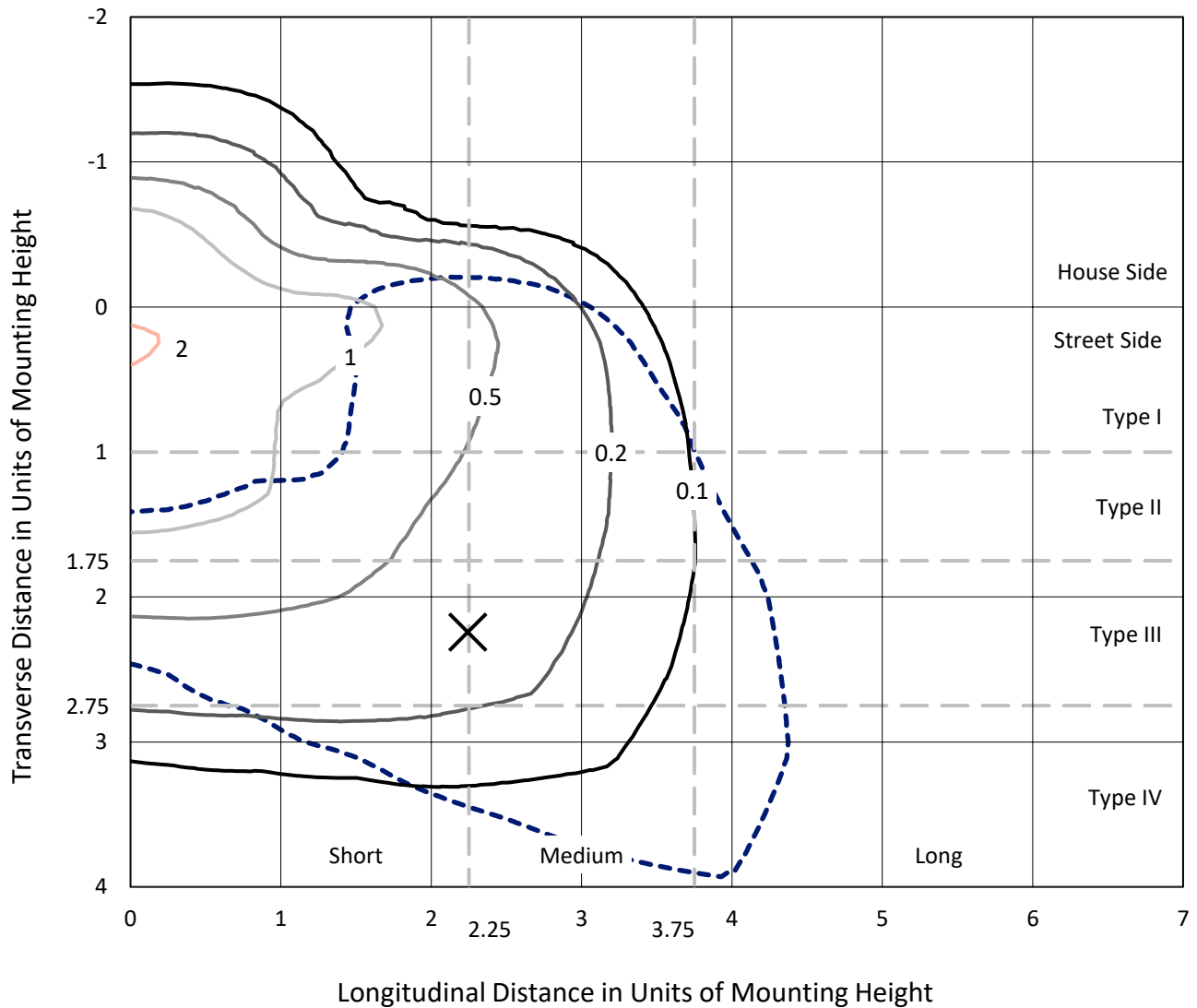
Lumens per Lamp: N/A  
Luminaire Lumens: 10750 lumens  
Efficiency: N/A  
Efficacy: 145.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

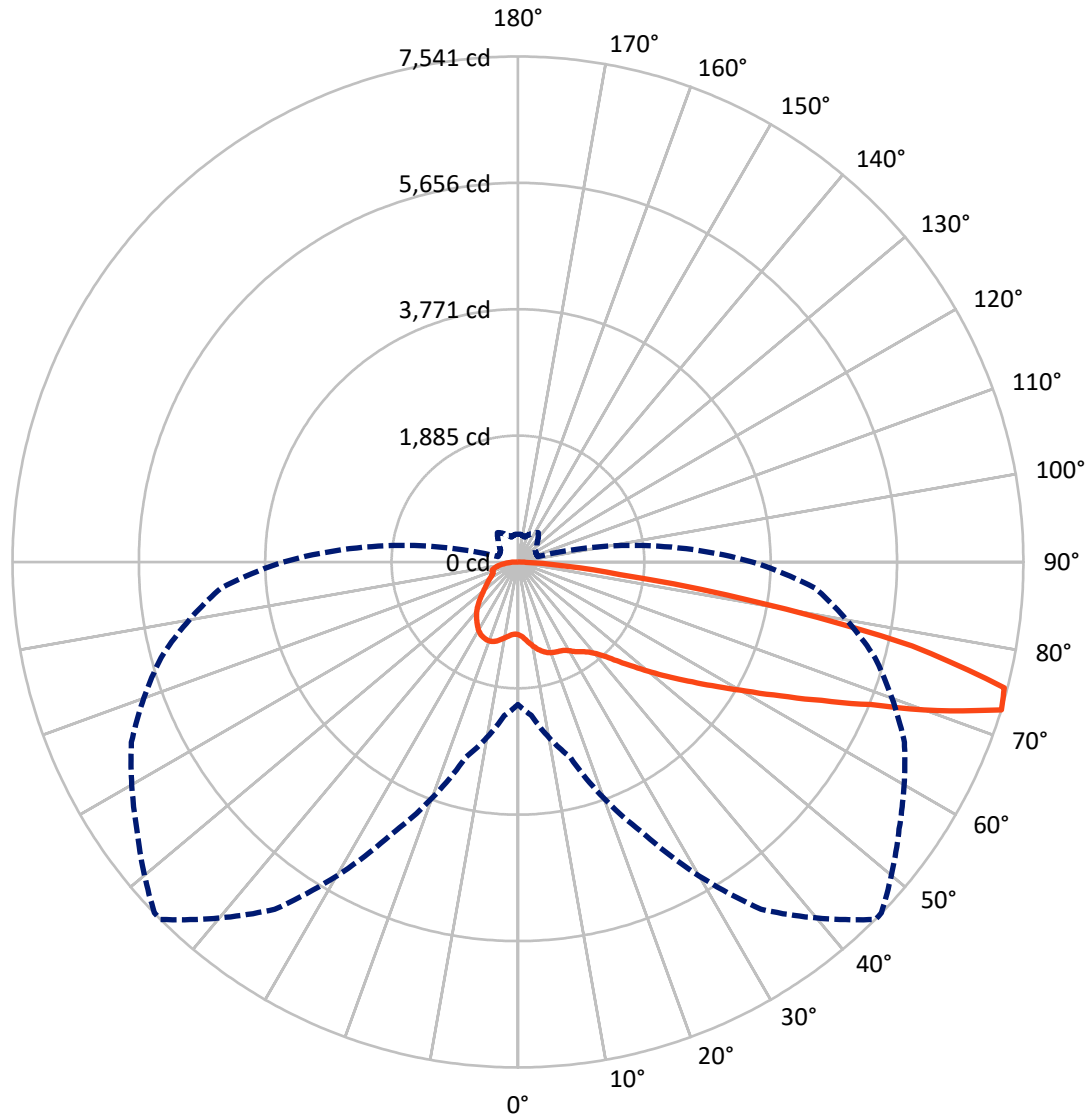
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2430.2	0.0	2430.2
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	8319.8	0.0	8319.8
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	10750.0	0.0	10750.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.4	1.0
10°-20°	368.0	3.4
20°-30°	640.2	6.0
30°-40°	917.7	8.5
40°-50°	1292.2	12.0
50°-60°	1979.3	18.4
60°-70°	2867.3	26.7
70°-80°	2289.7	21.3
80°-90°	285.2	2.7
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°	10750.0	100.0
0°-180°	10750.0	100.0



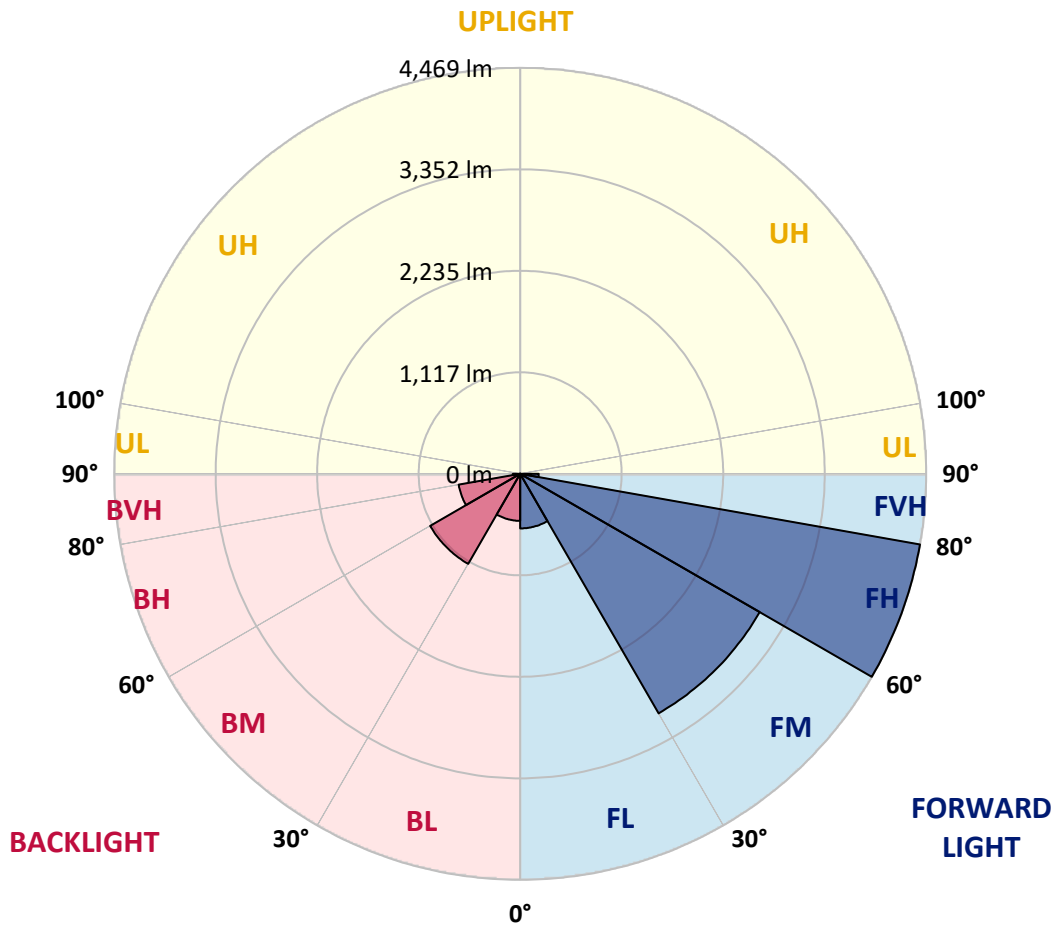
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	601.2	5.6			
FM (30°-60°)	3045.0	28.3			
FH (60°-80°)	4469.1	41.6			G2/5000
FVH (80°-90°)	204.6	1.9			G2/225
BL (0°-30°)	517.4	4.8	B2/1000		
BM (30°-60°)	1144.3	10.6	B2/2500		
BH (60°-80°)	687.9	6.4	B2/1000		G2/1000
BVH (80°-90°)	80.6	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5
2.5°	1126.9	1134.3	1127.5	1121.3	1118.4	1111.1	1110.5	1106.0	1103.2	1095.2
5°	1205.7	1215.3	1204.0	1191.5	1180.2	1162.0	1159.8	1146.8	1132.0	1115.0
7.5°	1294.6	1303.1	1290.0	1271.3	1251.5	1221.5	1220.9	1197.2	1173.9	1145.1
