

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: P940356

Luminaire Tested: **GALN-SB3B-850-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940356
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-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 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: 12674 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

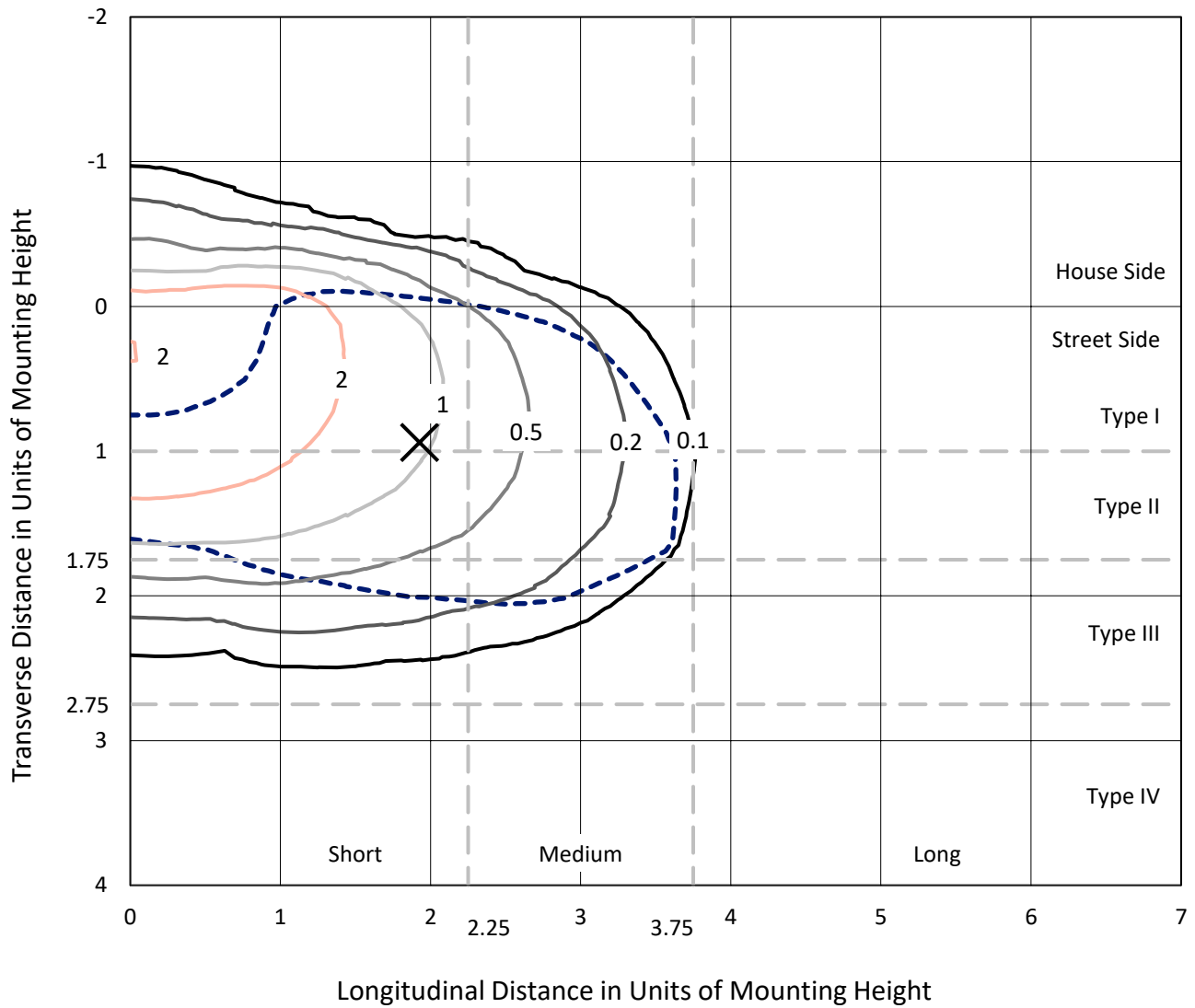
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

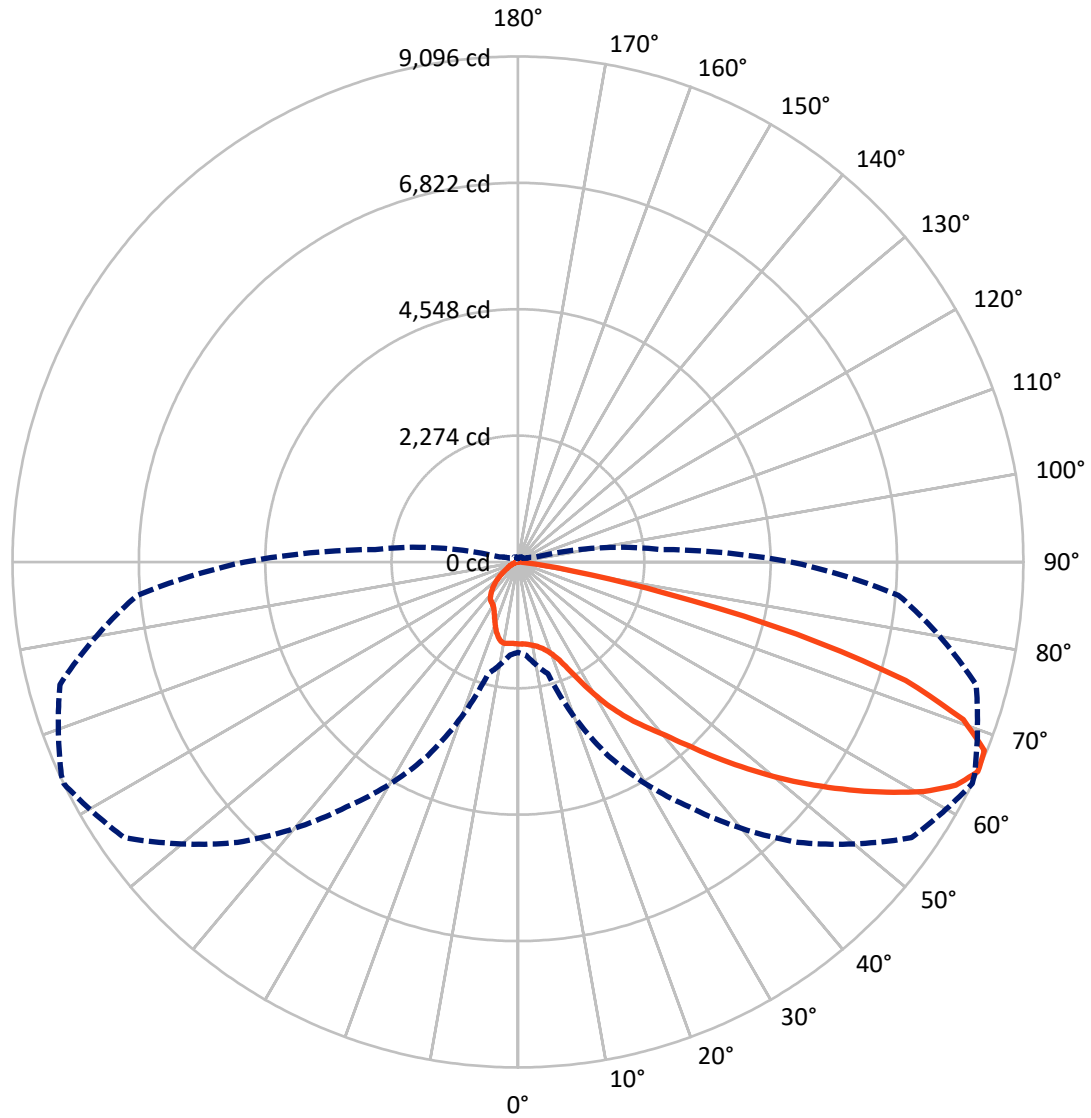
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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
House Side	Lumens	1694.9	0.0	1694.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	10979.1	0.0	10979.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	12674.0	0.0	12674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	1.1
10°-20°	368.9	2.9
20°-30°	699.0	5.5
30°-40°	1414.4	11.2
40°-50°	2409.5	19.0
50°-60°	3276.7	25.9
60°-70°	3077.0	24.3
70°-80°	1232.8	9.7
80°-90°	59.7	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°	12674.0	100.0
0°-180°	12674.0	100.0

Coefficient of Utilization



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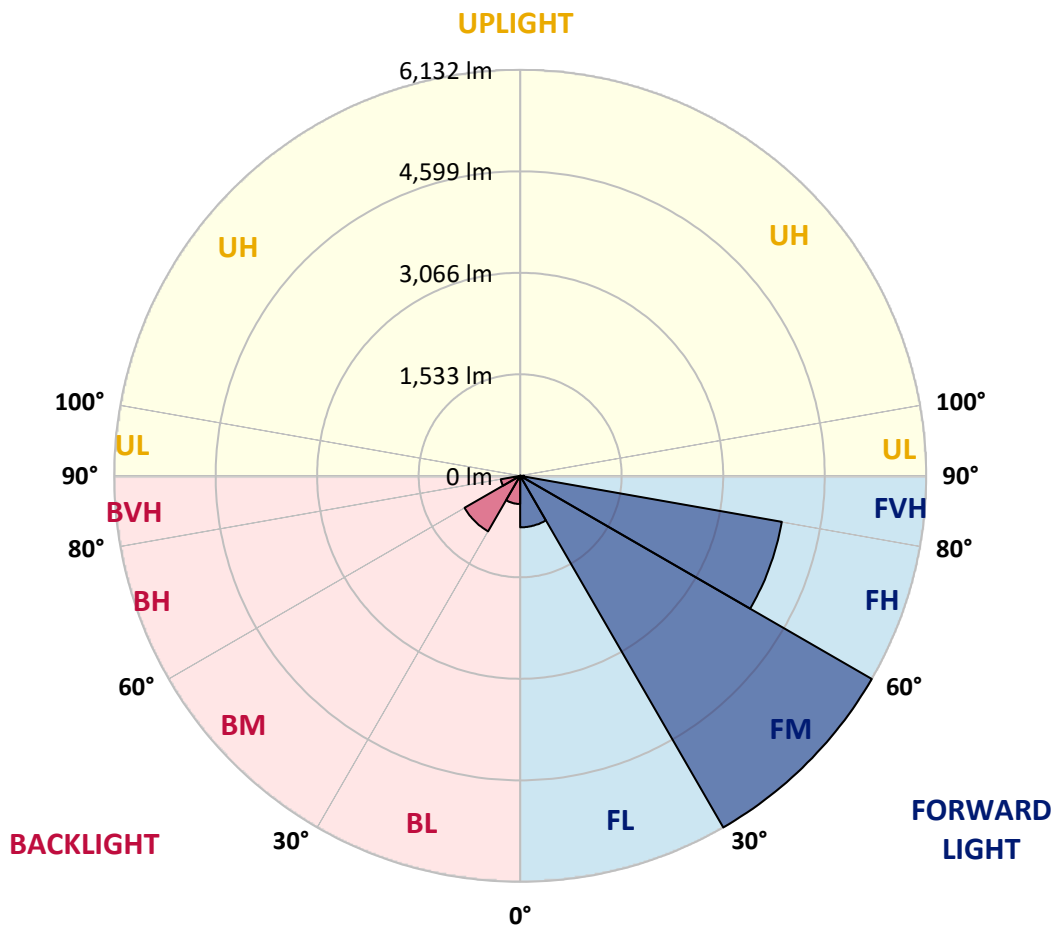
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	778.3	6.1			
FM (30°-60°)	6131.7	48.4			
FH (60°-80°)	4012.3	31.7			G2/5000
FVH (80°-90°)	56.8	0.4			G1/100
BL (0°-30°)	425.5	3.4	B1/500		
