

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: P940144

Luminaire Tested: **GALN-SB3A-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8546 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

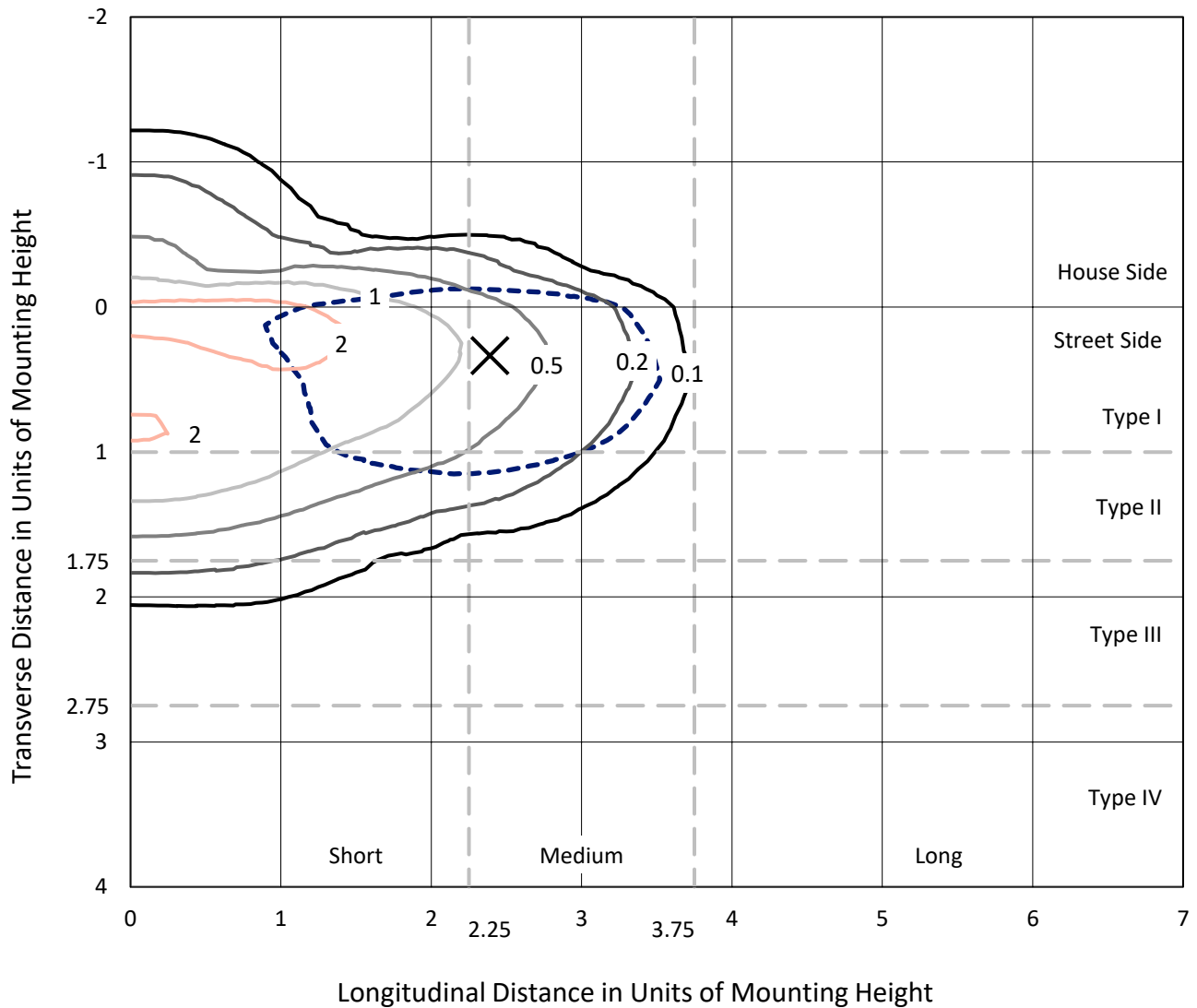
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940144
 CATALOG NUMBER: GALN-SB3A-827-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

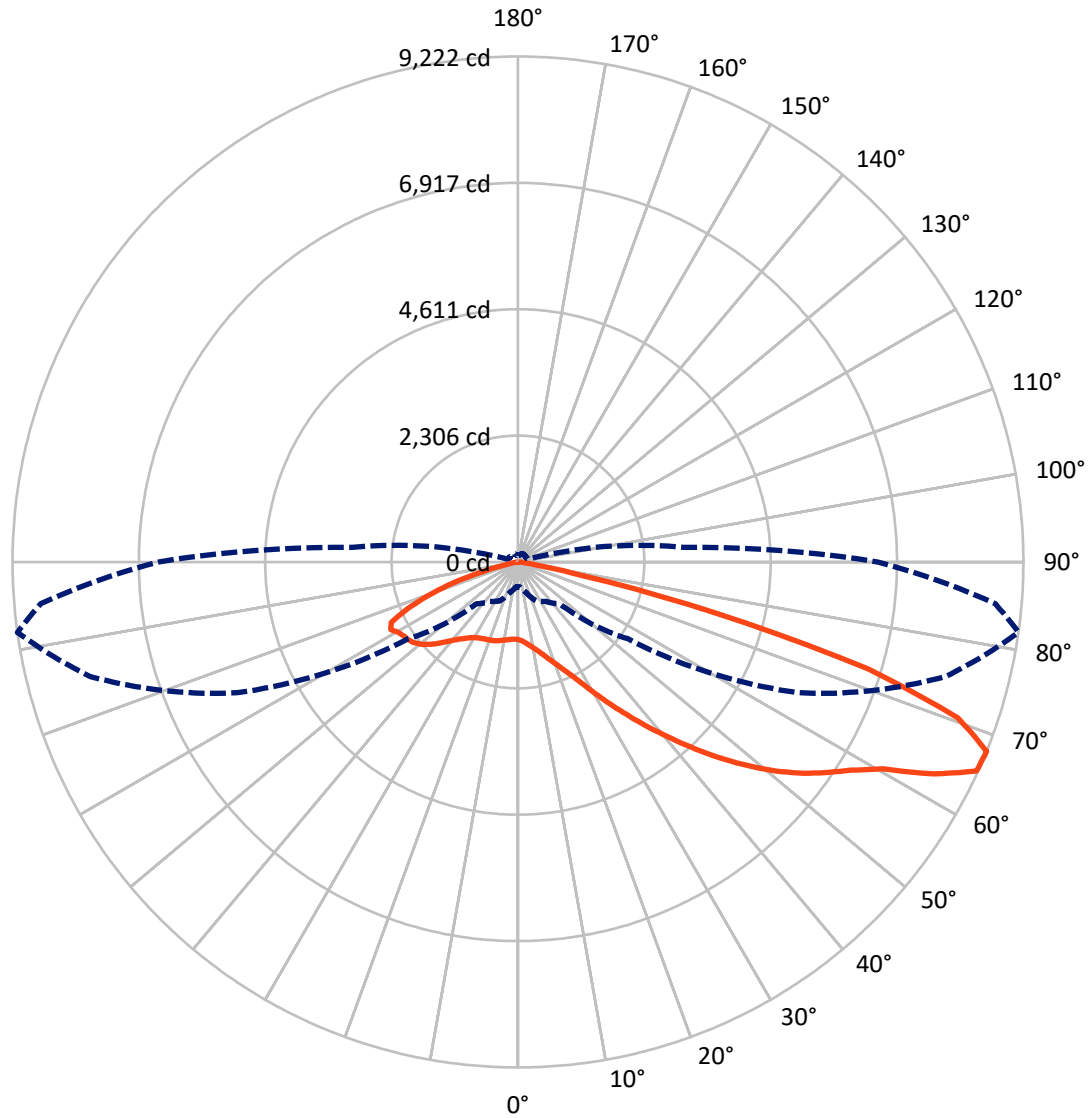
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Medium - N/A

REPORT NUMBER: P940144
CATALOG NUMBER: GALN-SB3A-827-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1548.0	0.0	1548.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6998.0	0.0	6998.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	8546.0	0.0	8546.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	1.5
10°-20°	327.8	3.8
20°-30°	525.0	6.1
30°-40°	928.3	10.9
40°-50°	1626.6	19.0
50°-60°	2169.4	25.4
60°-70°	2019.6	23.6
70°-80°	775.1	9.1
80°-90°	48.1	0.6
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°	8546.0	100.0
0°-180°	8546.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940144

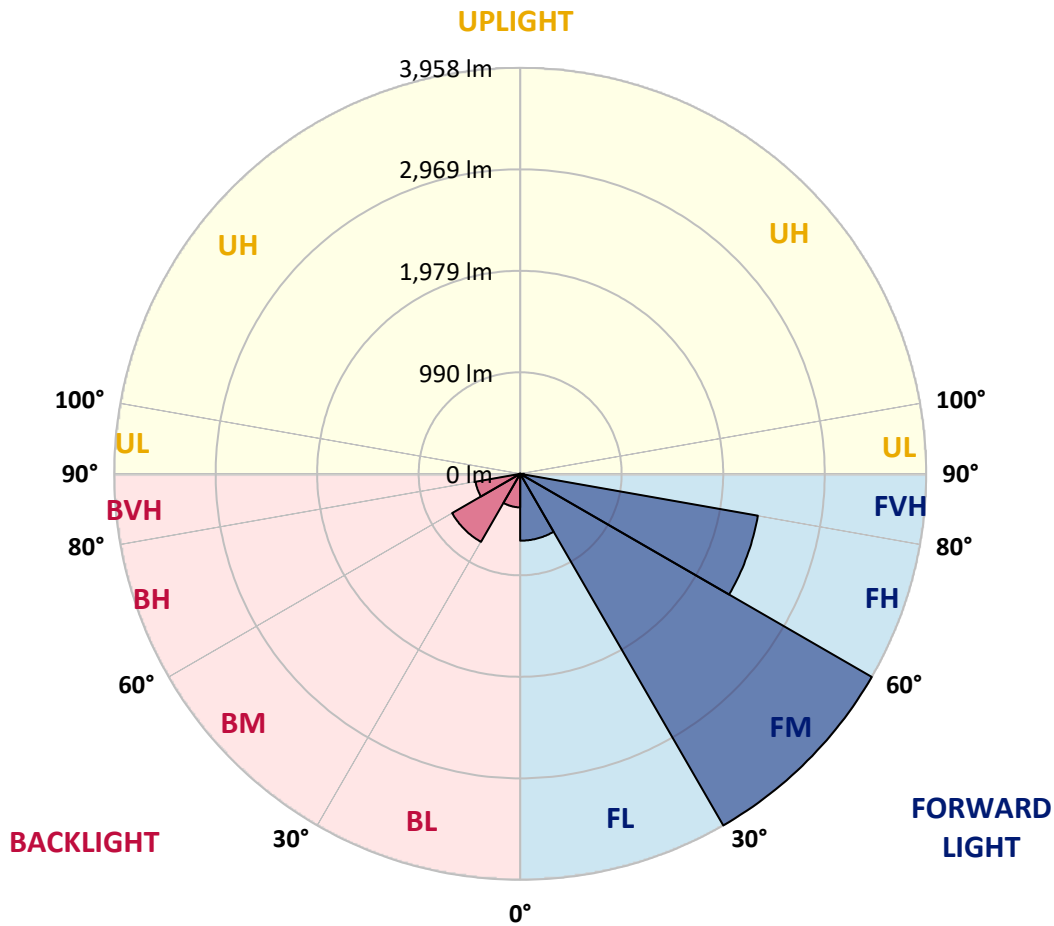
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	652.0	7.6			
FM (30°-60°)	3958.2	46.3			
FH (60°-80°)	2352.8	27.5			G2/5000
FVH (80°-90°)	35.0	0.4			G1/100
BL (0°-30°)	326.9	3.8	B1/500		
BM (30°-60°)	766.1	9.0	B1/1000		
BH (60°-80°)	441.8	5.2	B1/500		G1/500
