

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: P939598

Luminaire Tested: **GALN-SB2B-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939598
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-SB2B-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA 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: 8526 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

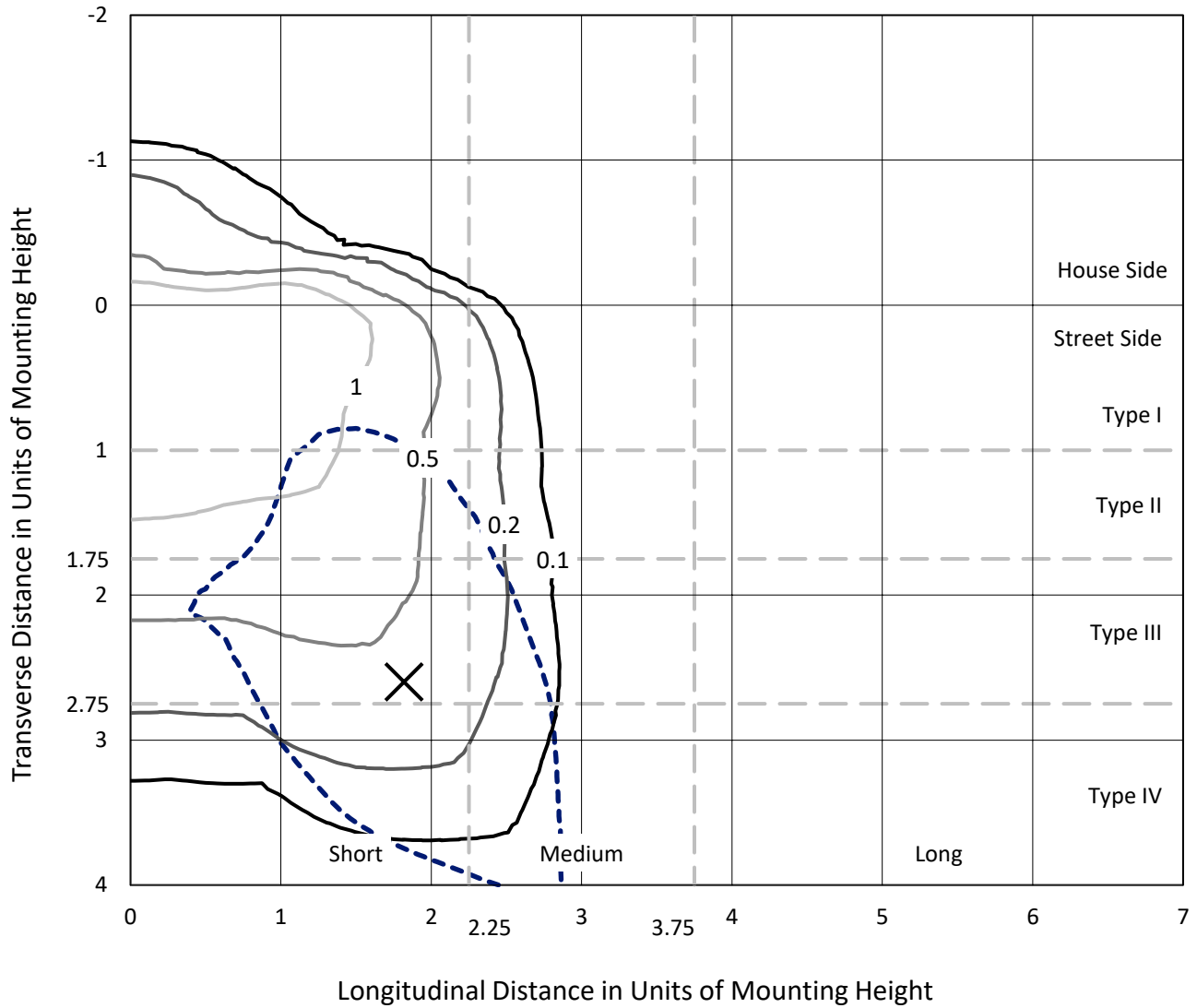
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

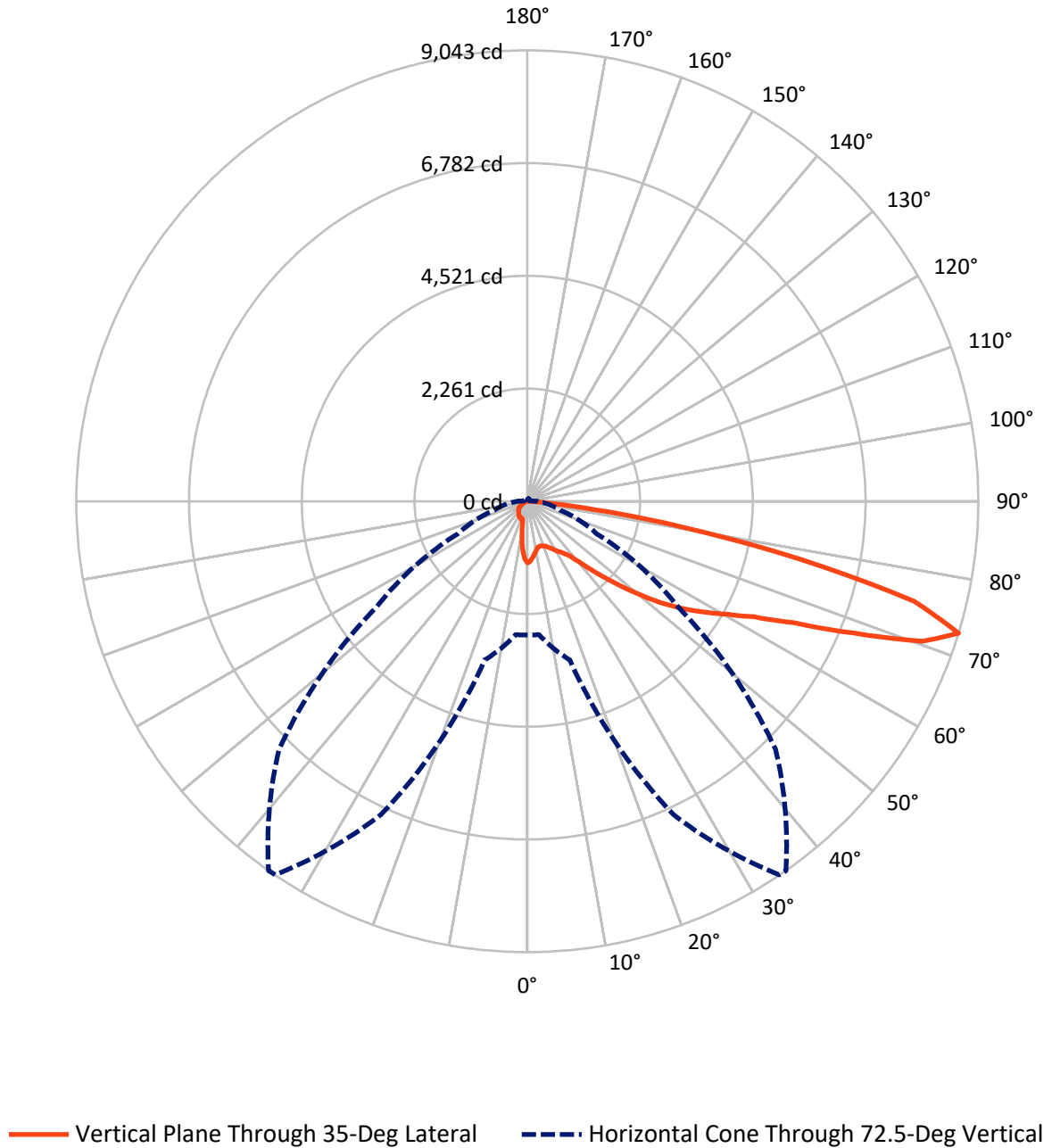
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	959.6	0.0	959.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	7566.4	0.0	7566.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	8526.0	0.0	8526.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	1.2
10°-20°	237.5	2.8
20°-30°	385.9	4.5
30°-40°	643.8	7.6
40°-50°	1218.2	14.3
50°-60°	1935.7	22.7
60°-70°	2394.6	28.1
70°-80°	1488.5	17.5
80°-90°	120.3	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°	8526.0	100.0
0°-180°	8526.0	100.0

Coefficient of Utilization



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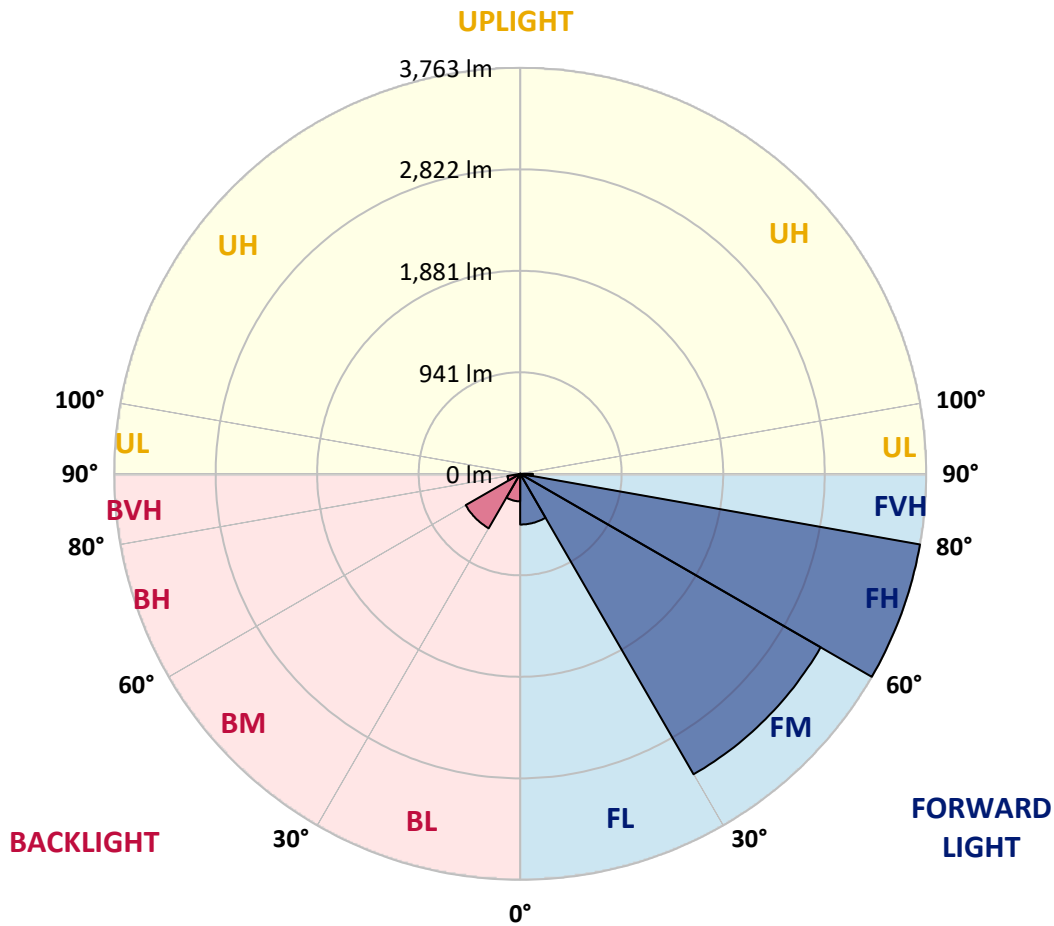
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	470.0	5.5			
FM (30°-60°)	3215.2	37.7			
FH (60°-80°)	3762.6	44.1			G2/5000
FVH (80°-90°)	118.7	1.4			G2/225
BL (0°-30°)	255.0	3.0	B1/500		
BM (30°-60°)	582.5	6.8	B1/1000		
