

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: P946823

Luminaire Tested: **GALN-SB2B-835-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8046 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

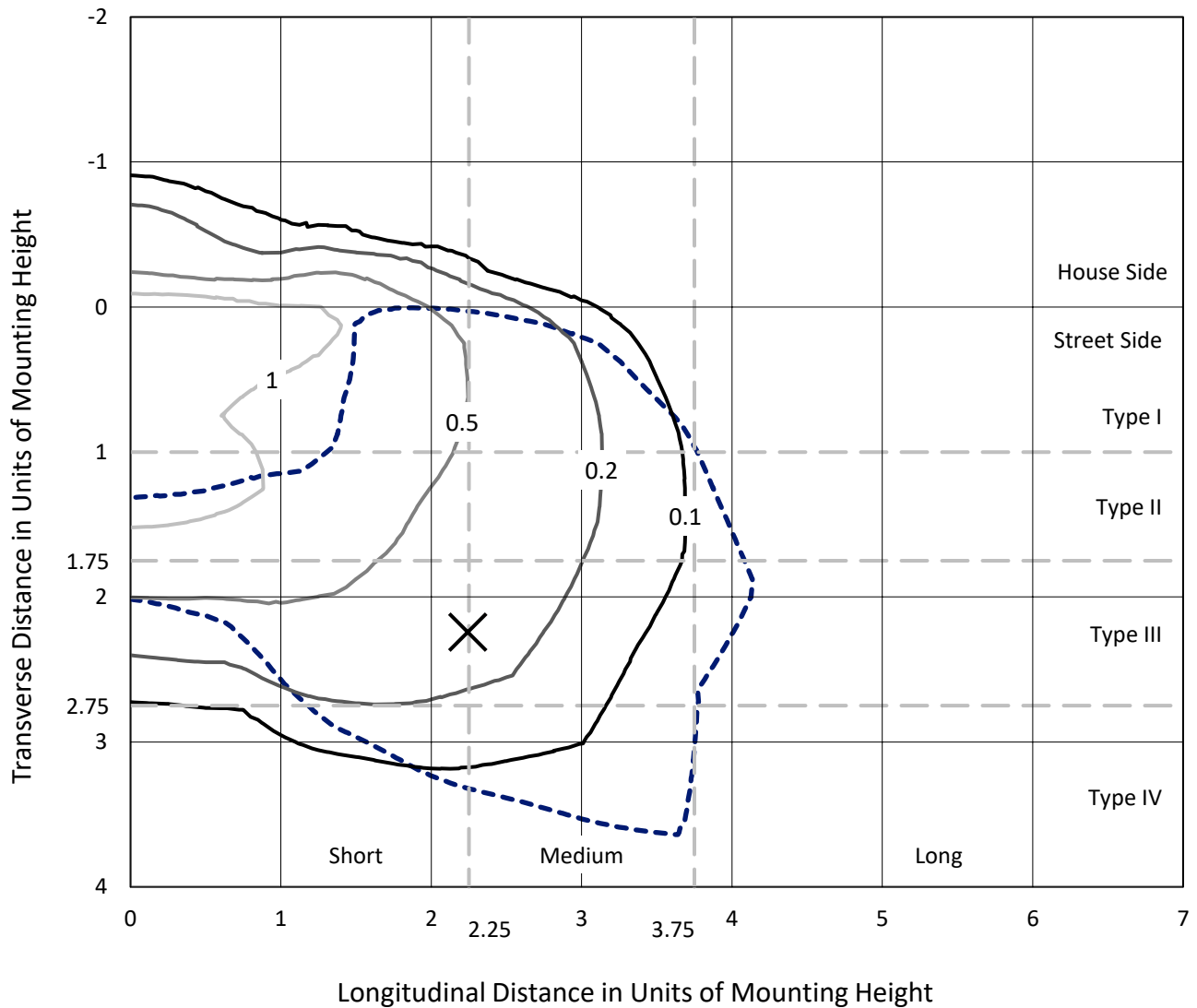
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

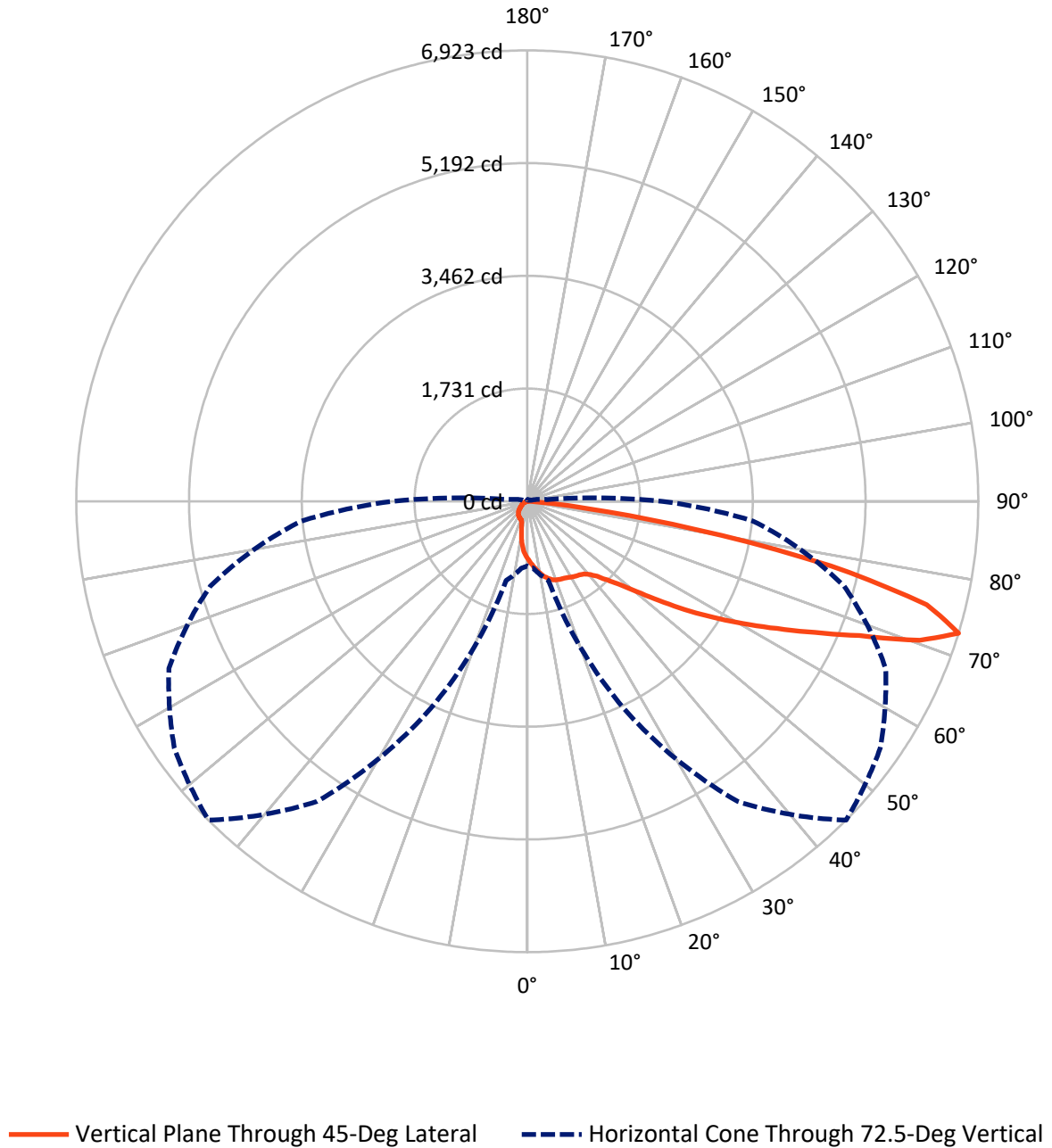
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	845.4	0.0	845.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	7200.6	0.0	7200.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	8046.0	0.0	8046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	1.0
10°-20°	242.7	3.0
20°-30°	398.6	5.0
30°-40°	565.3	7.0
40°-50°	934.4	11.6
50°-60°	1678.5	20.9
60°-70°	2330.7	29.0
70°-80°	1690.6	21.0
80°-90°	122.2	1.5
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°	8046.0	100.0
0°-180°	8046.0	100.0

Coefficient of Utilization



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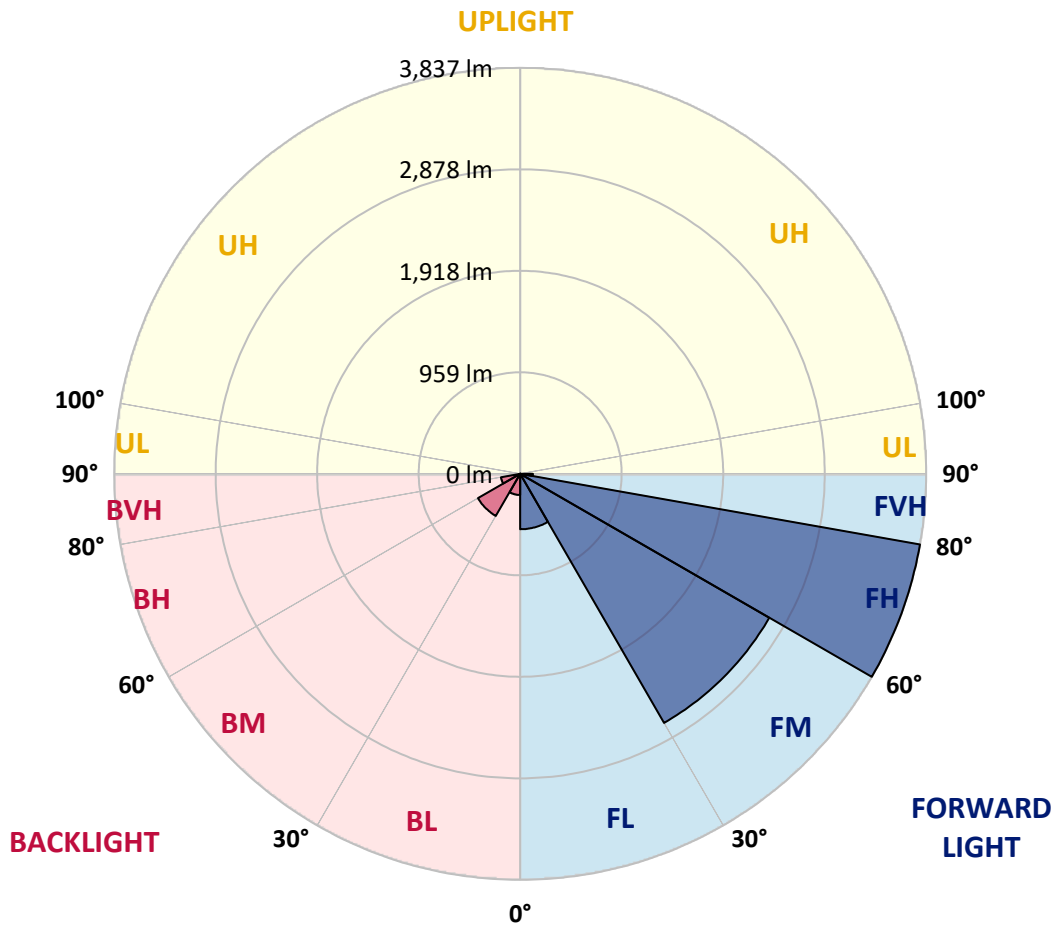
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	524.1	6.5			
FM (30°-60°)	2718.4	33.8			
FH (60°-80°)	3836.9	47.7			G2/5000
FVH (80°-90°)	121.2	1.5			G2/225
BL (0°-30°)	200.2	2.5	B1/500		
BM (30°-60°)	459.8	5.7	B1/1000		
BH (60°-80°)	184.4	2.3	B1/500		G1/500
BVH (80°-90°)	1.0	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5
