

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: P939608

Luminaire Tested: **GALN-SB2B-740-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939608  
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-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

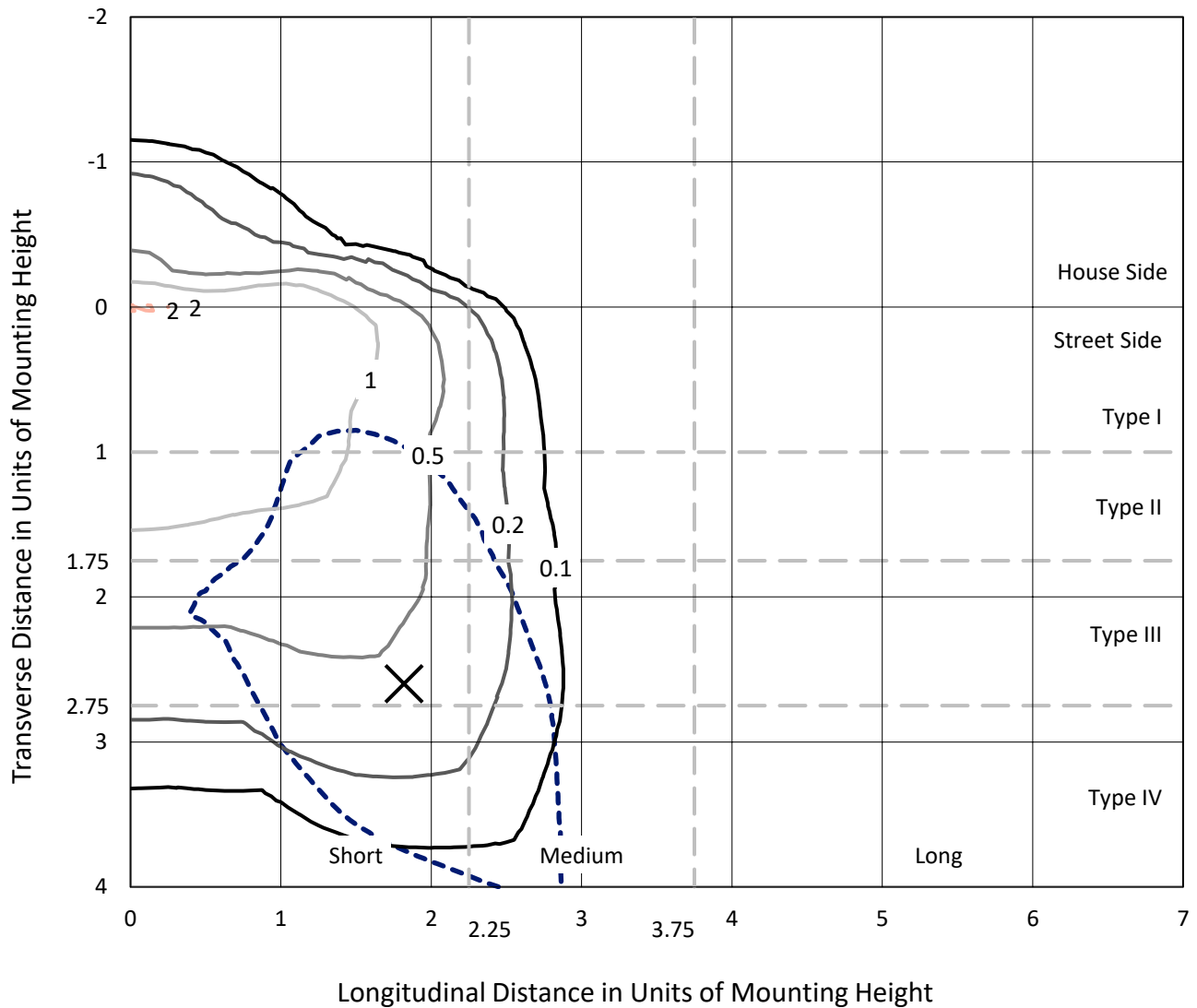
Lumens per Lamp: N/A  
Luminaire Lumens: 9021 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

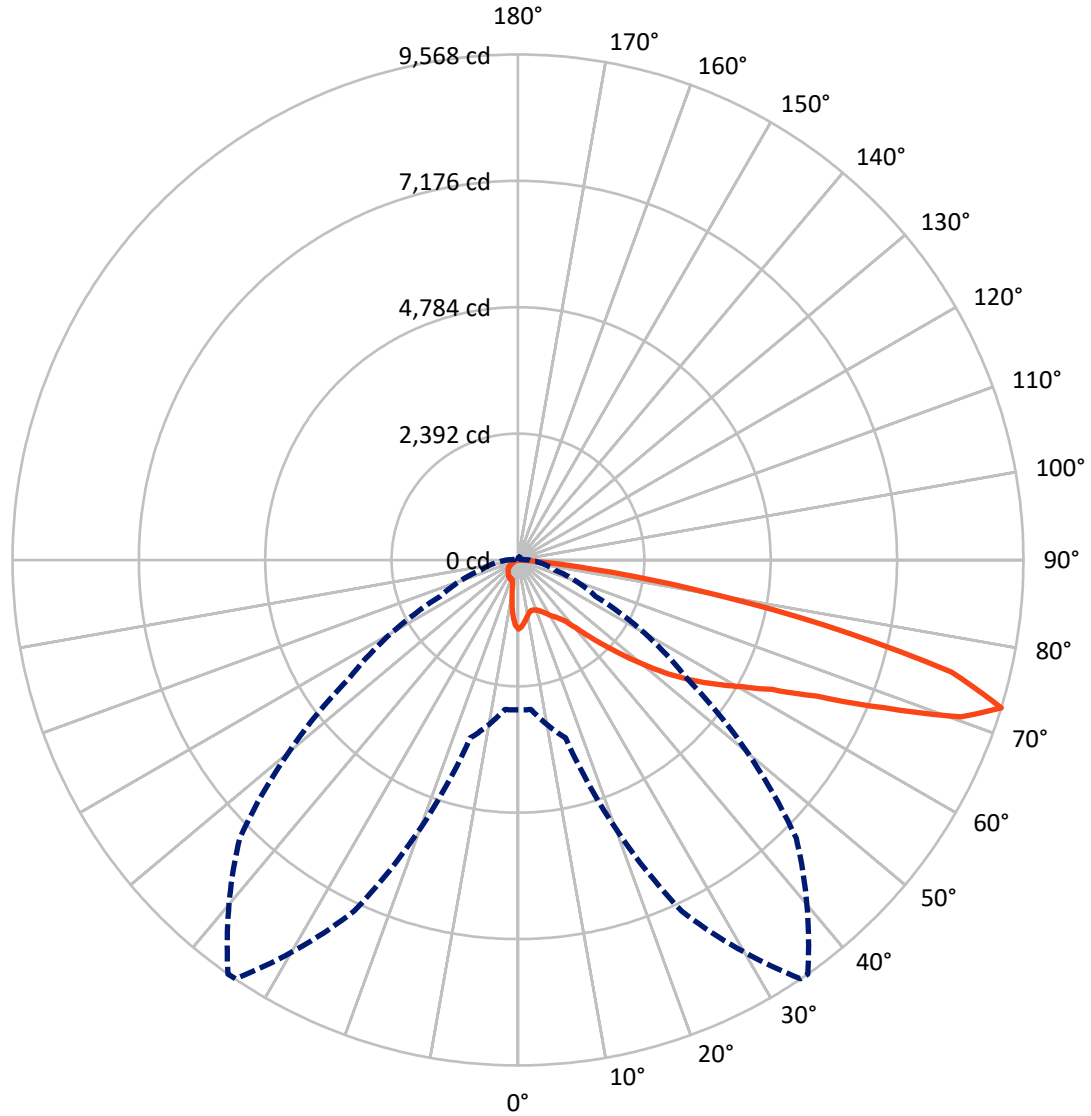
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1015.3	0.0	1015.3
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	8005.7	0.0	8005.7
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	9021.0	0.0	9021.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.4	1.2
10°-20°	251.3	2.8
20°-30°	408.3	4.5
30°-40°	681.2	7.6
40°-50°	1288.9	14.3
50°-60°	2048.1	22.7
60°-70°	2533.6	28.1
70°-80°	1574.9	17.5
80°-90°	127.3	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°	9021.0	100.0
0°-180°	9021.0	100.0

**Coefficient of Utilization**



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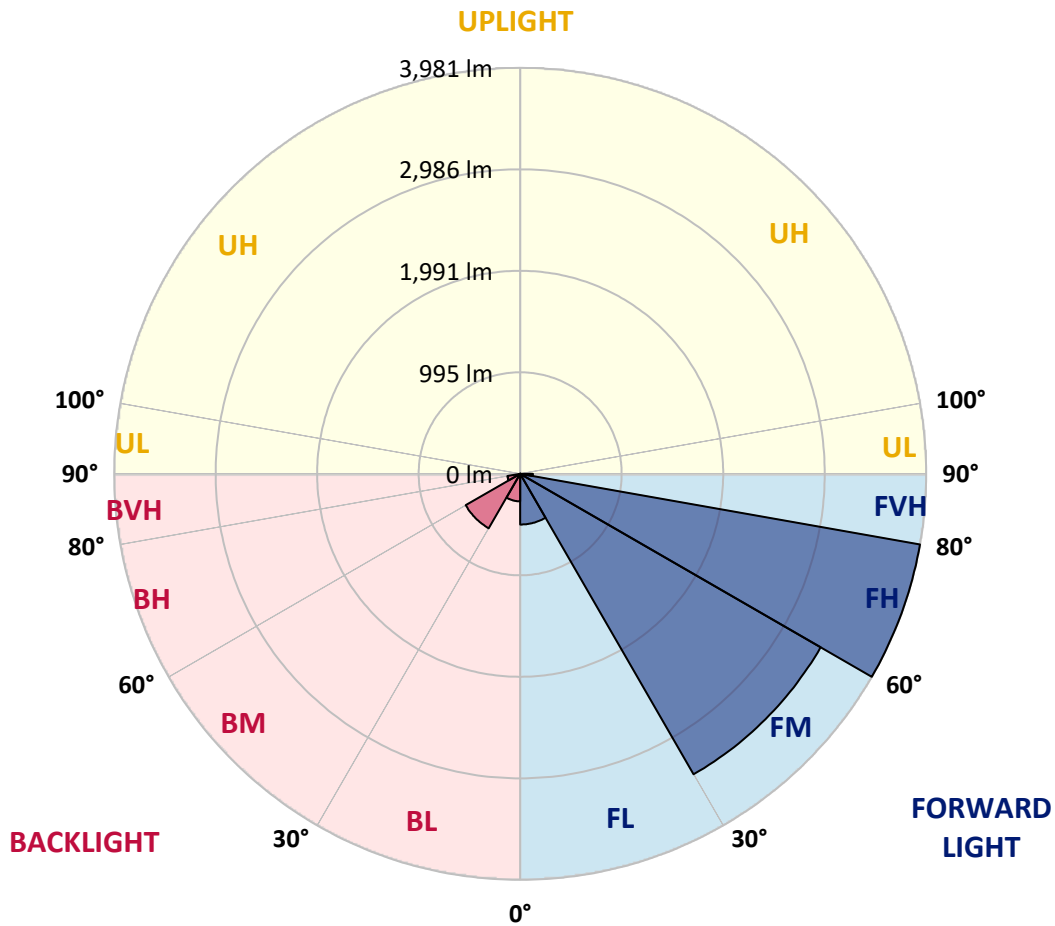
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	497.3	5.5			
FM (30°-60°)	3401.8	37.7			
FH (60°-80°)	3981.1	44.1			G2/5000
FVH (80°-90°)	125.5	1.4			G2/225
BL (0°-30°)	269.8	3.0	B1/500		
