

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: P940028

Luminaire Tested: **GALN-SB2D-927-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-927-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9379 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

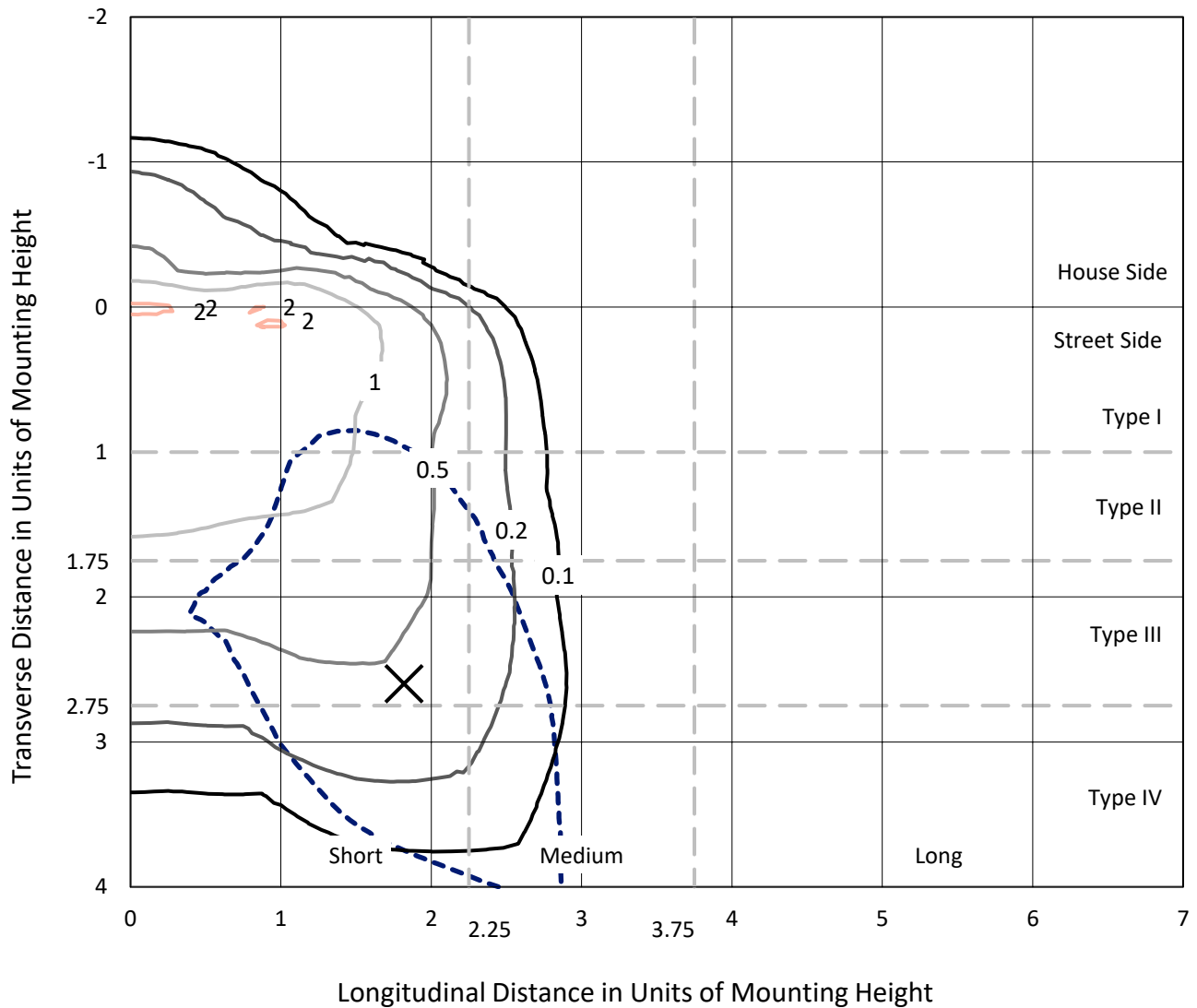
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SB2D-927-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

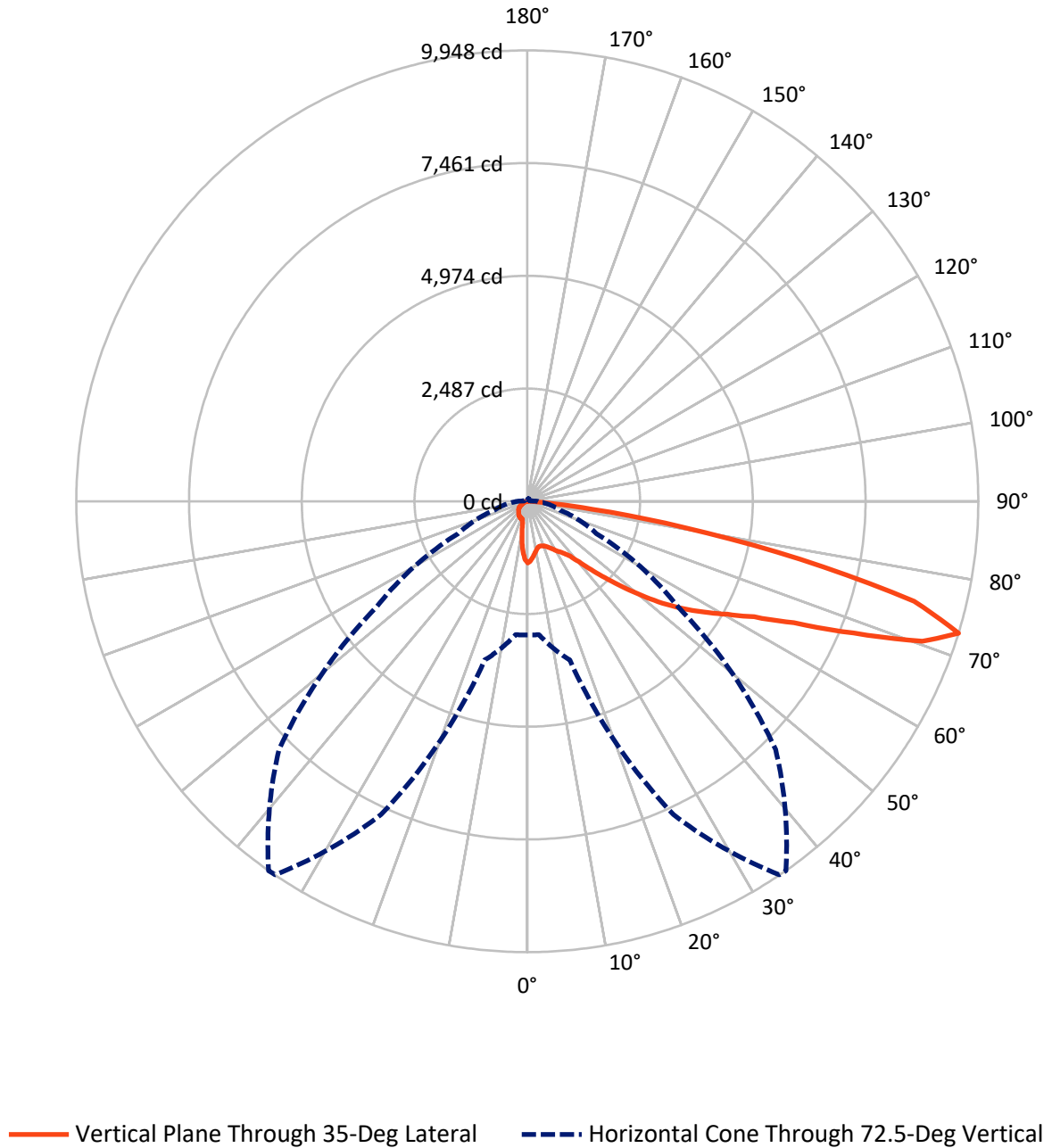
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P940028
CATALOG NUMBER: GALN-SB2D-927-U-T4FT-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1055.6	0.0	1055.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	8323.4	0.0	8323.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	9379.0	0.0	9379.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	1.2
10°-20°	261.3	2.8
20°-30°	424.5	4.5
30°-40°	708.3	7.6
40°-50°	1340.0	14.3
50°-60°	2129.3	22.7
60°-70°	2634.1	28.1
70°-80°	1637.4	17.5
80°-90°	132.3	1.4
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°	9379.0	100.0
0°-180°	9379.0	100.0

Coefficient of Utilization



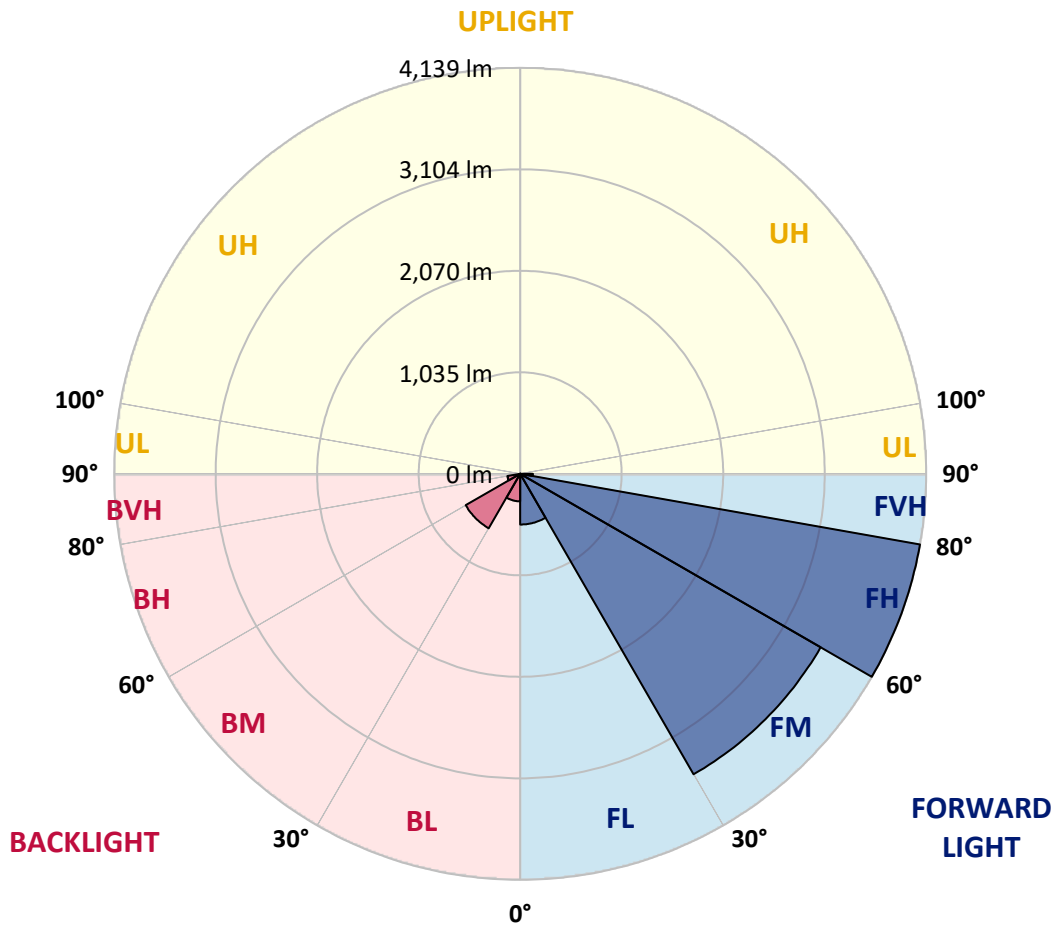
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	517.0	5.5			
FM	(30°-60°)	3536.8	37.7			
FH	(60°-80°)	4139.1	44.1			G2/5000
FVH	(80°-90°)	130.5	1.4			G2/225
BL	(0°-30°)	280.5	3.0	B1/500		
BM	(30°-60°)	640.8	6.8	B1/1000		
BH	(60°-80°)	132.5	1.4	B1/500		G1/500
