

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: P941086

Luminaire Tested: **GALN-SB4B-950-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941086
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-SB4B-950-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 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: 12313 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

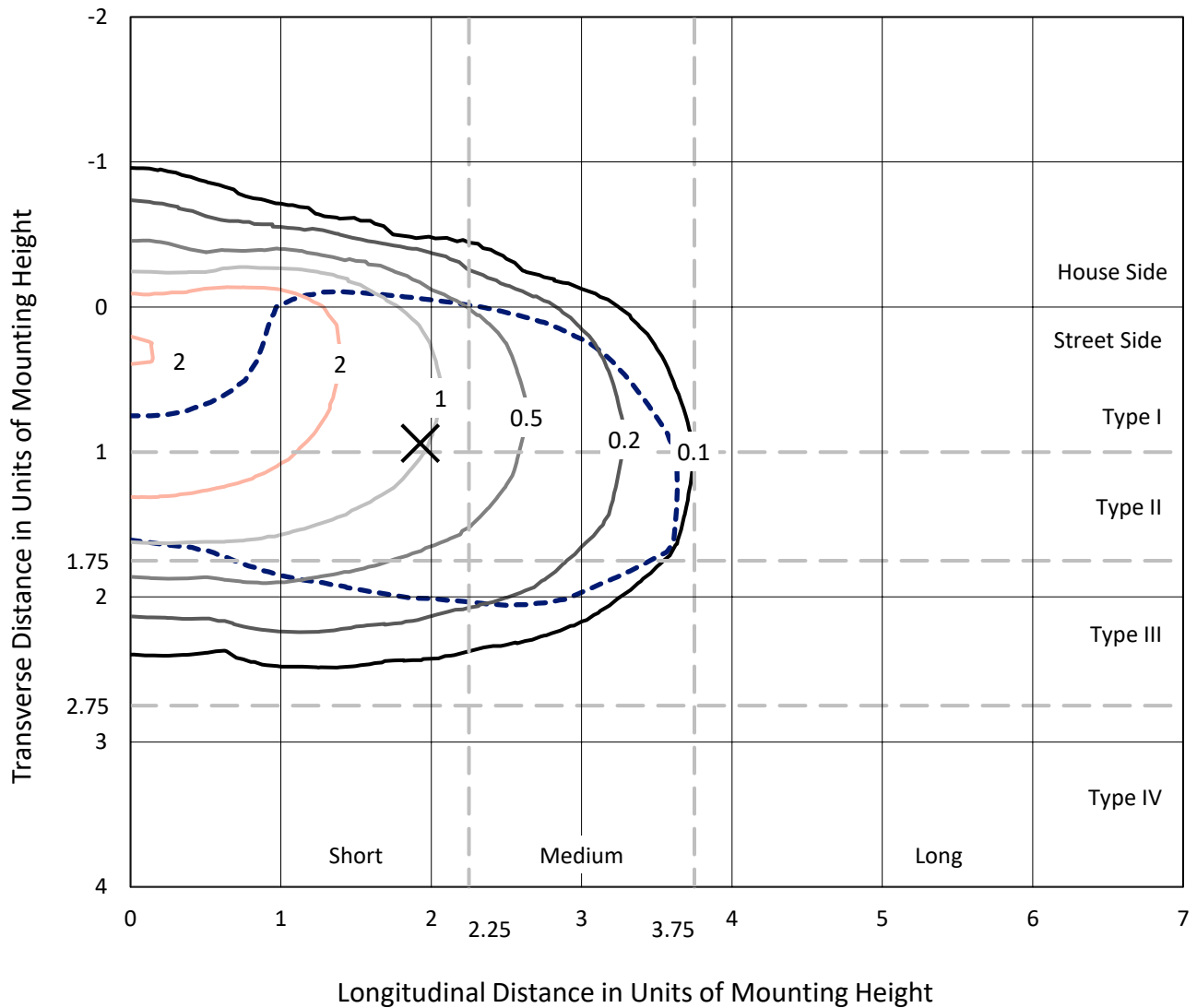
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

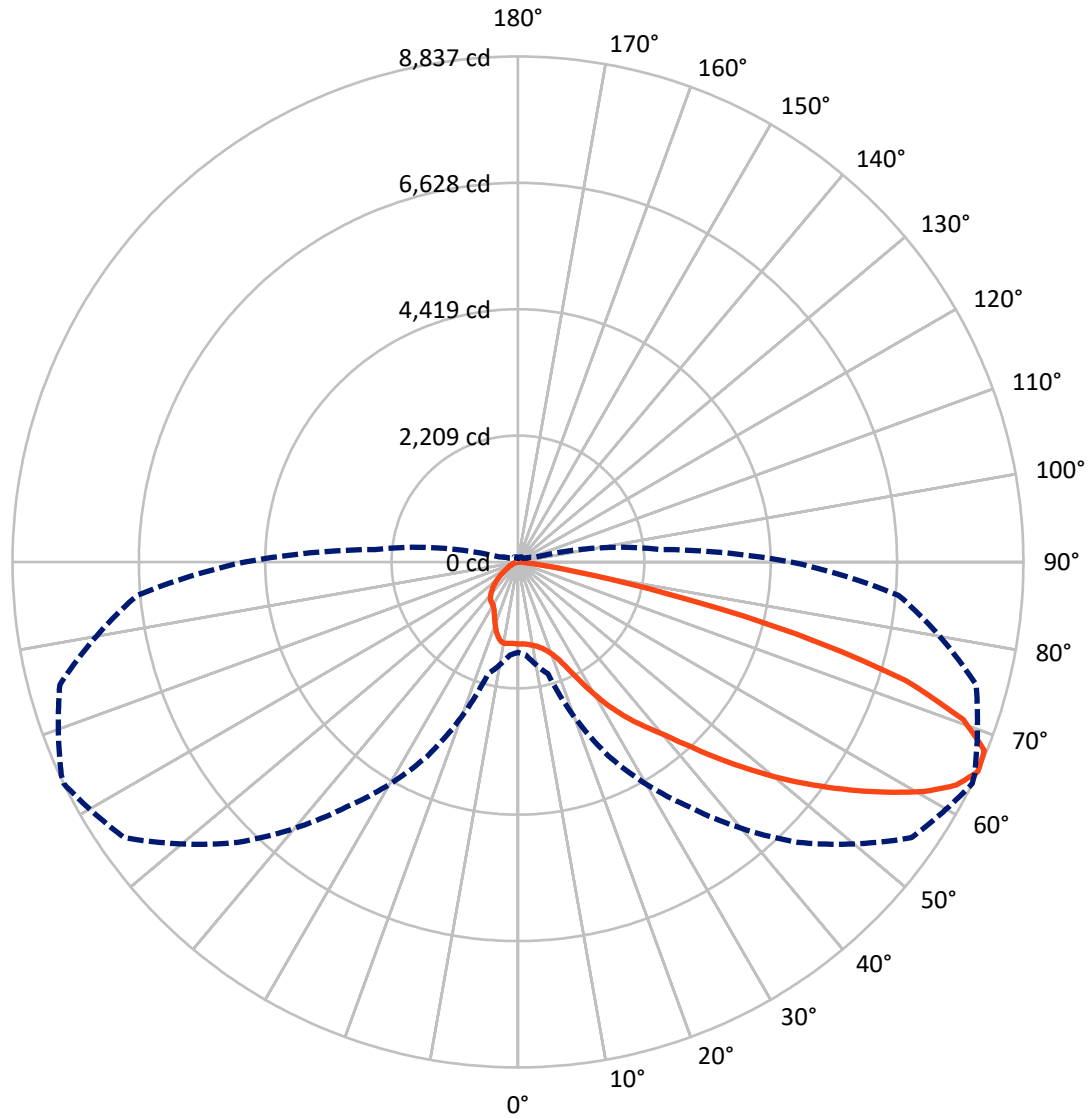
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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CATALOG NUMBER: GALN-SB4B-950-U-T3-HSS

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	1646.6	0.0	1646.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	10666.4	0.0	10666.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	12313.0	0.0	12313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	1.1
10°-20°	358.4	2.9
20°-30°	679.1	5.5
30°-40°	1374.1	11.2
40°-50°	2340.9	19.0
50°-60°	3183.4	25.9
60°-70°	2989.4	24.3
70°-80°	1197.7	9.7
80°-90°	58.0	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°	12313.0	100.0
0°-180°	12313.0	100.0

Coefficient of Utilization



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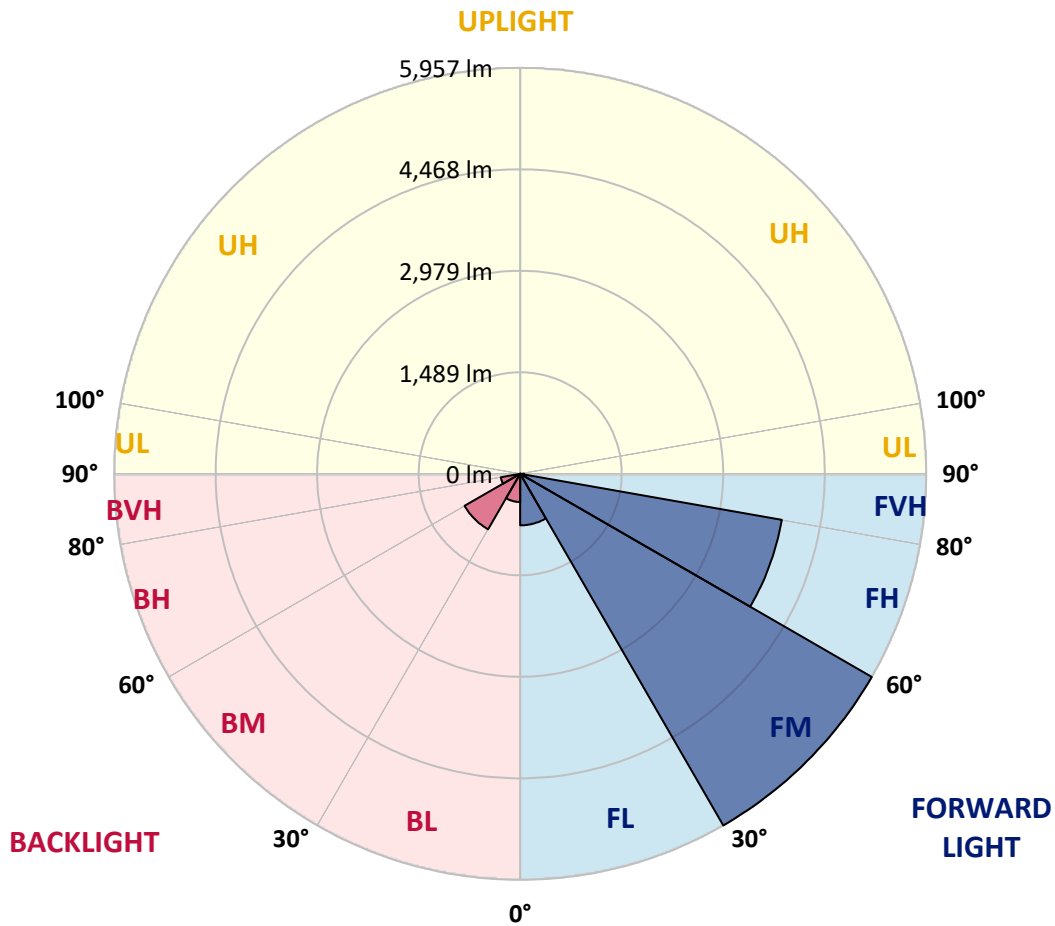
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	756.2	6.1			
FM (30°-60°)	5957.0	48.4			
FH (60°-80°)	3898.0	31.7			G2/5000