BVH (80°-90°)	13.1	0.2			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 II Medium



REPORT NUMBER: P940144
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8
2.5°	1496.4	1505.0	1500.1	1497.6	1493.3	1487.2	1482.2	1466.9	1450.9	1440.4
5°	1526.5	1535.1	1534.5	1537.0	1540.1	1541.9	1540.7	1523.5	1500.7	1482.8
7.5°	1500.7	1510.5	1518.5	1530.8	1552.4	1575.1	1586.2	1582.5	1559.1	1534.5
10°	1427.5	1437.9	1457.0	1485.9	1531.5	1580.7	1621.9	1641.0	1626.2	1599.1
12.5°	1293.3	1303.8	1341.3	1404.1	1480.4	1565.9	1644.7	1695.7	1699.4	1672.4
15°	1142.6	1153.1	1193.0	1271.8	1388.1	1525.3	1657.0	1753.6	1786.2	1762.8
17.5°	1049.1	1058.3	1088.4	1151.8	1273.0	1444.1	1652.7	1815.1	1889.6	1871.1
20°	1020.8	1028.8	1042.9	1087.2	1188.1	1359.8	1624.4	1872.9	2000.9	1990.5
22.5°	1050.9	1058.3	1062.6	1082.3	1145.7	1304.4	1588.7	1932.0	2130.1	2131.4
25°	1120.4	1127.8	1122.9	1135.2	1162.9	1287.2	1575.1	2001.5	2292.6	2306.1
27.5°	1234.9	1235.5	1223.8	1223.2	1227.5	1313.0	1589.3	2076.0	2497.5	2522.7
30°	1464.4	1455.2	1410.2	1361.6	1339.5	1390.6	1628.7	2164.0	2739.3	2784.2
32.5°	1818.2	1804.6	1722.2	1605.9	1489.0	1515.5	1699.4	2264.3	3002.6	3083.8
35°	2202.1	2198.4	2112.3	1939.4	1735.1	1693.3	1814.5	2395.9	3290.0	3419.2
37.5°	2559.0	2557.1	2507.9	2304.3	2055.7	1941.2	1999.1	2568.2	3597.6	3784.7
40°	2885.1	2890.6	2841.4	2659.3	2408.9	2259.3	2250.1	2781.1	3939.7	4182.7
42.5°	3166.9	3173.1	3123.2	2988.5	2757.7	2611.3	2558.4	3042.0	4273.8	4610.4