BVH	(80°-90°)	1.8	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	1359.3	1359.3	1359.3	1359.3	1359.3	1359.3	1359.3	1359.3	1359.3	1359.3
2.5°	1298.9	1309.9	1311.9	1315.3	1315.3	1319.5	1326.3	1336.0	1351.8	1360.0
5°	1197.1	1205.4	1215.7	1223.9	1239.8	1241.8	1268.6	1294.7	1331.2	1358.6
7.5°	1094.7	1104.4	1118.1	1138.0	1158.7	1164.8	1205.4	1249.4	1307.1	1358.6
10°	1022.6	1023.3	1035.6	1055.6	1088.6	1096.1	1145.6	1208.1	1280.3	1350.4
12.5°	982.0	986.9	992.4	1007.5	1039.1	1043.9	1096.8	1170.3	1253.5	1345.6
15°	982.0	985.5	988.9	996.5	1021.9	1026.0	1072.8	1146.3	1239.8	1347.6
17.5°	992.4	997.9	995.1	1004.0	1030.8	1033.6	1074.8	1139.4	1239.1	1360.7
20°	1017.1	1021.2	1015.7	1021.2	1048.0	1053.5	1096.1	1152.5	1250.7	1383.4
22.5°	1056.3	1058.3	1045.3	1049.4	1076.9	1083.8	1133.2	1189.6	1278.9	1419.8
25°	1105.7	1109.9	1089.9	1094.7	1120.9	1129.1	1186.2	1245.3	1323.6	1470.0
27.5°	1162.8	1164.8	1147.7	1147.0	1180.7	1192.3	1250.1	1314.0	1383.4	1533.2
30°	1228.1	1234.3	1217.8	1215.0	1257.6	1267.2	1324.3	1398.5	1471.3	1628.0
32.5°	1279.6	1284.4	1274.8	1281.7	1325.0	1332.5	1414.3	1518.1	1609.5	1762.7
35°	1353.8	1356.6	1334.6	1347.0	1396.4	1415.7	1537.3	1685.8	1783.3	1931.8
37.5°	1622.5	1622.5	1529.1	1467.9	1515.3	1532.5	1705.7	1896.7	1997.8	2158.6
40°	1994.3	1988.1	1851.4	1726.3	1720.1	1753.8	1945.5	2162.7	2274.7	2430.7
42.5°	2390.9	2381.2	2195.0	2071.3	2050.7	2062.4	2222.5	2490.5	2604.6	2762.6
