

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: P940316

Luminaire Tested: **GALN-SB3B-827-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940316  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3B-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

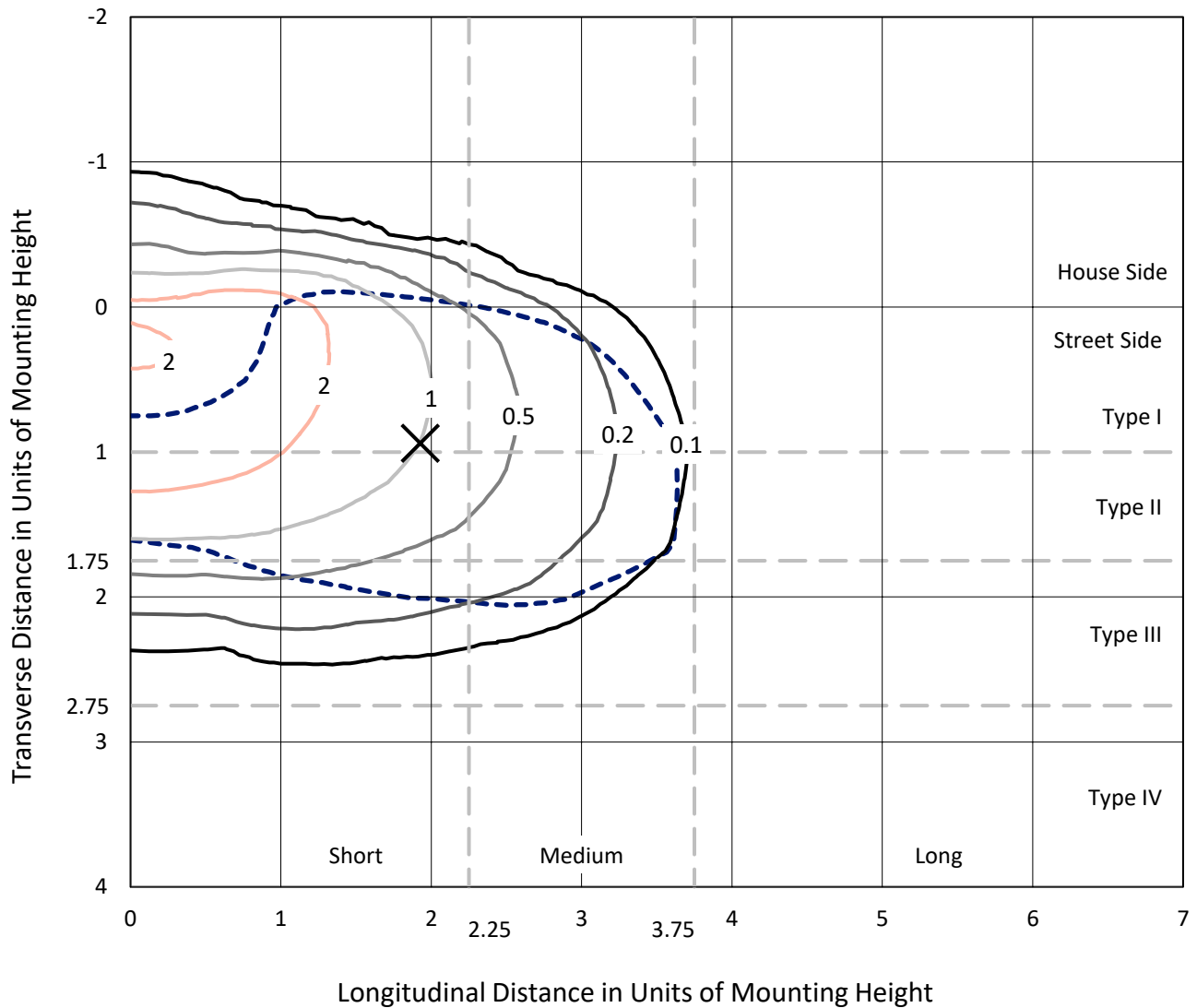
Lumens per Lamp: N/A  
Luminaire Lumens: 11522 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

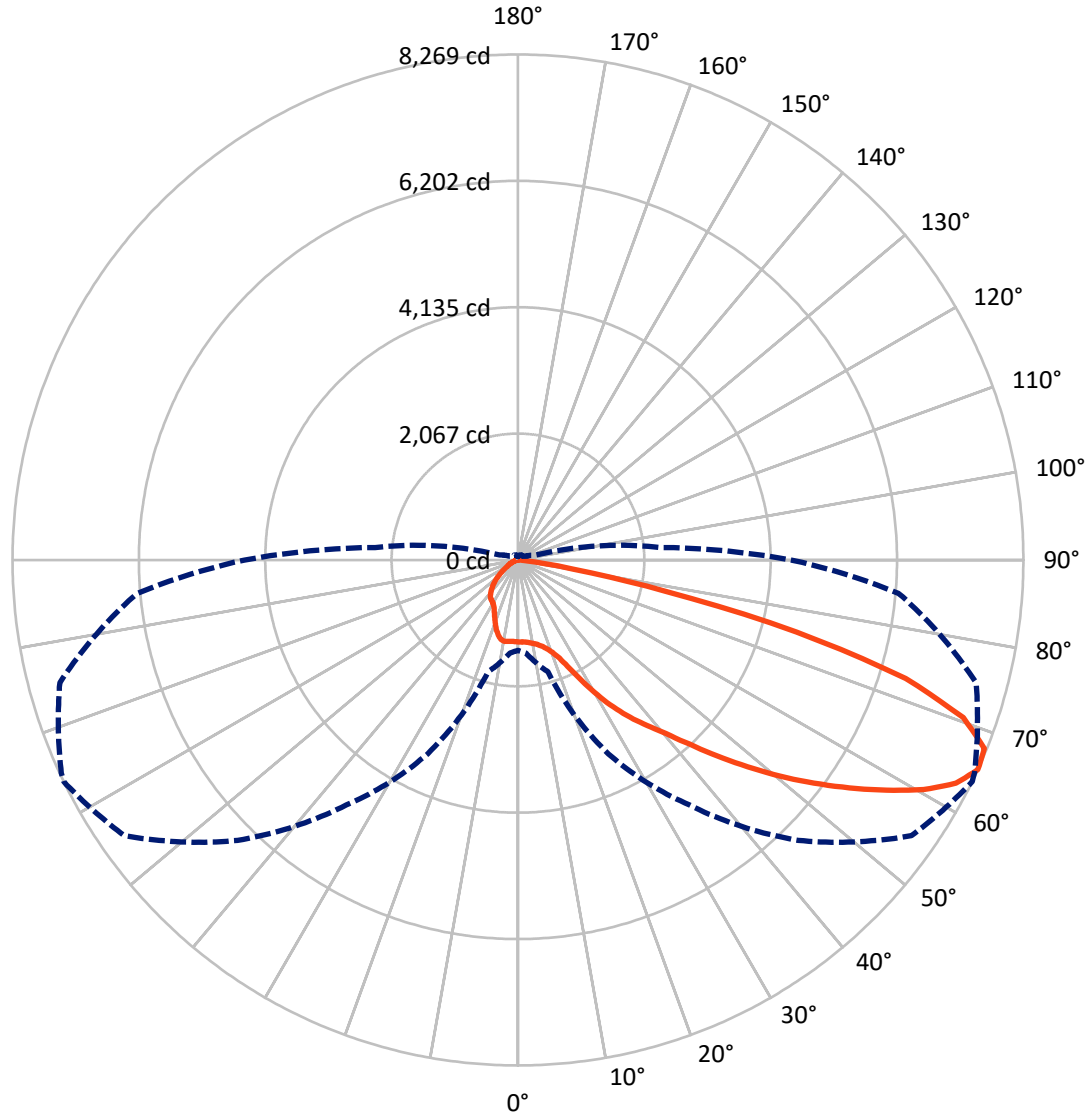
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1540.8	0.0	1540.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	9981.2	0.0	9981.2
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	11522.0	0.0	11522.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.6	1.1
10°-20°	335.3	2.9
20°-30°	635.5	5.5
30°-40°	1285.9	11.2
40°-50°	2190.5	19.0
50°-60°	2978.9	25.9
60°-70°	2797.3	24.3
70°-80°	1120.7	9.7
80°-90°	54.3	0.5
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°	11522.0	100.0
0°-180°	11522.0	100.0

**Coefficient of Utilization**



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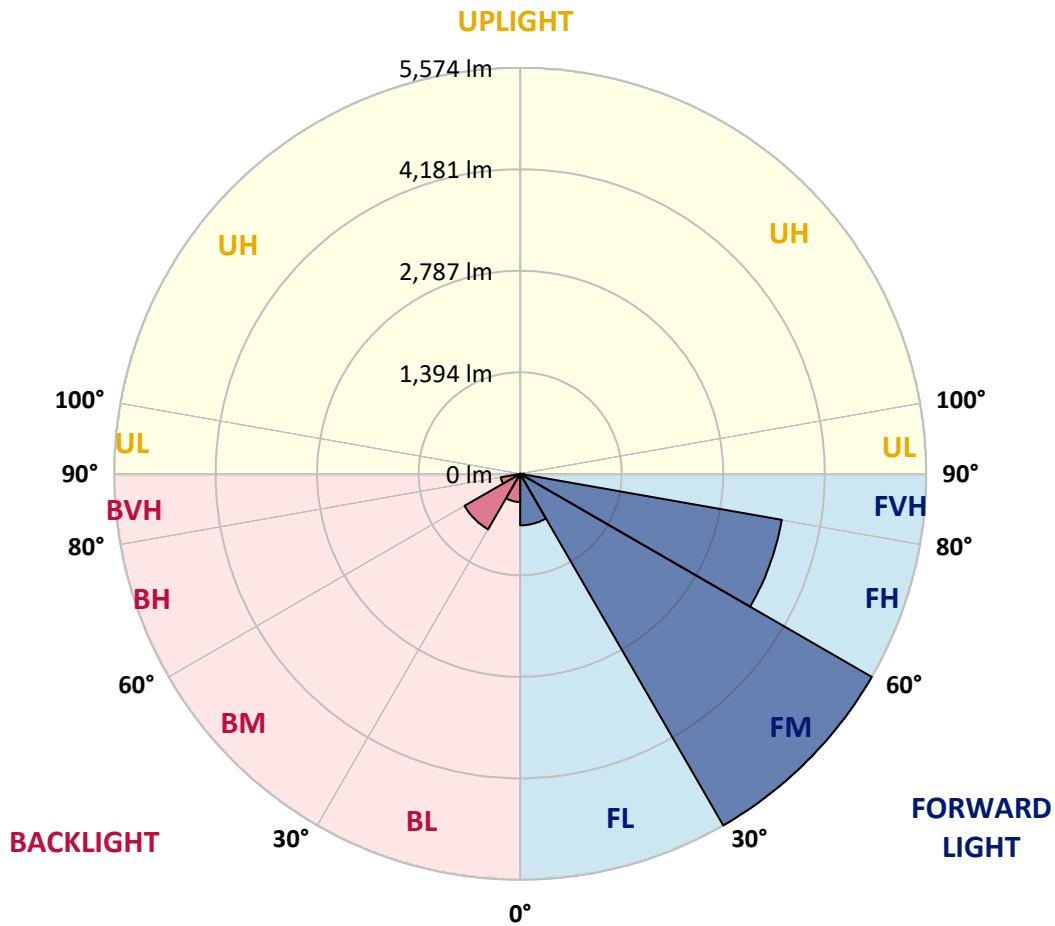
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	707.6	6.1			
FM (30°-60°)	5574.3	48.4			
FH (60°-80°)	3647.6	31.7			G2/5000
FVH (80°-90°)	51.6	0.4			G1/100
BL (0°-30°)	386.9	3.4	B1/500		
BM (30°-60°)	880.9	7.6	B1/1000		