45°	3358.3	3396.4	3389.0	3281.3	3115.8	2963.9	2928.8	3369.3	4654.7	5063.8
47.5°	3412.4	3447.5	3502.8	3517.6	3416.7	3267.2	3309.0	3763.7	5039.8	5517.9
50°	3278.9	3311.5	3426.6	3579.8	3649.9	3603.8	3678.8	4186.4	5434.2	5970.8
52.5°	3015.5	3048.8	3194.0	3436.4	3722.5	3867.7	4049.8	4603.0	5816.3	6399.6
55°	2634.7	2669.7	2856.2	3130.6	3584.1	3976.6	4359.3	5018.9	6166.4	6785.4
57.5°	2116.6	2142.4	2336.3	2720.2	3235.8	3868.3	4587.6	5473.0	6496.2	7164.4
60°	1379.5	1402.2	1627.4	2055.7	2658.7	3506.5	4633.1	5979.4	6934.3	7657.3
62.5°	917.4	932.8	1066.3	1380.7	1872.3	2811.9	4366.7	6383.6	7576.7	8515.0
65°	629.4	644.8	778.3	997.4	1209.7	1860.0	3600.7	6330.1	8158.7	9196.1
67.5°	449.2	462.1	575.3	782.0	875.6	1080.4	2440.9	5645.9	8075.1	9222.0
70°	321.8	329.2	422.7	609.1	695.9	649.1	1357.3	4318.1	7070.3	8515.6
72.5°	225.2	227.7	293.5	463.9	560.5	473.8	646.1	2878.9	5347.5	6683.9
75°	152.6	155.7	197.5	340.3	449.8	361.8	342.1	1543.8	3139.2	3699.7
77.5°	93.5	94.8	127.4	232.6	336.6	275.7	220.3	654.1	1214.6	1192.4
80°	52.9	52.9	81.2	144.6	229.5	177.8	154.4	278.1	384.6	337.8
82.5°	29.5	30.1	59.1	89.8	152.0	105.2	84.9	128.6	166.1	147.1
85°	12.3	13.5	36.3	42.5	72.6	52.3	34.5	54.1	61.5	54.8
87.5°	1.2	1.8	11.1	8.0	8.6	10.5	4.9	10.5	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940144
 CATALOG NUMBER: GALN-SB3A-827-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1415.8	0°	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8	1415.8