BH (60°-80°)	120.4	1.4	B1/500		G1/500
BVH (80°-90°)	1.6	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	1235.7	1235.7	1235.7	1235.7	1235.7	1235.7	1235.7	1235.7	1235.7	1235.7
2.5°	1180.7	1190.7	1192.6	1195.7	1195.7	1199.5	1205.7	1214.5	1228.8	1236.3
5°	1088.3	1095.8	1105.1	1112.6	1127.0	1128.9	1153.2	1177.0	1210.1	1235.1
7.5°	995.2	1003.9	1016.4	1034.5	1053.3	1058.9	1095.8	1135.7	1188.2	1235.1
10°	929.6	930.2	941.5	959.6	989.6	996.4	1041.4	1098.3	1163.9	1227.6
12.5°	892.7	897.1	902.1	915.8	944.6	949.0	997.1	1063.9	1139.5	1223.2
15°	892.7	895.9	899.0	905.8	929.0	932.7	975.2	1042.0	1127.0	1225.1
17.5°	902.1	907.1	904.6	912.7	937.1	939.6	977.1	1035.8	1126.4	1237.0
20°	924.6	928.3	923.3	928.3	952.7	957.7	996.4	1047.7	1137.0	1257.6
22.5°	960.2	962.1	950.2	954.0	978.9	985.2	1030.2	1081.4	1162.6	1290.7
25°	1005.2	1008.9	990.8	995.2	1018.9	1026.4	1078.3	1132.0	1203.2	1336.3
27.5°	1057.0	1058.9	1043.3	1042.7	1073.3	1083.9	1136.4	1194.5	1257.6	1393.8
30°	1116.4	1122.0	1107.0	1104.5	1143.2	1152.0	1203.8	1271.3	1337.5	1480.0
32.5°	1163.2	1167.6	1158.9	1165.1	1204.5	1211.3	1285.7	1380.0	1463.1	1602.4
35°	1230.7	1233.2	1213.2	1224.5	1269.4	1286.9	1397.5	1532.4	1621.2	1756.1
37.5°	1475.0	1475.0	1390.0	1334.4	1377.5	1393.1	1550.6	1724.2	1816.1	1962.3
40°	1812.9	1807.3	1683.0	1569.3	1563.7	1594.3	1768.6	1966.0	2067.8	2209.6
42.5°	2173.4	2164.7	1995.4	1882.9	1864.2	1874.8	2020.4	2264.0	2367.7	2511.4