45°	2742.7	2740.0	2569.5	2403.2	2366.1	2403.2	2568.2	2874.0	2955.8	3122.1
47.5°	3037.5	3037.5	2913.1	2804.6	2785.3	2807.3	3036.2	3299.4	3291.8	3504.8
50°	3377.0	3374.3	3256.1	3209.3	3229.3	3260.2	3574.9	3747.4	3639.5	3880.8
52.5°	3614.8	3631.3	3590.8	3583.2	3684.9	3738.5	4122.0	4185.9	3950.9	4237.4
55°	3803.1	3822.3	3869.1	3922.0	4117.9	4188.0	4651.8	4601.7	4211.3	4546.7
57.5°	4069.7	4042.3	4114.4	4218.9	4535.7	4620.2	5165.2	4994.1	4420.9	4797.5
60°	4393.4	4397.6	4409.9	4541.9	4952.8	5061.4	5671.0	5365.2	4555.6	4951.5
62.5°	4782.4	4788.6	4814.0	5016.7	5512.9	5615.3	6209.8	5668.9	4617.5	4908.2
65°	4755.6	4781.7	5065.5	5758.9	6364.4	6465.4	6838.6	5882.0	4524.0	4512.3
67.5°	4332.3	4374.9	4849.7	6645.5	7648.1	7760.8	7598.6	5923.9	4120.6	3509.0
70°	3777.0	3792.1	4363.2	7442.6	9134.6	9248.7	8279.0	5462.8	3126.9	1957.2
72.5°	2949.6	2953.0	3623.1	7627.5	9941.4	9947.6	7745.0	4055.3	1681.6	751.8
75°	2107.0	2086.4	2426.6	6185.7	8746.3	8816.4	5806.4	1902.2	642.6	355.3
77.5°	1129.8	1152.5	1373.1	3668.4	6042.1	6161.7	3168.1	548.4	327.1	241.9
80°	349.1	368.4	562.8	1679.6	3422.4	3494.5	1174.5	244.0	228.2	172.5
82.5°	110.0	114.1	262.5	705.8	1420.5	1453.5	340.2	138.1	156.0	114.1
85°	31.6	32.3	116.8	263.2	351.2	358.0	95.5	53.6	89.3	70.8
87.5°	3.4	11.0	44.0	44.0	30.9	30.2	10.3	11.7	25.4	8.9
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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 CATALOG NUMBER: GALN-SB2D-927-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1359.3	0°	1359.3	1359.3	1359.3	1359.3	1359.3	1359.3	1359.3	1359.3	1359.3	1359.3