1436.7	2.5°	1425.0	1415.8	1392.4	1365.3	1329.6	1312.4	1289.0	1273.0	1259.5	1260.7
1472.4	5°	1452.7	1429.3	1377.0	1311.8	1230.6	1172.7	1111.2	1068.8	1034.3	1026.9
1521.6	7.5°	1490.8	1453.9	1362.3	1244.7	1107.5	1003.5	910.6	850.9	808.5	795.0
1581.3	10°	1540.1	1486.5	1343.2	1160.4	962.9	830.6	731.0	684.2	655.3	645.4
1651.4	12.5°	1597.3	1524.1	1318.0	1057.7	814.0	686.7	623.3	599.9	590.7	587.6
1737.6	15°	1669.3	1570.8	1279.8	935.9	687.9	598.7	571.6	568.5	569.8	568.5
1840.9	17.5°	1754.8	1621.9	1217.7	810.3	603.0	553.8	543.9	546.4	549.5	548.8
1956.6	20°	1848.3	1672.4	1138.3	699.0	545.1	521.8	516.2	518.7	521.2	519.9
2090.1	22.5°	1954.8	1726.5	1050.3	612.2	506.4	492.2	486.1	486.7	486.7	484.2
2259.3	25°	2082.1	1786.2	958.0	550.7	476.8	465.8	458.4	455.9	452.2	444.9
2464.9	27.5°	2234.1	1849.6	869.4	507.6	453.5	443.0	434.4	428.2	419.0	406.7
2711.6	30°	2405.2	1926.5	794.3	480.5	435.0	424.6	414.7	405.5	391.9	376.6
2995.2	32.5°	2606.4	2008.9	739.6	462.7	418.4	407.3	395.6	384.6	369.8	354.4
3314.0	35°	2846.3	2108.6	707.6	450.4	405.5	390.7	377.8	365.5	354.4	340.9
3660.4	37.5°	3106.6	2214.4	697.7	444.2	396.9	374.1	359.3	350.7	349.5	341.5
4035.1	40°	3391.5	2339.9	705.1	440.5	387.6	358.1	342.1	340.3	343.3	329.2
4435.6	42.5°	3693.0	2488.8	717.4	436.2	374.7	342.1	326.7	326.7	324.3	304.6
4858.9	45°	4019.1	2660.5	729.7	425.8	359.3	326.1	314.4	310.1	299.6	280.6
5284.7	47.5°	4347.6	2835.3	739.0	406.7	340.9	312.6	302.1	292.3	276.9	259.7