45°	2493.3	2490.8	2335.8	2184.7	2150.9	2184.7	2334.6	2612.6	2686.9	2838.1
47.5°	2761.3	2761.3	2648.2	2549.5	2532.0	2552.0	2760.0	2999.3	2992.4	3186.1
50°	3069.9	3067.4	2959.9	2917.5	2935.6	2963.7	3249.8	3406.6	3308.5	3527.8
52.5°	3286.0	3301.0	3264.2	3257.3	3349.8	3398.5	3747.1	3805.2	3591.5	3852.0
55°	3457.2	3474.7	3517.2	3565.3	3743.3	3807.1	4228.8	4183.1	3828.3	4133.2
57.5°	3699.6	3674.6	3740.2	3835.2	4123.2	4200.0	4695.4	4539.9	4018.8	4361.2
60°	3993.9	3997.6	4008.9	4128.8	4502.4	4601.1	5155.2	4877.2	4141.3	4501.1
62.5°	4347.5	4353.1	4376.2	4560.5	5011.5	5104.6	5645.0	5153.3	4197.5	4461.8
65°	4323.1	4346.8	4604.8	5235.2	5785.6	5877.4	6216.6	5347.0	4112.6	4101.9
67.5°	3938.3	3977.0	4408.7	6041.1	6952.5	7055.0	6907.6	5385.1	3745.8	3189.8
70°	3433.5	3447.2	3966.4	6765.8	8303.8	8407.5	7526.0	4965.9	2842.5	1779.2
72.5°	2681.3	2684.4	3293.5	6933.8	9037.3	9042.9	7040.6	3686.5	1528.7	683.4
75°	1915.4	1896.7	2205.9	5623.1	7950.9	8014.6	5278.3	1729.2	584.1	323.0
77.5°	1027.0	1047.7	1248.2	3334.8	5492.6	5601.3	2880.0	498.5	297.4	219.9
80°	317.4	334.9	511.6	1526.8	3111.1	3176.7	1067.7	221.8	207.4	156.8
82.5°	100.0	103.7	238.6	641.6	1291.3	1321.3	309.2	125.6	141.8	103.7
85°	28.7	29.4	106.2	239.3	319.2	325.5	86.8	48.7	81.2	64.3
87.5°	3.1	10.0	40.0	40.0	28.1	27.5	9.4	10.6	23.1	8.1
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°