BM (30°-60°)	616.4	6.8	B1/1000		
BH (60°-80°)	127.4	1.4	B1/500		G1/500
BVH (80°-90°)	1.7	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°	1307.4	1307.4	1307.4	1307.4	1307.4	1307.4	1307.4	1307.4	1307.4	1307.4
2.5°	1249.3	1259.9	1261.8	1265.1	1265.1	1269.1	1275.7	1285.0	1300.2	1308.1
5°	1151.5	1159.4	1169.3	1177.2	1192.4	1194.4	1220.2	1245.3	1280.3	1306.8
7.5°	1053.0	1062.2	1075.4	1094.6	1114.4	1120.4	1159.4	1201.7	1257.2	1306.8
10°	983.6	984.2	996.1	1015.3	1047.0	1054.3	1101.9	1162.0	1231.4	1298.9
12.5°	944.6	949.2	954.5	969.0	999.4	1004.0	1054.9	1125.7	1205.7	1294.2
15°	944.6	947.9	951.2	958.4	982.9	986.9	1031.8	1102.5	1192.4	1296.2
17.5°	954.5	959.8	957.1	965.7	991.5	994.1	1033.8	1095.9	1191.8	1308.8
20°	978.3	982.2	976.9	982.2	1008.0	1013.3	1054.3	1108.5	1203.0	1330.6
22.5°	1015.9	1017.9	1005.4	1009.3	1035.8	1042.4	1090.0	1144.2	1230.1	1365.6
25°	1063.5	1067.5	1048.3	1053.0	1078.1	1086.0	1140.9	1197.7	1273.1	1413.9
27.5°	1118.4	1120.4	1103.9	1103.2	1135.6	1146.8	1202.3	1263.8	1330.6	1474.7
30°	1181.2	1187.1	1171.3	1168.6	1209.6	1218.9	1273.7	1345.1	1415.2	1565.9
32.5°	1230.8	1235.4	1226.1	1232.8	1274.4	1281.7	1360.3	1460.1	1548.0	1695.4
35°	1302.2	1304.8	1283.6	1295.5	1343.1	1361.6	1478.6	1621.4	1715.3	1858.1