FVH (80°-90°)	55.2	0.4			G1/100
BL (0°-30°)	413.4	3.4	B1/500		
BM (30°-60°)	941.4	7.6	B1/1000		
BH (60°-80°)	289.0	2.3	B1/500		G1/500
BVH (80°-90°)	2.8	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°	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1
2.5°	1427.2	1437.1	1434.6	1432.1	1431.3	1433.0	1433.8	1433.0	1433.0	1433.0
5°	1399.9	1408.2	1408.2	1414.0	1422.2	1432.1	1439.6	1441.2	1442.9	1445.3
7.5°	1347.9	1354.5	1359.5	1378.5	1399.1	1425.5	1447.8	1459.4	1461.0	1470.1
10°	1312.4	1320.7	1329.0	1348.8	1378.5	1418.1	1456.1	1484.1	1488.3	1509.7
12.5°	1310.8	1319.0	1329.8	1351.2	1385.9	1428.0	1474.2	1514.7	1522.1	1553.5
15°	1328.1	1338.0	1347.9	1374.3	1411.5	1462.7	1512.2	1562.5	1570.0	1614.6
17.5°	1363.6	1376.8	1384.3	1410.7	1450.3	1507.2	1572.5	1630.2	1636.8	1688.8
20°	1433.8	1449.5	1451.9	1473.4	1512.2	1573.3	1650.9	1722.7	1730.9	1790.4
22.5°	1579.1	1601.3	1581.5	1592.3	1626.9	1688.0	1772.2	1863.0	1874.6	1942.2
25°	1834.9	1866.3	1815.1	1797.0	1811.8	1875.4	1981.0	2095.8	2109.0	2163.5
27.5°	2337.6	2297.2	2219.6	2143.7	2099.1	2135.4	2254.3	2396.2	2412.7	2465.6
30°	2889.8	2854.4	2749.5	2581.1	2475.5	2469.7	2579.5	2738.0	2757.0	2807.3
32.5°	3442.9	3409.0	3295.1	3088.0	2904.7	2813.9	2889.8	3065.7	3075.6	3107.8
35°	3986.9	3952.2	3838.3	3626.1	3400.8	3194.4	3179.6	3377.7	3381.0	3414.8
37.5°	4534.1	4505.2	4383.9	4175.9	3953.8	3669.1	3531.2	3673.2	3677.3	3710.3