5702.5	50°	4659.6	2992.2	729.1	378.4	320.0	299.6	288.6	275.0	258.4	246.7
6098.1	52.5°	4938.3	3128.1	687.3	345.2	297.8	286.1	276.3	262.1	248.6	236.3
6455.0	55°	5180.7	3238.3	613.4	313.8	278.1	274.4	264.6	246.7	228.3	217.8
6808.8	57.5°	5413.3	3322.0	521.2	288.0	260.3	261.5	246.7	230.7	213.5	202.4
7285.7	60°	5722.8	3433.9	427.6	264.0	241.2	244.9	228.9	217.2	195.7	181.5
8103.4	62.5°	6217.5	3608.1	339.6	234.4	219.0	220.3	213.5	199.4	173.5	156.9
8709.4	65°	6610.1	3544.1	267.7	202.4	193.8	195.7	195.7	180.3	152.6	133.5
8742.0	67.5°	6565.8	3034.6	213.5	171.1	169.8	171.1	175.4	162.4	135.4	120.0
8076.3	70°	6048.3	2413.8	171.1	142.1	147.7	144.6	156.9	148.3	121.8	106.4
6261.2	72.5°	4935.2	1738.8	130.4	117.5	113.2	118.1	141.5	133.5	101.5	84.3
3316.4	75°	2883.9	927.9	97.2	92.9	81.8	98.4	125.5	113.8	77.5	62.1
1016.5	77.5°	938.9	323.6	71.4	68.3	60.9	79.4	107.1	96.0	63.4	49.2
297.8	80°	251.7	97.8	48.6	44.9	39.4	59.1	84.9	76.3	45.5	32.0
128.0	82.5°	100.9	41.2	28.3	25.2	21.5	40.6	67.1	61.5	33.8	20.3
40.0	85°	32.6	13.5	10.5	8.0	9.8	25.2	40.0	41.8	24.0	10.5
6.2	87.5°	4.3	1.8	1.8	2.5	1.8	4.3	12.3	11.7	6.8	1.2
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>
1415.8
1248.4
1010.3
781.4
638.1
585.8
567.9
547.6
519.3
483.0
443.6
405.5
375.3
355.0
339.6
340.9
329.8
304.6
280.0
259.0
244.9
235.0
216.6
201.2
179.7
155.7
131.7
117.5
104.6
82.4
60.3
47.4
31.4
20.3
8.0
0.0
0.0

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