37.5°	1560.6	1560.6	1470.7	1411.9	1457.5	1474.0	1640.6	1824.3	1921.5	2076.2
40°	1918.2	1912.3	1780.7	1660.4	1654.5	1686.9	1871.3	2080.1	2187.9	2337.9
42.5°	2299.6	2290.3	2111.2	1992.2	1972.4	1983.6	2137.7	2395.4	2505.2	2657.2
45°	2638.0	2635.4	2471.5	2311.5	2275.8	2311.5	2470.1	2764.3	2842.9	3002.9
47.5°	2921.6	2921.6	2802.0	2697.5	2679.0	2700.2	2920.3	3173.4	3166.2	3371.1
50°	3248.1	3245.5	3131.8	3086.8	3106.0	3135.8	3438.5	3604.4	3500.6	3732.6
52.5°	3476.8	3492.7	3453.7	3446.4	3544.2	3595.8	3964.6	4026.1	3800.1	4075.7
55°	3657.9	3676.4	3721.4	3772.3	3960.7	4028.1	4474.3	4426.0	4050.6	4373.1
57.5°	3914.4	3888.0	3957.4	4057.8	4362.6	4443.9	4968.0	4803.4	4252.2	4614.4
60°	4225.7	4229.7	4241.6	4368.5	4763.8	4868.2	5454.5	5160.4	4381.7	4762.5
62.5°	4599.9	4605.8	4630.3	4825.3	5302.5	5401.0	5972.7	5452.5	4441.2	4720.8
65°	4574.1	4599.2	4872.2	5539.1	6121.5	6218.6	6577.5	5657.4	4351.3	4340.1
67.5°	4166.9	4207.9	4664.6	6391.8	7356.2	7464.6	7308.6	5697.8	3963.3	3375.0
70°	3632.8	3647.4	4196.6	7158.6	8785.9	8895.7	7963.0	5254.2	3007.5	1882.5
72.5°	2837.0	2840.3	3484.8	7336.4	9561.9	9567.9	7449.4	3900.5	1617.5	723.1
75°	2026.6	2006.8	2334.0	5949.6	8412.5	8479.9	5584.7	1829.6	618.0	341.7
77.5°	1086.7	1108.5	1320.7	3528.4	5811.5	5926.5	3047.2	527.5	314.6	232.7