BM (30°-60°)	969.0	7.6	B1/1000		
BH (60°-80°)	297.5	2.3	B1/500		G1/500
BVH (80°-90°)	2.9	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°	1474.1	1474.1	1474.1	1474.1	1474.1	1474.1	1474.1	1474.1	1474.1	1474.1
2.5°	1469.0	1479.2	1476.7	1474.1	1473.3	1475.0	1475.8	1475.0	1475.0	1475.0
5°	1441.0	1449.5	1449.5	1455.4	1463.9	1474.1	1481.8	1483.5	1485.2	1487.7
7.5°	1387.5	1394.3	1399.3	1418.9	1440.1	1467.3	1490.3	1502.2	1503.9	1513.2
10°	1350.9	1359.4	1367.9	1388.3	1418.9	1459.7	1498.8	1527.6	1531.9	1554.0
12.5°	1349.2	1357.7	1368.8	1390.9	1426.5	1469.9	1517.4	1559.1	1566.7	1599.0
15°	1367.1	1377.3	1387.5	1414.6	1452.9	1505.6	1556.5	1608.4	1616.0	1661.9
17.5°	1403.6	1417.2	1424.8	1452.0	1492.8	1551.4	1618.6	1678.0	1684.8	1738.4
20°	1475.8	1492.0	1494.5	1516.6	1556.5	1619.4	1699.3	1773.2	1781.7	1842.9
22.5°	1625.4	1648.3	1627.9	1638.9	1674.6	1737.5	1824.2	1917.6	1929.5	1999.2
25°	1888.7	1921.0	1868.3	1849.7	1865.0	1930.4	2039.1	2157.2	2170.8	2226.9
27.5°	2406.2	2364.5	2284.7	2206.5	2160.6	2198.0	2320.4	2466.5	2483.5	2537.9
30°	2974.6	2938.0	2830.1	2656.8	2548.1	2542.1	2655.1	2818.2	2837.8	2889.6
32.5°	3543.8	3509.0	3391.7	3178.5	2989.9	2896.4	2974.6	3155.5	3165.7	3198.9
35°	4103.7	4068.1	3950.8	3732.4	3500.5	3288.1	3272.8	3476.7	3480.1	3514.9
37.5°	4667.0	4637.3	4512.4	4298.3	4069.8	3776.6	3634.7	3780.9	3785.1	3819.1
40°	5068.9	5081.7	4995.9	4830.2	4633.9	4313.6	4040.9	4104.6	4079.1	4136.0