BH (60°-80°)	270.4	2.3	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1
2.5°	1335.5	1344.8	1342.4	1340.1	1339.4	1340.9	1341.7	1340.9	1340.9	1340.9
5°	1310.0	1317.7	1317.7	1323.1	1330.9	1340.1	1347.1	1348.6	1350.2	1352.5
7.5°	1261.3	1267.5	1272.2	1289.9	1309.2	1333.9	1354.8	1365.6	1367.2	1375.7
10°	1228.1	1235.9	1243.6	1262.1	1289.9	1327.0	1362.5	1388.8	1392.7	1412.7
12.5°	1226.6	1234.3	1244.3	1264.4	1296.9	1336.3	1379.5	1417.4	1424.3	1453.7
15°	1242.8	1252.1	1261.3	1286.1	1320.8	1368.7	1415.1	1462.2	1469.1	1510.8
17.5°	1276.0	1288.4	1295.3	1320.0	1357.1	1410.4	1471.4	1525.5	1531.7	1580.3
20°	1341.7	1356.3	1358.7	1378.7	1415.1	1472.2	1544.8	1612.0	1619.7	1675.4
22.5°	1477.6	1498.5	1479.9	1490.0	1522.4	1579.6	1658.4	1743.3	1754.1	1817.5
25°	1717.1	1746.4	1698.5	1681.5	1695.4	1754.9	1853.8	1961.1	1973.5	2024.5
27.5°	2187.5	2149.6	2077.0	2005.9	1964.2	1998.2	2109.4	2242.3	2257.7	2307.2
30°	2704.2	2671.0	2572.9	2415.3	2316.5	2311.0	2413.8	2562.1	2579.8	2627.0
32.5°	3221.7	3190.0	3083.5	2889.6	2718.1	2633.1	2704.2	2868.7	2878.0	2908.1
35°	3730.7	3698.3	3591.7	3393.2	3182.3	2989.2	2975.3	3160.7	3163.8	3195.5
37.5°	4242.8	4215.8	4102.3	3907.6	3699.8	3433.4	3304.4	3437.2	3441.1	3472.0
40°	4608.2	4619.8	4541.8	4391.1	4212.7	3921.5	3673.6	3731.5	3708.3	3760.1
42.5°	4921.8	4945.0	4877.0	4801.3	4697.8	4441.3	4130.8	4120.8	4083.7	4111.5
45°	5192.9	5212.2	5151.2	5133.4	5131.1	4951.1	4630.6	4570.3	4518.6	4513.2
