

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: P939655

Luminaire Tested: **GALN-SB2B-835-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939655
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-SB2B-835-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10349 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

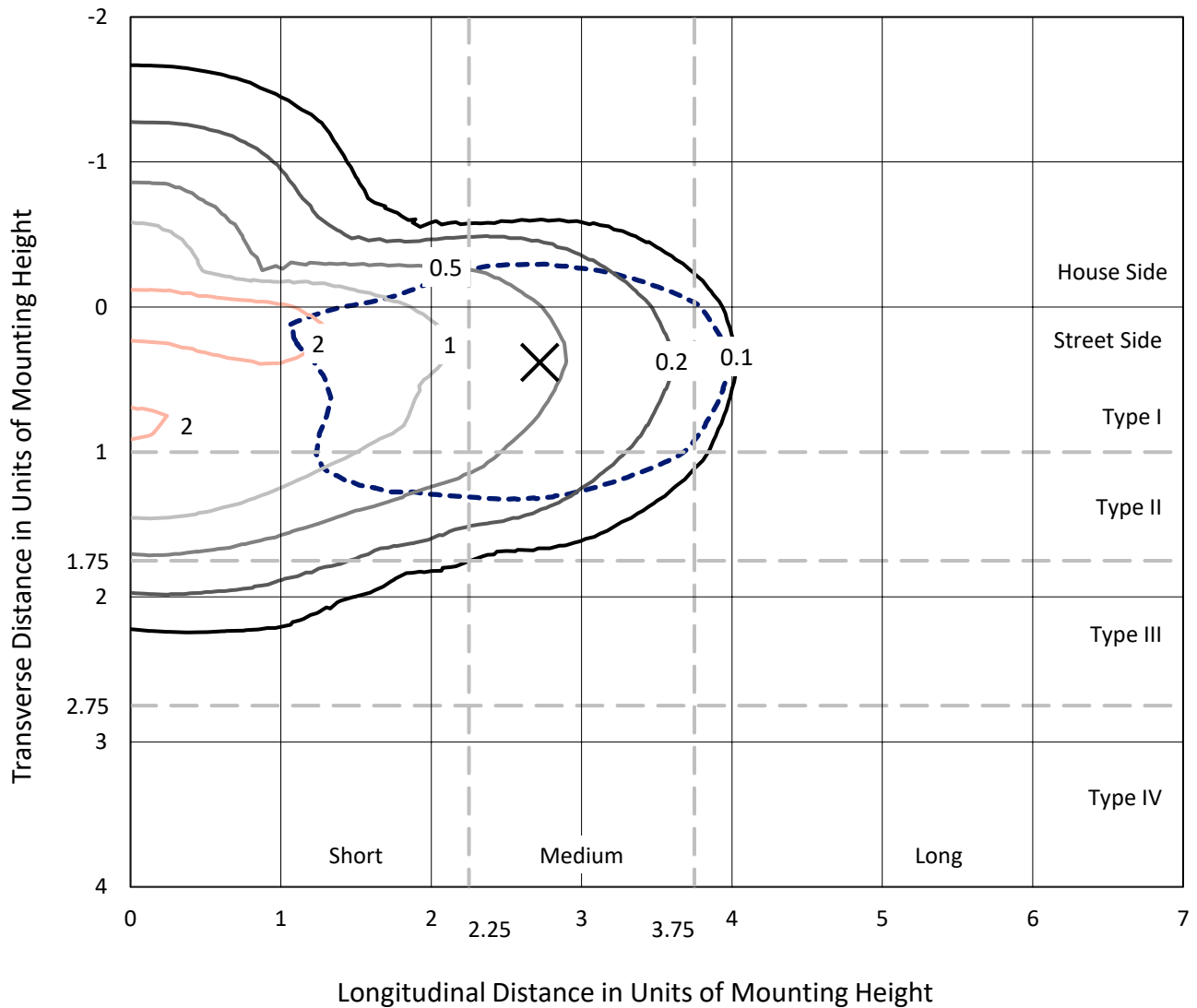
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939655
 CATALOG NUMBER: GALN-SB2B-835-U-T2