42.5°	5413.9	5439.4	5364.6	5281.3	5167.5	4885.4	4543.9	4532.8	4492.0	4522.6
45°	5712.1	5733.3	5666.2	5646.7	5644.1	5446.2	5093.6	5027.3	4970.4	4964.4
47.5°	5821.7	5862.5	5891.4	5956.8	6084.2	6001.0	5662.0	5559.2	5495.4	5448.7
50°	5863.3	5906.7	6005.2	6195.5	6497.2	6532.8	6227.8	6112.3	6034.1	5949.1
52.5°	5807.3	5884.6	6017.1	6337.4	6775.0	6959.4	6770.7	6669.6	6580.4	6441.9
55°	5476.8	5554.1	5825.1	6335.7	6913.5	7258.4	7283.9	7238.9	7138.6	6920.3
57.5°	4780.1	4894.8	5323.8	6119.9	6910.9	7515.9	7786.9	7819.2	7707.0	7394.4
60°	3814.9	3970.3	4493.7	5641.6	6697.7	7655.2	8227.9	8389.3	8270.4	7861.7
62.5°	2661.9	2842.0	3337.4	4892.2	6210.0	7555.0	8549.9	8848.1	8758.0	8279.7
65°	1623.7	1681.4	2080.8	3849.7	5380.7	7135.2	8649.3	9096.2	9066.5	8535.4
67.5°	1081.6	1130.0	1244.7	2639.8	4176.8	6296.6	8411.4	9052.9	9061.4	8493.8
70°	651.7	693.3	768.1	1535.3	2706.9	4984.0	7674.8	8500.6	8549.9	7937.3
72.5°	268.5	296.5	364.5	695.9	1401.9	3163.2	6111.4	7298.4	7413.1	6673.9
75°	152.1	166.5	214.1	349.2	608.3	1474.1	3701.9	5181.1	5350.2	4599.9
77.5°	101.1	107.9	138.5	226.0	342.4	503.0	1582.0	2699.3	3022.2	2512.4
80°	68.0	73.9	95.2	151.2	222.6	215.8	503.8	1000.0	1230.3	863.2
82.5°	45.9	46.7	68.0	99.4	141.0	104.5	148.7	311.0	390.8	249.8
85°	26.3	25.5	50.1	57.8	62.9	43.3	45.0	93.5	122.3	105.4
87.5°	3.4	5.1	19.5	15.3	8.5	9.3	9.3	16.1	23.8	25.5
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°