47.5°	5292.5	5329.6	5355.9	5415.4	5531.2	5455.5	5147.3	5053.9	4995.9	4953.5
50°	5330.4	5369.8	5459.4	5632.4	5906.6	5939.0	5661.8	5556.7	5485.6	5408.4
52.5°	5279.4	5349.7	5470.2	5761.4	6159.2	6326.8	6155.3	6063.4	5982.3	5856.4
55°	4978.9	5049.2	5295.6	5759.8	6285.1	6598.7	6621.9	6580.9	6489.8	6291.3
57.5°	4345.6	4449.8	4839.9	5563.7	6282.8	6832.7	7079.1	7108.5	7006.5	6722.3
60°	3468.1	3609.5	4085.3	5128.8	6088.9	6959.4	7480.0	7626.8	7518.6	7147.1
62.5°	2420.0	2583.7	3034.0	4447.5	5645.5	6868.3	7772.7	8043.9	7962.0	7527.1
65°	1476.1	1528.6	1891.6	3499.8	4891.7	6486.7	7863.1	8269.4	8242.4	7759.6
67.5°	983.3	1027.3	1131.6	2399.9	3797.2	5724.3	7646.8	8230.0	8237.7	7721.8
70°	592.4	630.3	698.3	1395.7	2460.9	4530.9	6977.2	7727.9	7772.7	7215.8
72.5°	244.1	269.6	331.4	632.6	1274.5	2875.7	5555.9	6635.0	6739.3	6067.3
75°	138.3	151.4	194.6	317.5	553.0	1340.1	3365.4	4710.1	4863.9	4181.8
77.5°	91.9	98.1	125.9	205.5	311.3	457.3	1438.2	2453.9	2747.5	2284.0
80°	61.8	67.2	86.5	137.5	202.4	196.2	458.0	909.1	1118.4	784.8
82.5°	41.7	42.5	61.8	90.4	128.2	95.0	135.2	282.7	355.3	227.1
85°	23.9	23.2	45.6	52.5	57.2	39.4	40.9	85.0	111.2	95.8
87.5°	3.1	4.6	17.8	13.9	7.7	8.5	8.5	14.7	21.6	23.2
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°
1340.1	0°	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1	1340.1