1235.7	0°	1235.7	1235.7	1235.7	1235.7	1235.7	1235.7	1235.7	1235.7	1235.7	1235.7
1241.3	2.5°	1238.2	1238.8	1230.7	1217.0	1202.0	1189.5	1173.9	1161.4	1152.6	1150.1
1252.6	5°	1246.9	1242.6	1219.5	1177.6	1127.6	1084.5	1036.4	998.3	973.3	962.7
1264.4	7.5°	1260.1	1247.6	1197.0	1114.5	1018.9	934.0	847.7	780.9	738.4	717.2
1275.7	10°	1271.3	1246.3	1159.5	1023.3	877.1	748.4	632.2	551.6	506.7	485.4
1288.8	12.5°	1281.9	1245.7	1110.8	915.2	717.2	559.8	451.7	411.7	399.2	394.8
1310.0	15°	1301.9	1247.6	1049.5	791.5	557.9	422.9	383.6	383.0	385.5	384.2
1342.5	17.5°	1329.4	1249.4	980.2	660.3	430.4	373.0	371.1	376.7	380.5	378.6
1383.1	20°	1365.0	1256.9	906.5	530.4	369.8	360.5	364.8	369.8	373.0	369.8
1437.5	22.5°	1415.0	1270.1	825.9	426.1	350.5	353.0	356.7	362.3	365.5	361.1
1506.8	25°	1476.2	1290.7	746.5	370.5	341.1	344.2	349.8	356.1	359.8	355.5
1594.3	27.5°	1555.6	1323.8	673.5	358.0	331.7	333.6	341.7	351.1	356.1	350.5
1718.6	30°	1670.5	1378.1	610.4	363.6	326.1	321.7	333.0	346.1	351.7	346.7
1887.9	32.5°	1822.9	1455.0	571.6	372.3	323.6	308.0	318.6	335.5	344.8	341.7
2109.1	35°	2022.9	1571.8	556.6	382.3	321.7	293.6	301.1	319.2	335.5	338.6
2387.7	37.5°	2265.2	1734.2	561.0	386.7	316.1	281.8	285.5	301.1	322.4	332.4
2701.3	40°	2540.8	1923.5	586.0	382.3	309.9	271.8	272.4	284.2	303.0	318.0
3038.7	42.5°	2825.0	2144.7	632.2	366.1	304.2	263.0	261.1	269.3	281.8	292.4
3375.4	45°	3095.5	2372.1	677.8	343.6	297.4	254.3	249.9	253.0	255.5	259.9