40°	4924.5	4936.9	4853.6	4692.6	4501.9	4190.7	3925.8	3987.7	3962.9	4018.2
42.5°	5259.7	5284.4	5211.8	5130.9	5020.3	4746.3	4414.4	4403.7	4364.1	4393.8
45°	5549.4	5570.0	5504.8	5485.8	5483.4	5291.0	4948.5	4884.1	4828.8	4823.0
47.5°	5655.9	5695.5	5723.6	5787.1	5910.9	5830.0	5500.7	5400.8	5338.9	5293.5
50°	5696.3	5738.4	5834.2	6019.1	6312.1	6346.8	6050.4	5938.2	5862.2	5779.7
52.5°	5641.8	5717.0	5845.7	6156.9	6582.0	6761.1	6577.9	6479.7	6393.0	6258.4
55°	5320.8	5395.9	5659.2	6155.3	6716.6	7051.7	7076.5	7032.7	6935.3	6723.2
57.5°	4643.9	4755.3	5172.2	5945.6	6714.1	7301.8	7565.1	7596.5	7487.5	7183.8
60°	3706.2	3857.3	4365.7	5480.9	6506.9	7437.2	7993.5	8150.3	8034.8	7637.8
62.5°	2586.1	2761.1	3242.3	4752.9	6033.1	7339.8	8306.4	8596.1	8508.6	8043.9
65°	1577.4	1633.5	2021.5	3740.0	5227.5	6932.0	8402.9	8837.1	8808.2	8292.3
67.5°	1050.8	1097.8	1209.3	2564.6	4057.8	6117.3	8171.8	8795.0	8803.3	8251.9
70°	633.1	673.6	746.2	1491.6	2629.8	4842.0	7456.2	8258.5	8306.4	7711.2
72.5°	260.8	288.1	354.1	676.0	1362.0	3073.1	5937.4	7090.5	7201.9	6483.8
75°	147.8	161.8	208.0	339.3	591.0	1432.1	3596.4	5033.5	5197.8	4468.9
77.5°	98.2	104.8	134.5	219.6	332.7	488.7	1537.0	2622.4	2936.1	2440.8
80°	66.0	71.8	92.4	146.9	216.3	209.7	489.5	971.5	1195.2	838.6
82.5°	44.6	45.4	66.0	96.6	137.0	101.5	144.5	302.1	379.7	242.7
85°	25.6	24.8	48.7	56.1	61.1	42.1	43.7	90.8	118.9	102.4
87.5°	3.3	5.0	19.0	14.9	8.3	9.1	9.1	15.7	23.1	24.8
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°