80°	335.8	354.3	541.4	1615.5	3291.7	3361.2	1129.6	234.7	219.4	165.9
82.5°	105.8	109.7	252.5	678.8	1366.3	1398.0	327.2	132.9	150.0	109.7
85°	30.4	31.1	112.4	253.2	337.8	344.4	91.9	51.6	85.9	68.1
87.5°	3.3	10.6	42.3	42.3	29.7	29.1	9.9	11.2	24.5	8.6
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°
1307.4	0°	1307.4	1307.4	1307.4	1307.4	1307.4	1307.4	1307.4	1307.4	1307.4	1307.4
1313.4	2.5°	1310.1	1310.8	1302.2	1287.6	1271.8	1258.5	1242.0	1228.8	1219.5	1216.9
1325.3	5°	1319.3	1314.7	1290.3	1246.0	1193.1	1147.5	1096.6	1056.3	1029.8	1018.6
1337.9	7.5°	1333.2	1320.0	1266.5	1179.2	1078.1	988.2	897.0	826.2	781.3	758.8
1349.7	10°	1345.1	1318.7	1226.8	1082.7	928.0	791.9	668.9	583.7	536.1	513.6
1363.6	12.5°	1356.4	1318.0	1175.2	968.4	758.8	592.3	477.9	435.6	422.4	417.7
1386.1	15°	1377.5	1320.0	1110.5	837.5	590.3	447.5	405.9	405.2	407.8	406.5
1420.5	17.5°	1406.6	1322.0	1037.1	698.7	455.4	394.6	392.6	398.6	402.5	400.6
1463.4	20°	1444.3	1329.9	959.1	561.2	391.3	381.4	386.0	391.3	394.6	391.3
1520.9	22.5°	1497.2	1343.8	873.8	450.8	370.8	373.5	377.4	383.4	386.7	382.1
1594.3	25°	1561.9	1365.6	789.9	392.0	360.9	364.2	370.2	376.8	380.7	376.1
1686.9	27.5°	1645.9	1400.6	712.6	378.7	351.0	353.0	361.6	371.5	376.8	370.8
1818.4	30°	1767.5	1458.2	645.8	384.7	345.0	340.4	352.3	366.2	372.1	366.9