1474.1	0°	1474.1	1474.1	1474.1	1474.1	1474.1	1474.1	1474.1	1474.1	1474.1	1474.1
1475.8	2.5°	1475.8	1475.0	1472.4	1469.9	1463.9	1460.5	1462.2	1460.5	1459.7	1460.5
1486.9	5°	1486.9	1484.3	1477.5	1469.0	1457.1	1442.7	1433.3	1419.7	1407.0	1399.3
1516.6	7.5°	1516.6	1514.1	1504.7	1480.9	1442.7	1382.4	1327.1	1278.7	1242.2	1220.9
1564.2	10°	1564.2	1559.9	1545.5	1492.8	1392.6	1260.9	1151.3	1060.3	1000.9	972.8
1620.3	12.5°	1620.3	1615.2	1589.7	1481.8	1297.4	1091.8	940.5	839.4	784.2	759.6
1684.8	15°	1686.5	1679.7	1629.6	1429.1	1158.9	904.9	766.4	690.8	655.1	633.0
1767.2	17.5°	1768.9	1757.0	1659.3	1350.1	1008.5	762.1	659.3	602.4	571.0	549.7
1875.1	20°	1876.0	1856.5	1683.1	1255.8	870.0	672.1	587.1	539.5	515.7	497.0
2028.1	22.5°	2025.5	1997.5	1712.0	1153.8	772.3	610.0	533.6	498.7	479.2	458.0
2241.3	25°	2210.8	2177.6	1747.7	1059.5	705.2	556.5	494.5	465.6	442.7	418.0
2520.9	27.5°	2469.9	2410.4	1790.2	982.2	647.4	510.6	458.8	426.5	400.2	379.8
2837.8	30°	2758.8	2661.1	1827.6	935.4	594.7	468.1	412.1	379.8	355.1	340.7
3122.4	32.5°	3032.3	2899.8	1852.2	915.1	547.2	419.7	361.1	326.3	307.6	303.3
3401.1	35°	3290.6	3115.6	1849.7	895.5	504.7	371.3	311.0	275.3	260.8	263.4
3701.0	37.5°	3588.0	3345.9	1831.8	864.9	469.8	327.1	267.6	236.2	223.5	224.3
4065.5	40°	3933.8	3611.8	1820.8	807.2	431.6	286.3	232.0	206.5	197.1	193.7
4449.5	42.5°	4302.6	3869.2	1822.5	741.7	384.0	249.8	207.3	186.1	177.6	175.0
4876.9	45°	4673.0	4114.8	1825.0	673.8	333.9	221.8	189.5	171.6	166.5	163.1