Iso-Footcandle Lines of Horizontal Illumination

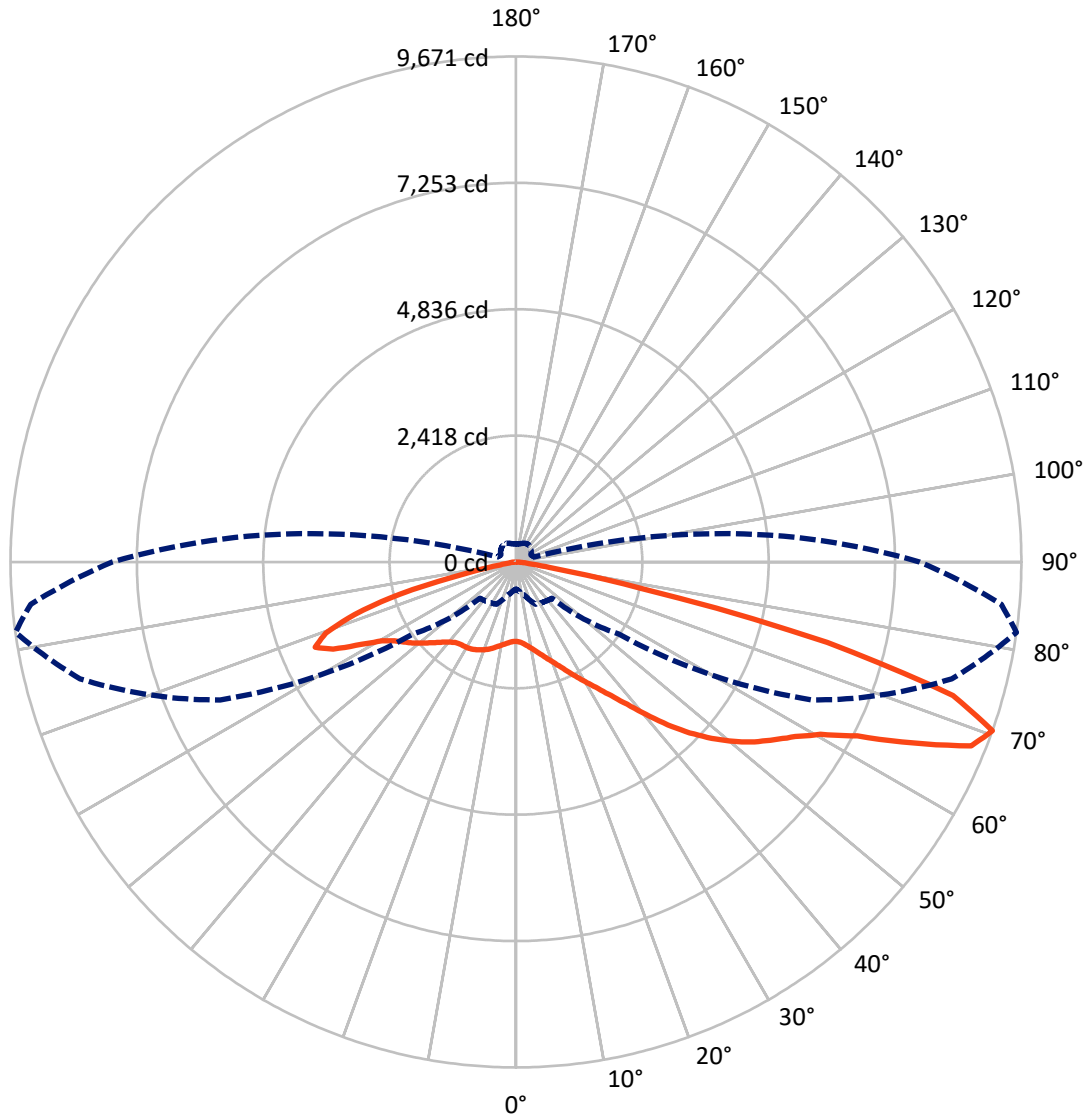
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P939655
CATALOG NUMBER: GALN-SB2B-835-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P939655

CATALOG NUMBER: GALN-SB2B-835-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2551.3	0.0	2551.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	7797.7	0.0	7797.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	10349.0	0.0	10349.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	1.4
10°-20°	411.6	4.0
20°-30°	688.6	6.7
30°-40°	1075.7	10.4
40°-50°	1713.2	16.6
50°-60°	2384.1	23.0
60°-70°	2493.9	24.1
70°-80°	1303.4	12.6
80°-90°	135.3	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°	10349.0	100.0
0°-180°	10349.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939655