2.5°	962.7	964.4	963.3	956.7	945.7	939.7	936.4	925.4	918.3	905.6
5°	1051.2	1057.7	1053.9	1040.7	1019.9	1005.0	1000.6	978.1	957.8	934.2
7.5°	1145.1	1148.4	1141.2	1124.2	1096.2	1070.9	1067.1	1035.8	1003.4	967.1
10°	1226.4	1230.2	1219.2	1194.5	1162.6	1131.3	1125.8	1091.2	1052.8	1008.3
12.5°	1294.5	1298.3	1284.0	1254.4	1219.2	1186.8	1181.3	1145.1	1102.8	1053.4
15°	1346.1	1353.2	1334.0	1302.1	1264.2	1231.8	1229.1	1193.4	1152.2	1097.3
17.5°	1376.3	1383.4	1365.3	1326.9	1294.5	1267.0	1263.7	1234.0	1195.6	1142.9
20°	1381.2	1387.8	1368.6	1335.1	1308.2	1286.2	1284.6	1263.1	1235.1	1184.6
22.5°	1366.4	1374.6	1357.1	1330.1	1311.5	1299.9	1297.7	1285.7	1269.7	1226.9
25°	1351.0	1357.6	1344.4	1320.8	1310.9	1309.8	1311.5	1309.3	1306.0	1269.7
27.5°	1349.9	1357.1	1342.2	1319.7	1314.2	1325.8	1327.4	1337.8	1340.6	1308.7
30°	1359.3	1364.2	1349.9	1326.3	1323.6	1349.9	1350.5	1369.1	1373.5	1341.7
32.5°	1379.6	1385.1	1370.8	1336.2	1332.3	1369.1	1370.8	1395.5	1402.6	1376.8
35°	1427.4	1433.9	1417.5	1363.6	1349.9	1387.3	1392.2	1421.3	1435.6	1414.2
37.5°	1546.5	1527.3	1504.8	1419.1	1390.0	1415.8	1424.1	1458.1	1483.4	1458.7
40°	1842.5	1782.1	1711.8	1513.6	1460.3	1476.8	1483.4	1517.4	1552.0	1527.9
42.5°	2286.8	2215.4	2102.3	1731.1	1566.3	1574.5	1579.5	1609.1	1658.0	1638.8
45°	2682.8	2657.0	2541.7	2102.3	1764.6	1723.9	1730.0	1745.3	1817.3	1810.1