1365.5	2.5°	1362.1	1362.8	1353.8	1338.7	1322.2	1308.5	1291.3	1277.6	1267.9	1265.2
1377.9	5°	1371.7	1366.9	1341.5	1295.4	1240.4	1193.0	1140.1	1098.2	1070.7	1059.0
1390.9	7.5°	1386.1	1372.4	1316.7	1226.0	1120.9	1027.4	932.6	859.0	812.3	788.9
1403.3	10°	1398.5	1371.0	1275.5	1125.7	964.9	823.3	695.5	606.8	557.3	534.0
1417.7	12.5°	1410.2	1370.3	1221.9	1006.8	788.9	615.8	496.9	452.9	439.1	434.3
1441.1	15°	1432.2	1372.4	1154.5	870.7	613.7	465.3	422.0	421.3	424.0	422.6
1476.8	17.5°	1462.4	1374.5	1078.3	726.4	473.5	410.3	408.2	414.4	418.5	416.5
1521.5	20°	1501.6	1382.7	997.2	583.5	406.8	396.5	401.3	406.8	410.3	406.8
1581.3	22.5°	1556.6	1397.1	908.5	468.7	385.5	388.3	392.4	398.6	402.0	397.2
1657.6	25°	1623.9	1419.8	821.2	407.5	375.2	378.7	384.8	391.7	395.8	391.0
1753.8	27.5°	1711.2	1456.2	740.8	393.8	364.9	367.0	375.9	386.2	391.7	385.5
1890.6	30°	1837.6	1516.0	671.4	400.0	358.7	353.9	366.3	380.7	386.9	381.4
2076.8	32.5°	2005.3	1600.5	628.8	409.6	356.0	338.8	350.5	369.0	379.3	375.9
2320.1	35°	2225.2	1729.1	612.3	420.6	353.9	323.0	331.2	351.2	369.0	372.5
2626.6	37.5°	2491.9	1907.7	617.1	425.4	347.7	309.9	314.1	331.2	354.6	365.6
2971.6	40°	2794.9	2116.0	644.6	420.6	340.9	298.9	299.6	312.7	333.3	349.8
3342.7	42.5°	3107.6	2359.2	695.5	402.7	334.7	289.3	287.3	296.2	309.9	321.6