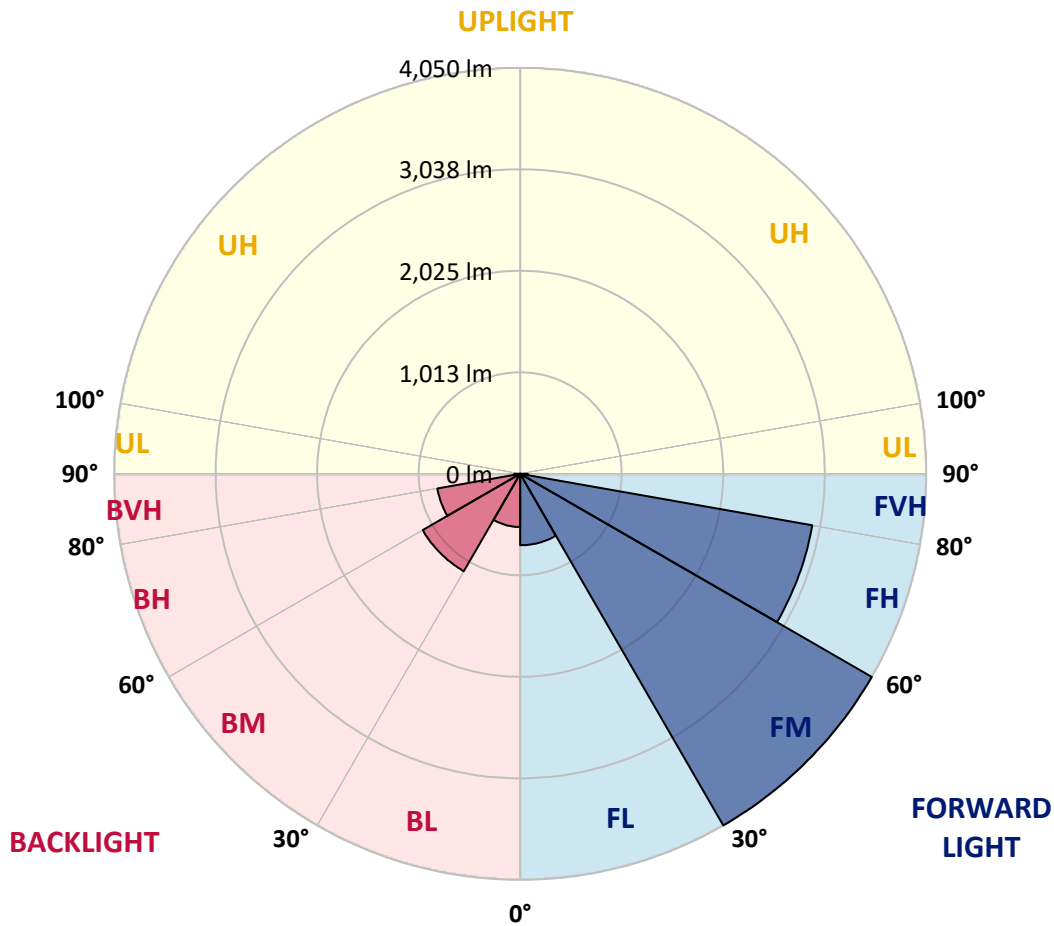
CATALOG NUMBER: GALN-SB2B-835-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	712.6	6.9			
FM (30°-60°)	4050.5	39.1			
FH (60°-80°)	2958.8	28.6			G2/5000
FVH (80°-90°)	75.8	0.7			G1/100
BL (0°-30°)	530.8	5.1	B2/1000		
BM (30°-60°)	1122.5	10.8	B2/2500		
BH (60°-80°)	838.5	8.1	B2/1000		G2/1000
BVH (80°-90°)	59.6	0.6			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 II Medium