1432.1	0°	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1	1432.1
1433.8	2.5°	1433.8	1433.0	1430.5	1428.0	1422.2	1418.9	1420.6	1418.9	1418.1	1418.9
1444.5	5°	1444.5	1442.0	1435.4	1427.2	1415.6	1401.6	1392.5	1379.3	1366.9	1359.5
1473.4	7.5°	1473.4	1470.9	1461.8	1438.7	1401.6	1343.0	1289.3	1242.3	1206.8	1186.2
1519.6	10°	1519.6	1515.5	1501.5	1450.3	1352.9	1224.9	1118.5	1030.1	972.4	945.1
1574.1	12.5°	1574.1	1569.2	1544.4	1439.6	1260.4	1060.7	913.8	815.5	761.9	737.9
1636.8	15°	1638.5	1631.9	1583.2	1388.4	1125.9	879.1	744.5	671.1	636.4	614.9
1716.9	17.5°	1718.6	1707.0	1612.1	1311.6	979.8	740.4	640.5	585.2	554.7	534.1
1821.7	20°	1822.6	1803.6	1635.2	1220.0	845.2	652.9	570.4	524.2	501.0	482.9
1970.3	22.5°	1967.8	1940.6	1663.3	1120.9	750.3	592.7	518.4	484.5	465.5	444.9
2177.5	25°	2147.8	2115.6	1697.9	1029.3	685.1	540.7	480.4	452.3	430.1	406.1
2449.1	27.5°	2399.5	2341.8	1739.2	954.2	629.0	496.1	445.7	414.4	388.8	369.0
2757.0	30°	2680.2	2585.3	1775.5	908.8	577.8	454.8	400.3	369.0	345.0	331.0
3033.5	32.5°	2946.0	2817.2	1799.4	889.0	531.6	407.8	350.8	317.0	298.8	294.7
3304.2	35°	3196.9	3026.9	1797.0	870.0	490.3	360.7	302.1	267.4	253.4	255.9
3595.6	37.5°	3485.8	3250.6	1779.6	840.3	456.5	317.8	260.0	229.5	217.1	217.9
3949.7	40°	3821.8	3508.9	1768.9	784.2	419.3	278.2	225.3	200.6	191.5	188.2
4322.8	42.5°	4180.0	3759.0	1770.6	720.6	373.1	242.7	201.4	180.8	172.5	170.0
4738.0	45°	4539.9	3997.6	1773.0	654.6	324.4	215.4	184.1	166.7	161.8	158.5