10°	1372.1	1383.5	1365.9	1340.4	1315.5	1281.5	1277.6	1250.4	1220.9	1183.6
12.5°	1440.7	1448.6	1431.6	1400.5	1371.6	1337.6	1332.5	1302.5	1269.6	1227.2
15°	1495.0	1505.2	1482.6	1449.2	1418.6	1385.2	1380.6	1353.5	1320.6	1275.9
17.5°	1530.7	1539.2	1516.0	1478.6	1449.2	1421.4	1418.0	1395.4	1366.5	1321.2
20°	1544.3	1553.4	1529.0	1491.1	1463.9	1442.4	1440.7	1424.2	1404.4	1363.1
22.5°	1557.9	1566.4	1534.7	1495.0	1471.2	1457.7	1457.1	1446.3	1438.4	1404.4
25°	1612.8	1615.1	1572.6	1515.4	1481.4	1469.6	1469.0	1468.4	1471.8	1445.2
27.5°	1660.4	1659.8	1623.6	1569.8	1517.1	1492.2	1491.6	1497.3	1508.1	1486.0
30°	1730.0	1723.8	1680.8	1624.7	1576.6	1538.1	1534.7	1529.6	1538.1	1520.5
32.5°	1877.9	1858.0	1788.4	1688.7	1625.8	1596.4	1591.9	1560.2	1563.6	1552.8
35°	2089.6	2063.6	1970.7	1809.9	1687.0	1645.1	1642.8	1602.6	1595.8	1586.2
37.5°	2341.7	2309.4	2201.2	1985.5	1792.3	1701.7	1698.3	1662.1	1634.3	1624.2
40°	2594.8	2554.0	2464.5	2199.5	1947.5	1796.3	1785.5	1730.6	1698.9	1681.9
42.5°	2840.6	2806.6	2730.1	2439.6	2138.9	1934.5	1910.7	1816.7	1792.9	1777.1
45°	3058.0	3027.4	2971.4	2696.2	2363.2	2122.5	2099.3	1945.8	1938.4	1938.4
47.5°	3234.7	3227.9	3168.5	2957.8	2627.6	2336.6	2296.3	2125.3	2145.1	2175.7
50°	3430.6	3412.0	3348.5	3215.5	2938.5	2581.8	2548.9	2345.6	2419.8	2503.6
52.5°	3610.7	3620.9	3550.1	3483.9	3289.6	2855.3	2797.5	2605.5	2765.8	2904.6
55°	3795.9	3796.5	3776.7	3767.6	3657.7	3157.7	3094.3	2918.1	3173.0	3345.1