REPORT NUMBER: P939655

CATALOG NUMBER: GALN-SB2B-835-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3
2.5°	1553.5	1562.3	1559.6	1556.8	1556.8	1553.0	1552.4	1546.9	1542.6	1535.4
5°	1573.3	1582.6	1581.5	1583.7	1590.9	1592.5	1594.2	1590.9	1582.1	1573.3
7.5°	1555.7	1566.2	1569.5	1582.6	1604.6	1624.4	1639.2	1645.2	1637.0	1624.4
10°	1496.4	1508.0	1519.5	1550.8	1589.8	1636.5	1676.0	1699.6	1698.0	1685.9
12.5°	1376.2	1388.2	1413.0	1473.9	1545.3	1627.7	1701.3	1750.7	1767.7	1758.9
15°	1280.1	1290.5	1309.2	1371.8	1464.6	1589.8	1710.6	1806.7	1850.1	1845.1
17.5°	1277.3	1281.7	1293.2	1322.9	1394.3	1530.5	1700.7	1861.6	1944.5	1944.0
20°	1325.6	1327.3	1333.9	1339.9	1380.6	1485.4	1675.4	1907.2	2050.5	2050.5
22.5°	1392.6	1391.5	1398.1	1392.6	1412.4	1481.6	1659.5	1947.3	2168.6	2177.4
25°	1493.1	1487.6	1486.0	1473.4	1477.2	1517.3	1677.1	1992.9	2308.6	2326.7
27.5°	1627.1	1618.3	1612.3	1583.2	1573.3	1590.9	1730.9	2047.8	2464.6	2495.9
30°	1801.8	1785.8	1777.0	1726.5	1690.8	1693.6	1812.2	2120.8	2627.7	2678.2
32.5°	2040.1	2015.4	1991.8	1908.8	1843.5	1822.1	1917.1	2221.8	2804.5	2885.2
35°	2307.0	2287.2	2261.9	2134.0	2033.5	1984.1	2058.8	2363.0	3011.5	3139.5
37.5°	2564.0	2546.9	2559.0	2386.6	2257.0	2185.1	2244.4	2552.4	3266.9	3455.8
40°	2829.8	2816.6	2818.2	2653.5	2502.5	2421.7	2469.5	2790.2	3559.6	3831.9
42.5°	3118.6	3108.7	3075.8	2929.7	2760.0	2684.8	2728.7	3064.8	3873.7	4260.3
45°	3442.1	3436.0	3405.3	3237.8	3043.4	2958.8	3018.1	3367.9	4189.4	4663.4
47.5°	3721.6	3726.5	3722.7	3581.5	3380.0	3255.9	3326.7	3684.2	4483.2	5042.3
50°	3856.1	3881.9	3919.8	3875.9	3750.7	3624.4	3638.1	3989.6	4763.3	5397.6
52.5°	3785.8	3834.7	3937.9	4008.2	4056.5	4030.2	3993.4	4292.7	5026.9	5718.3
55°	3523.9	3592.5	3763.9	3933.5	4180.1	4371.8	4420.1	4628.8	5283.9	6000.5
57.5°	3046.7	3158.1	3311.9	3655.1	4070.3	4537.1	4917.6	5095.0	5556.3	6302.0
60°	2228.4	2377.8	2568.9	3079.6	3685.9	4448.6	5341.0	5811.1	5943.4	6692.5
62.5°	1426.1	1518.4	1694.1	2175.2	2872.0	3995.6	5470.6	6706.2	6599.6	7332.8
65°	976.4	1035.7	1196.6	1466.8	1856.7	2974.2	5123.5	7377.2	7641.9	8347.6
67.5°	709.5	754.5	891.8	1128.5	1209.8	1760.0	3975.8	7346.5	8655.1	9393.2
70°	517.3	549.1	664.5	891.8	930.8	979.1	2408.6	6244.9	8633.1	9671.0
72.5°	383.3	405.3	482.7	691.9	753.4	661.2	1192.2	4538.7	7418.4	8747.4
75°	277.3	293.8	350.9	529.4	603.0	503.6	594.7	2652.4	5174.6	6153.2
77.5°	212.0	224.6	261.9	387.7	482.7	377.8	369.0	1220.2	2453.6	2465.7
80°	170.2	178.5	198.8	272.9	370.1	282.8	240.5	492.6	775.4	656.2
82.5°	125.2	138.9	168.0	191.7	264.7	194.9	146.6	248.8	294.9	253.7
85°	71.4	80.7	101.6	137.3	169.1	119.2	84.0	110.4	137.3	112.6
87.5°	25.3	32.9	35.7	53.8	73.6	49.4	32.4	31.9	45.0	33.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939655
 CATALOG NUMBER: GALN-SB2B-835-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1517.3	0°	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3
1533.8	2.5°	1528.3	1525.5	1514.5	1499.7	1484.3	1469.5	1464.6	1454.1	1447.0	1443.2