5310.2	47.5°	5021.3	4323.8	1777.4	600.7	284.6	200.5	175.0	163.1	158.9	154.6
5745.2	50°	5345.9	4463.1	1662.7	515.7	245.5	183.5	164.0	155.5	151.2	147.0
6139.5	52.5°	5598.2	4485.2	1473.3	428.2	218.4	170.8	157.2	149.5	144.4	140.2
6458.1	55°	5710.4	4346.7	1203.9	346.7	197.1	159.7	150.4	142.7	136.8	132.5
6708.7	57.5°	5681.5	4055.3	938.8	278.7	176.7	148.7	141.9	136.8	130.0	123.2
6911.8	60°	5539.6	3665.3	707.7	232.0	158.0	136.8	132.5	128.3	118.9	108.8
6990.0	62.5°	5294.1	3175.1	504.7	192.0	137.6	123.2	121.5	118.1	104.5	85.8
6874.4	65°	4918.5	2579.5	339.9	159.7	118.1	107.9	108.8	102.8	85.0	63.7
6451.3	67.5°	4369.7	1886.2	217.5	130.8	98.6	90.1	90.9	87.5	72.2	54.4
5649.2	70°	3670.4	1249.0	141.9	99.4	79.0	69.7	74.8	75.6	61.2	44.2
4335.7	72.5°	2690.8	737.5	99.4	73.9	57.8	48.4	61.2	62.9	49.3	33.1
2608.4	75°	1533.6	350.0	74.8	53.5	35.7	34.0	47.6	47.6	34.0	22.1
1129.2	77.5°	644.0	146.1	52.7	34.8	20.4	19.5	32.3	29.7	17.0	10.2
275.3	80°	186.1	65.4	28.0	17.0	8.5	7.6	12.7	9.3	4.2	1.7
104.5	82.5°	73.1	28.9	11.0	6.8	3.4	3.4	1.7	0.0	0.0	0.0
59.5	85°	43.3	11.9	5.1	2.5	0.8	0.0	0.0	0.0	0.0	0.0
12.7	87.5°	11.0	2.5	1.7	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>
1474.1
1463.9
1401.0
1221.8
970.3
757.0
633.8
548.0
493.6
454.6
415.5
375.5
338.2
305.9
263.4
227.7
192.9
174.2
163.1
154.6
147.0
139.3
131.7
122.3
107.1
84.1
62.0
51.8
42.5
31.4
20.4
10.2
1.7
0.0
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