5159.0	47.5°	4878.3	4200.6	1726.8	583.6	276.5	194.8	170.0	158.5	154.4	150.2
5581.6	50°	5193.6	4336.0	1615.4	501.0	238.6	178.3	159.3	151.1	146.9	142.8
5964.6	52.5°	5438.8	4357.5	1431.3	416.0	212.1	165.9	152.7	145.3	140.3	136.2
6274.1	55°	5547.7	4222.9	1169.6	336.8	191.5	155.2	146.1	138.7	132.9	128.8
6517.6	57.5°	5519.7	3939.8	912.1	270.7	171.7	144.5	137.8	132.9	126.3	119.7
6714.9	60°	5381.8	3560.9	687.6	225.3	153.5	132.9	128.8	124.6	115.6	105.7
6790.9	62.5°	5143.3	3084.7	490.3	186.5	133.7	119.7	118.0	114.7	101.5	83.4
6678.6	65°	4778.4	2506.0	330.2	155.2	114.7	104.8	105.7	99.9	82.5	61.9
6267.5	67.5°	4245.2	1832.5	211.3	127.1	95.8	87.5	88.3	85.0	70.2	52.8
5488.3	70°	3565.9	1213.4	137.8	96.6	76.8	67.7	72.6	73.5	59.4	42.9
4212.2	72.5°	2614.2	716.5	96.6	71.8	56.1	47.0	59.4	61.1	47.9	32.2
2534.1	75°	1489.9	340.1	72.6	52.0	34.7	33.0	46.2	46.2	33.0	21.5
1097.0	77.5°	625.7	142.0	51.2	33.8	19.8	19.0	31.4	28.9	16.5	9.9
267.4	80°	180.8	63.6	27.2	16.5	8.3	7.4	12.4	9.1	4.1	1.7
101.5	82.5°	71.0	28.1	10.7	6.6	3.3	3.3	1.7	0.0	0.0	0.0
57.8	85°	42.1	11.6	5.0	2.5	0.8	0.0	0.0	0.0	0.0	0.0
12.4	87.5°	10.7	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>
1432.1
1422.2
1361.1
1187.0
942.6
735.5
615.8
532.4
479.6
441.6
403.6
364.8
328.5
297.2
255.9
221.2
187.4
169.2
158.5
150.2
142.8
135.4
127.9
118.9
104.0
81.7
60.3
50.4
41.3
30.5
19.8
9.9
1.7
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