57.5°	3969.8	3970.9	4000.3	4080.2	4084.7	3506.5	3434.6	3302.1	3625.5	3801.0
60°	4124.9	4132.9	4213.3	4400.2	4460.2	3906.3	3838.4	3755.7	4093.2	4269.9
62.5°	4177.0	4205.9	4384.9	4650.5	4831.1	4396.8	4329.9	4280.7	4584.8	4749.0
65°	4088.7	4154.9	4501.0	4857.2	5212.8	4979.5	4913.2	4859.4	5095.6	5250.2
67.5°	3871.8	3957.3	4494.2	5074.1	5676.0	5680.6	5618.8	5492.6	5643.2	5702.6
70°	3300.4	3428.4	4098.3	5155.0	6207.8	6639.3	6579.8	6254.8	6189.7	5902.0
72.5°	2126.5	2298.6	3017.8	4488.5	6326.1	7541.4	7538.0	6942.8	6362.4	5514.6
75°	775.8	881.2	1402.2	2817.3	5310.2	7495.6	7517.6	6825.1	5808.0	4259.7
77.5°	282.6	309.2	457.6	1082.8	3265.9	6014.1	6060.0	5456.3	4134.0	2137.8
80°	148.4	163.1	234.4	420.2	1399.3	3571.7	3643.6	3242.6	1943.0	643.9
82.5°	82.1	88.9	131.4	228.2	630.3	1527.3	1570.4	1281.0	683.5	273.0
85°	44.2	47.0	61.7	124.6	308.1	529.5	541.4	382.8	272.4	160.3
87.5°	13.0	15.9	20.4	39.6	120.6	118.9	121.8	75.9	107.6	81.0
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°
1084.5	0°	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5	1084.5
1093.0	2.5°	1089.6	1087.9	1081.6	1078.8	1075.4	1074.8	1077.7	1078.2	1078.8	1079.4
1105.4	5°	1099.8	1094.1	1088.4	1085.0	1086.2	1086.7	1092.4	1096.4	1099.2	1101.5
1128.6	7.5°	1119.6	1115.0	1105.4	1104.9	1106.6	1111.6	1119.0	1128.1	1133.2	1137.1
1158.7	10°	1149.0	1140.5	1129.2	1130.9	1134.3	1141.7	1157.0	1164.3	1172.8	1180.2