3703.4	47.5°	3331.7	2532.0	664.7	323.0	288.0	244.3	236.8	235.5	228.0	227.4
3996.4	50°	3494.7	2567.0	590.4	302.4	274.3	233.0	221.2	213.7	200.5	194.3
4215.6	52.5°	3546.6	2428.9	482.3	281.8	251.8	218.0	201.2	189.3	173.0	167.4
4341.8	55°	3477.8	2158.4	385.5	256.8	220.5	198.0	179.3	163.7	150.6	143.7
4355.6	57.5°	3309.8	1814.2	304.9	227.4	187.4	175.5	156.8	141.2	129.9	123.1
4203.1	60°	3031.2	1440.6	241.1	192.4	159.9	151.2	131.8	121.8	111.8	103.7
3809.6	62.5°	2608.2	1028.3	189.3	152.4	133.7	123.7	112.5	105.0	93.1	81.8
3101.8	65°	2035.3	629.1	146.2	111.8	107.5	102.5	95.6	88.7	74.3	63.1
2023.5	67.5°	1283.8	298.0	104.3	84.3	85.0	82.5	79.3	73.7	63.1	53.1
906.5	70°	565.4	144.3	68.7	64.3	63.1	63.1	65.6	63.7	53.7	44.4
314.9	72.5°	192.4	77.5	51.2	48.7	45.6	45.0	55.0	53.1	43.1	34.4
156.8	75°	100.6	51.9	37.5	35.0	27.5	33.1	43.7	41.2	30.6	22.5
103.7	77.5°	65.6	36.9	25.6	22.5	15.6	21.9	32.5	28.7	18.1	11.2
68.1	80°	41.2	24.4	15.0	10.6	7.5	11.9	17.5	12.5	6.9	2.5
40.0	82.5°	21.9	12.5	5.6	3.7	3.1	3.7	4.4	3.1	1.2	0.0
20.6	85°	8.7	4.4	1.9	1.2	0.6	0.0	1.2	0.6	0.0	0.0
3.7	87.5°	3.1	0.6	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>
1235.7
1154.5
966.4
720.3
486.0
393.6
383.6
378.0
369.2
360.5
354.8
350.5
346.1
341.7
338.6
334.9
323.0
296.7
262.4
226.8
194.9
166.8
143.7
121.8
101.8
80.0
61.2
51.9
42.5
32.5
20.6
10.0
1.9
0.0
0.0
0.0
0.0

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