47.5°	2987.1	2972.2	2883.3	2528.5	2099.6	1906.8	1923.8	1931.0	2034.8	2060.0
50°	3221.0	3215.5	3135.9	2907.4	2537.3	2176.5	2182.5	2167.1	2322.5	2385.1
52.5°	3441.8	3460.5	3401.7	3259.5	3004.6	2529.6	2528.5	2456.0	2665.8	2760.2
55°	3641.2	3647.7	3653.8	3618.6	3474.8	2931.6	2921.2	2802.5	3064.0	3161.7
57.5°	3828.4	3831.2	3885.0	3956.9	3964.1	3363.3	3344.0	3201.8	3498.9	3568.7
60°	3954.2	3966.8	4080.5	4280.4	4367.7	3808.7	3798.2	3653.2	3941.6	3974.0
62.5°	3773.0	3849.9	4136.5	4533.0	4748.9	4302.4	4297.4	4161.2	4407.3	4380.9
65°	3054.1	3184.2	3688.4	4703.8	5122.9	4853.8	4860.9	4715.9	4885.6	4800.0
67.5°	2136.4	2273.7	2870.1	4717.6	5540.8	5501.3	5542.5	5315.1	5393.6	5201.4
70°	1477.3	1548.2	1936.5	4422.1	5866.5	6393.2	6392.1	6051.0	5898.9	5384.3
72.5°	993.5	1030.3	1257.7	3508.3	5627.0	6923.1	6891.3	6613.4	6069.1	5035.6
75°	419.0	445.9	582.1	1971.6	4451.8	6333.9	6247.6	5844.5	5392.5	3965.2
77.5°	132.9	144.4	229.6	705.7	2452.2	4761.0	4669.8	3649.9	3614.2	1989.2
80°	63.2	73.6	129.1	283.4	964.9	2589.4	2576.8	1655.8	1554.8	537.1
82.5°	27.5	32.4	71.4	151.6	431.7	923.7	942.4	563.5	466.3	203.8
85°	8.8	11.5	33.0	69.7	182.3	229.6	226.8	134.0	187.8	110.9
87.5°	0.0	0.0	11.0	15.9	18.7	13.2	14.8	11.5	52.2	30.8
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°
881.5	0°	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5