1195.5	12.5°	1179.0	1171.7	1158.7	1159.8	1165.4	1178.5	1193.2	1202.3	1207.9	1213.6
1235.1	15°	1218.1	1205.1	1190.9	1190.9	1201.1	1215.3	1222.1	1229.4	1232.8	1239.1
1277.6	17.5°	1258.3	1241.3	1222.6	1221.5	1234.0	1240.8	1244.7	1245.9	1247.0	1253.8
1318.9	20°	1298.5	1279.8	1253.2	1251.0	1253.8	1252.7	1252.1	1251.0	1252.7	1261.2
1361.4	22.5°	1338.2	1316.6	1279.8	1269.6	1261.7	1251.0	1250.4	1249.8	1251.0	1259.5
1407.3	25°	1384.6	1358.6	1309.3	1278.7	1252.1	1237.4	1239.1	1239.6	1240.8	1247.6
1454.8	27.5°	1435.0	1406.1	1336.5	1275.9	1227.7	1217.5	1214.7	1216.4	1220.4	1231.1
1502.4	30°	1485.4	1451.4	1361.4	1264.5	1197.2	1183.0	1173.9	1177.9	1190.4	1201.1
1543.7	32.5°	1531.3	1497.3	1381.2	1239.6	1158.1	1136.0	1124.1	1129.2	1141.7	1145.6
1589.6	35°	1585.1	1546.6	1389.7	1200.0	1115.6	1081.6	1065.8	1058.4	1064.6	1060.7
1643.4	37.5°	1645.1	1604.9	1388.6	1147.9	1065.8	1026.7	1004.6	976.9	963.8	950.3
1722.7	40°	1734.0	1676.2	1375.0	1085.0	1004.1	968.4	928.7	881.7	852.3	825.7
1850.7	42.5°	1855.2	1775.4	1350.1	1015.9	934.4	901.0	847.2	792.3	745.8	701.6
2044.9	45°	2035.9	1905.0	1318.9	942.3	859.1	826.2	767.9	706.2	653.5	596.9
2320.7	47.5°	2296.3	2079.5	1289.5	858.5	779.8	749.8	697.1	639.9	577.6	522.7
2719.4	50°	2654.3	2329.8	1262.3	777.0	701.6	679.0	637.1	578.8	515.9	471.7
3186.6	52.5°	3109.6	2670.1	1251.0	698.2	628.6	620.1	586.7	532.3	472.9	435.5