1341.7	2.5°	1341.7	1340.9	1338.6	1336.3	1330.9	1327.8	1329.3	1327.8	1327.0	1327.8
1351.7	5°	1351.7	1349.4	1343.2	1335.5	1324.7	1311.5	1303.1	1290.7	1279.1	1272.2
1378.7	7.5°	1378.7	1376.4	1367.9	1346.3	1311.5	1256.7	1206.5	1162.5	1129.3	1110.0
1422.0	10°	1422.0	1418.1	1405.0	1357.1	1266.0	1146.3	1046.6	964.0	909.9	884.4
1473.0	12.5°	1473.0	1468.3	1445.2	1347.1	1179.5	992.5	855.1	763.1	712.9	690.5
1531.7	15°	1533.2	1527.1	1481.5	1299.2	1053.6	822.6	696.7	628.0	595.5	575.4
1606.6	17.5°	1608.2	1597.3	1508.5	1227.4	916.8	692.9	599.4	547.6	519.1	499.7
1704.7	20°	1705.5	1687.7	1530.1	1141.6	790.9	611.0	533.7	490.5	468.9	451.9
1843.7	22.5°	1841.4	1815.9	1556.4	1048.9	702.1	554.6	485.1	453.4	435.6	416.3
2037.6	25°	2009.8	1979.7	1588.8	963.2	641.1	505.9	449.5	423.3	402.4	380.0
2291.7	27.5°	2245.4	2191.3	1627.5	892.9	588.6	464.2	417.1	387.7	363.8	345.3
2579.8	30°	2508.0	2419.2	1661.5	850.4	540.7	425.6	374.6	345.3	322.9	309.7
2838.6	32.5°	2756.7	2636.2	1683.8	831.9	497.4	381.6	328.3	296.6	279.6	275.7
3092.0	35°	2991.5	2832.4	1681.5	814.1	458.8	337.5	282.7	250.3	237.1	239.4
3364.6	37.5°	3261.9	3041.7	1665.3	786.3	427.1	297.4	243.3	214.7	203.1	203.9
3696.0	40°	3576.3	3283.5	1655.3	733.8	392.4	260.3	210.9	187.7	179.2	176.1
4045.1	42.5°	3911.5	3517.5	1656.8	674.3	349.1	227.1	188.5	169.2	161.4	159.1
4433.6	45°	4248.2	3740.8	1659.1	612.5	303.6	201.6	172.2	156.0	151.4	148.3