892.4	2.5°	885.8	877.1	861.7	847.4	834.8	822.1	814.5	803.5	802.4	802.4
906.7	5°	891.9	877.6	850.2	821.0	787.5	755.7	723.8	693.1	683.2	676.1
929.8	7.5°	909.5	886.9	843.6	788.1	724.4	654.6	605.8	553.0	532.7	521.7
960.5	10°	934.7	904.0	838.1	740.9	637.6	542.6	472.9	415.7	393.8	384.4
994.0	12.5°	962.7	924.8	828.2	682.1	542.6	428.9	360.8	334.5	331.2	331.2
1034.1	15°	996.2	950.1	811.2	612.9	443.2	339.4	315.2	316.3	319.6	321.8
1073.1	17.5°	1030.8	977.0	784.2	535.5	355.3	305.4	305.9	307.5	310.3	312.5
1115.4	20°	1068.2	1003.9	748.6	453.1	304.8	295.5	297.1	298.8	301.0	302.1
1155.0	22.5°	1108.3	1029.2	706.3	372.4	287.8	287.2	287.8	289.4	292.2	292.2
1201.1	25°	1151.1	1057.2	657.9	313.6	279.0	279.0	280.1	281.2	283.4	283.4
1245.6	27.5°	1195.0	1083.0	606.9	282.8	271.3	270.8	270.8	272.4	273.5	274.0
1289.5	30°	1243.4	1113.2	555.8	276.2	265.3	262.5	260.9	262.0	263.1	263.6
1335.6	32.5°	1292.8	1142.3	510.2	279.0	259.2	254.3	248.8	247.7	247.7	249.9
1383.4	35°	1347.7	1174.2	475.1	288.3	255.9	242.2	233.4	228.5	229.0	232.3
1440.5	37.5°	1413.6	1212.6	449.2	296.6	253.7	228.5	214.2	208.1	204.3	208.1
1519.1	40°	1499.8	1269.2	430.6	303.2	251.0	212.5	193.3	183.4	176.3	178.5
1641.0	42.5°	1626.7	1358.2	423.4	303.7	244.9	193.9	171.9	158.7	148.3	148.8
1824.4	45°	1804.7	1498.8	460.2	296.6	231.8	173.5	149.4	131.8	125.2	123.6
2098.5	47.5°	2048.5	1703.6	545.3	281.7	212.5	153.8	127.4	112.6	107.6	104.9