3731.4	55°	3632.3	3077.3	1251.0	622.9	564.6	567.4	544.2	493.8	442.3	408.9
4293.1	57.5°	4165.7	3489.5	1228.3	553.3	510.2	522.1	507.4	463.2	416.8	382.3
4883.8	60°	4657.3	3835.0	1136.6	489.9	462.1	480.8	471.2	433.2	376.6	347.7
5377.6	62.5°	5035.0	4029.8	959.9	439.4	422.5	444.0	438.9	393.6	369.2	357.3
5783.1	65°	5224.1	3998.1	733.9	394.7	389.0	422.5	411.7	410.0	390.7	377.2
5915.0	67.5°	5108.0	3725.1	532.3	361.9	369.8	402.6	444.0	450.8	415.1	388.5
5543.5	70°	4598.9	3231.3	396.4	330.7	345.4	403.2	506.3	471.7	407.2	376.0
4446.0	72.5°	3498.6	2409.6	307.5	297.9	313.7	406.0	534.0	462.1	384.5	415.7
2769.8	75°	2000.7	1322.9	246.9	257.7	274.1	379.4	519.9	437.2	367.0	381.7
1097.5	77.5°	762.8	508.5	203.9	218.0	220.3	331.3	497.2	435.5	349.4	340.9
329.0	80°	264.5	198.8	168.8	173.3	170.5	294.5	476.8	378.9	286.0	256.0
135.9	82.5°	108.2	99.1	133.6	128.0	121.2	228.8	385.1	309.8	233.9	206.7
65.7	85°	47.0	62.9	88.3	77.6	70.2	158.6	308.6	262.2	197.6	170.5
21.5	87.5°	9.6	23.8	37.4	35.1	36.2	105.9	219.2	186.3	139.9	104.8
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>
1084.5
1081.6
1102.6
1138.3
1178.5
1215.8
1241.3
1256.1
1264.5
1265.1
1256.6
1241.9
1213.0
1159.8
1073.1
958.7
827.4
697.7
590.1
516.5
468.9
432.7
405.5
376.6
343.2
353.4
372.6
384.0
370.9
412.3
381.7
310.9
247.5
204.4
169.9
82.1
0.0

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