3713.1	45°	3405.2	2609.4	745.6	378.0	327.1	279.7	274.9	278.3	281.1	285.9
4073.9	47.5°	3665.0	2785.3	731.2	355.3	316.8	268.7	260.5	259.1	250.8	250.1
4396.2	50°	3844.3	2823.8	649.4	332.6	301.7	256.3	243.3	235.0	220.6	213.7
4637.4	52.5°	3901.4	2671.9	530.5	309.9	277.0	239.8	221.3	208.2	190.4	184.2
4776.2	55°	3825.8	2374.4	424.0	282.4	242.6	217.9	197.2	180.1	165.6	158.1
4791.3	57.5°	3640.9	1995.7	335.4	250.1	206.2	193.1	172.5	155.3	142.9	135.4
4623.7	60°	3334.4	1584.7	265.3	211.7	175.9	166.3	145.0	134.0	123.0	114.1
4190.7	62.5°	2869.2	1131.2	208.2	167.7	147.1	136.1	123.7	115.5	102.4	90.0
3412.1	65°	2239.0	692.0	160.8	123.0	118.2	112.7	105.1	97.6	81.8	69.4
2225.9	67.5°	1412.2	327.8	114.8	92.8	93.5	90.7	87.3	81.1	69.4	58.4
997.2	70°	621.9	158.7	75.6	70.8	69.4	69.4	72.2	70.1	59.1	48.8
346.4	72.5°	211.7	85.2	56.4	53.6	50.2	49.5	60.5	58.4	47.4	37.8
172.5	75°	110.6	57.0	41.2	38.5	30.2	36.4	48.1	45.4	33.7	24.7
114.1	77.5°	72.2	40.5	28.2	24.7	17.2	24.1	35.7	31.6	19.9	12.4
74.9	80°	45.4	26.8	16.5	11.7	8.2	13.1	19.2	13.7	7.6	2.7
44.0	82.5°	24.1	13.7	6.2	4.1	3.4	4.1	4.8	3.4	1.4	0.0
22.7	85°	9.6	4.8	2.1	1.4	0.7	0.0	1.4	0.7	0.0	0.0
4.1	87.5°	3.4	0.7	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>
1359.3
1270.0
1063.1
792.4
534.7
433.0
422.0
415.8
406.2
396.5
390.3
385.5
380.7
375.9
372.5
368.4
355.3
326.4
288.6
249.5
214.4
183.5
158.1
134.0
112.0
88.0
67.3
57.0
46.7
35.7
22.7
11.0
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