4827.6	47.5°	4564.9	3930.8	1615.9	546.1	258.8	182.3	159.1	148.3	144.4	140.6
5223.0	50°	4860.0	4057.5	1511.6	468.9	223.2	166.8	149.1	141.4	137.5	133.6
5581.4	52.5°	5089.4	4077.5	1339.4	389.3	198.5	155.3	142.9	135.9	131.3	127.4
5871.1	55°	5191.4	3951.6	1094.5	315.1	179.2	145.2	136.7	129.8	124.4	120.5
6098.9	57.5°	5165.1	3686.7	853.5	253.3	160.7	135.2	129.0	124.4	118.2	112.0
6283.5	60°	5036.1	3332.2	643.4	210.9	143.7	124.4	120.5	116.6	108.1	98.9
6354.6	62.5°	4812.9	2886.5	458.8	174.6	125.1	112.0	110.5	107.4	95.0	78.0
6249.6	65°	4471.5	2345.0	309.0	145.2	107.4	98.1	98.9	93.5	77.2	57.9
5864.9	67.5°	3972.5	1714.7	197.7	119.0	89.6	81.9	82.6	79.6	65.7	49.4
5135.7	70°	3336.8	1135.4	129.0	90.4	71.8	63.3	68.0	68.7	55.6	40.2
3941.6	72.5°	2446.2	670.5	90.4	67.2	52.5	44.0	55.6	57.2	44.8	30.1
2371.3	75°	1394.2	318.2	68.0	48.7	32.4	30.9	43.3	43.3	30.9	20.1
1026.5	77.5°	585.5	132.9	47.9	31.7	18.5	17.8	29.4	27.0	15.4	9.3
250.3	80°	169.2	59.5	25.5	15.4	7.7	7.0	11.6	8.5	3.9	1.5
95.0	82.5°	66.4	26.3	10.0	6.2	3.1	3.1	1.5	0.0	0.0	0.0
54.1	85°	39.4	10.8	4.6	2.3	0.8	0.0	0.0	0.0	0.0	0.0
11.6	87.5°	10.0	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
1340.1
1330.9
1273.7
1110.7
882.1
688.2
576.2
498.2
448.8
413.2
377.7
341.4
307.4
278.1
239.4
207.0
175.3
158.3
148.3
140.6
133.6
126.7
119.7
111.2
97.3
76.5
56.4
47.1
38.6
28.6
18.5
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