1569.5	5°	1559.0	1550.2	1524.4	1491.5	1456.9	1419.5	1393.2	1369.0	1351.5	1335.0
1618.3	7.5°	1603.0	1587.6	1543.1	1485.4	1423.9	1361.9	1315.8	1280.6	1257.0	1241.6
1675.4	10°	1654.0	1630.4	1562.3	1476.1	1381.1	1292.1	1237.8	1207.6	1192.7	1184.5
1740.8	12.5°	1712.8	1679.3	1582.1	1454.7	1315.8	1214.2	1176.8	1168.0	1168.6	1169.1
1823.2	15°	1785.3	1738.6	1598.0	1408.0	1230.6	1154.3	1147.7	1162.0	1176.8	1184.0
1916.5	17.5°	1867.1	1801.2	1600.8	1331.1	1147.2	1115.9	1136.7	1167.5	1190.0	1199.9
2020.9	20°	1955.0	1864.9	1581.0	1222.4	1078.5	1084.6	1121.9	1161.4	1186.2	1198.8
2140.0	22.5°	2055.5	1933.0	1533.8	1108.2	1022.5	1050.5	1094.4	1132.9	1158.7	1171.3
2280.1	25°	2170.2	2009.3	1459.6	1012.1	974.2	1012.1	1056.0	1087.9	1108.7	1120.3
2436.6	27.5°	2297.6	2089.0	1360.8	935.7	931.9	972.5	1008.8	1033.5	1044.5	1053.3
2603.0	30°	2425.6	2161.4	1241.1	878.1	895.1	933.5	959.4	970.3	973.6	975.3
2788.6	32.5°	2564.0	2224.0	1115.3	830.3	860.0	895.7	911.0	916.0	900.6	890.2
3013.7	35°	2731.5	2291.0	992.3	792.4	825.4	856.1	861.1	856.7	838.5	817.1
3296.0	37.5°	2938.5	2374.5	894.0	765.5	793.0	813.3	807.2	806.1	807.8	782.5
3635.4	40°	3192.2	2483.2	822.1	744.6	766.6	771.0	754.0	763.3	771.6	733.1
4007.7	42.5°	3473.9	2614.5	776.5	730.4	744.6	734.2	707.9	718.3	717.2	666.7
4381.6	45°	3761.1	2757.3	760.6	719.9	724.3	703.5	674.4	677.1	654.0	608.5
4740.2	47.5°	4046.7	2910.5	770.5	711.1	699.1	675.5	652.9	640.9	606.8	572.8
5084.0	50°	4326.7	3071.4	806.7	693.6	664.5	650.7	634.3	612.8	576.6	547.5
5409.1	52.5°	4586.5	3233.4	847.3	664.5	621.1	629.3	618.9	594.2	558.5	528.8
5716.6	55°	4832.5	3395.4	863.3	624.4	580.4	610.7	604.6	559.0	516.2	492.0
6038.4	57.5°	5100.5	3590.3	845.7	573.3	547.5	589.2	566.2	515.6	490.9	472.8
6457.4	60°	5471.7	3896.2	807.8	510.2	516.2	557.4	517.8	497.0	470.1	449.8
7085.6	62.5°	6088.4	4466.8	746.8	447.6	479.4	510.2	494.8	473.9	446.5	426.7
8159.8	65°	7000.0	5259.7	632.1	398.7	438.2	464.0	470.1	449.2	420.6	399.8
9101.0	67.5°	7768.8	5757.3	478.3	358.0	395.9	426.7	443.7	423.4	393.2	372.9
9321.2	70°	7726.5	5395.9	365.2	318.0	358.6	389.9	411.9	395.9	363.5	344.3
8466.7	72.5°	6862.7	4514.0	295.4	277.3	320.7	351.5	377.8	365.7	332.8	314.1
6202.6	75°	5041.7	3204.3	236.1	236.1	273.5	311.4	340.5	332.8	302.6	289.4
2604.1	77.5°	2125.2	1344.3	185.1	196.0	227.3	267.4	303.7	306.4	280.1	296.5
688.6	80°	565.1	370.7	141.1	154.3	178.5	220.8	264.1	263.0	234.5	219.1
255.9	82.5°	215.3	146.1	100.5	108.7	129.0	169.1	209.2	215.8	187.3	162.0
100.5	85°	82.9	62.6	62.1	65.3	75.2	112.0	158.2	163.6	141.1	119.7
28.0	87.5°	21.4	18.7	23.1	22.0	34.6	59.9	90.6	93.9	86.2	50.0
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>
1517.3
1447.6
1341.6
1244.9
1186.7
1170.2
1183.4
1202.1
1202.1
1174.6
1123.6
1056.6
979.1
893.5
818.2
784.2
734.2
666.1
610.1
572.8
545.3
529.4
489.8
471.2
448.7
426.7
400.9
373.4
346.0
314.1
285.6
269.1
203.7
162.0
123.6
71.4
0.0

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