2458.2	50°	2375.3	1966.7	639.8	265.3	193.3	135.1	109.3	100.0	96.7	93.9
2884.9	52.5°	2754.2	2233.6	717.2	248.8	174.1	118.6	97.8	92.3	89.5	87.3
3296.8	55°	3101.8	2417.6	712.9	231.2	155.4	105.4	89.5	86.2	82.9	80.7
3651.6	57.5°	3318.2	2443.4	587.6	212.0	134.0	95.0	81.8	79.6	75.8	73.0
3958.6	60°	3417.6	2296.2	411.9	186.7	112.6	85.1	73.6	72.5	67.6	63.7
4249.1	62.5°	3435.8	2022.7	274.6	155.4	93.9	75.8	65.4	63.7	57.1	50.5
4485.3	65°	3362.2	1631.7	190.0	121.4	80.2	65.9	56.0	52.7	45.6	39.0
4541.3	67.5°	3129.3	1145.6	132.4	87.3	68.1	52.2	44.5	43.4	37.9	32.4
4255.7	70°	2702.6	653.0	88.4	65.4	53.8	35.7	35.1	36.2	30.8	26.4
3476.9	72.5°	2072.1	298.8	54.9	47.8	36.8	24.2	28.0	28.6	23.6	19.8
2169.3	75°	1219.8	128.0	34.6	30.8	18.7	15.9	20.3	20.9	15.9	12.6
793.0	77.5°	415.2	48.3	22.0	18.1	9.3	8.8	13.2	13.2	8.8	4.9
159.3	80°	94.5	18.1	11.0	7.1	4.4	3.8	4.4	3.8	2.2	0.5
48.9	82.5°	26.9	7.1	4.4	2.7	1.6	1.6	0.5	0.0	0.0	0.0
17.0	85°	7.7	3.3	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
6.0	87.5°	3.3	0.5	0.0	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>
881.5
805.1
679.4
523.4
384.4
331.2
321.8
312.5
302.6
293.3
283.9
274.6
264.7
251.5
234.0
207.0
177.4
146.6
121.4
103.2
93.4
86.8
79.6
72.5
62.6
47.2
36.8
30.8
24.2
17.6
11.0
3.8
0.0
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