1997.5	32.5°	1928.8	1539.5	604.8	394.0	342.4	325.9	337.1	355.0	364.9	361.6
2231.5	35°	2140.3	1663.1	588.9	404.5	340.4	310.7	318.6	337.8	355.0	358.3
2526.3	37.5°	2396.8	1834.9	593.6	409.2	334.5	298.1	302.1	318.6	341.1	351.6
2858.1	40°	2688.3	2035.2	620.0	404.5	327.9	287.5	288.2	300.8	320.6	336.4
3215.1	42.5°	2989.0	2269.2	668.9	387.3	321.9	278.3	276.3	284.9	298.1	309.3
3571.3	45°	3275.2	2509.8	717.2	363.5	314.6	269.0	264.4	267.7	270.3	275.0
3918.4	47.5°	3525.1	2679.0	703.3	341.7	304.7	258.4	250.5	249.2	241.3	240.6
4228.4	50°	3697.6	2716.0	624.6	319.9	290.2	246.6	234.0	226.1	212.2	205.6
4460.4	52.5°	3752.5	2569.9	510.3	298.1	266.4	230.7	212.8	200.3	183.1	177.1
4593.9	55°	3679.8	2283.7	407.8	271.7	233.3	209.5	189.7	173.2	159.3	152.0
4608.4	57.5°	3501.9	1919.5	322.6	240.6	198.3	185.7	165.9	149.4	137.5	130.2
4447.2	60°	3207.1	1524.3	255.1	203.6	169.2	160.0	139.5	128.9	118.3	109.7
4030.7	62.5°	2759.6	1088.0	200.3	161.3	141.5	130.9	119.0	111.0	98.5	86.6
3281.8	65°	2153.5	665.6	154.7	118.3	113.7	108.4	101.1	93.9	78.7	66.8
2141.0	67.5°	1358.3	315.3	110.4	89.2	89.9	87.3	83.9	78.0	66.8	56.2
959.1	70°	598.2	152.7	72.7	68.1	66.8	66.8	69.4	67.4	56.8	46.9
333.1	72.5°	203.6	82.0	54.2	51.6	48.3	47.6	58.2	56.2	45.6	36.4
165.9	75°	106.4	54.9	39.7	37.0	29.1	35.0	46.3	43.6	32.4	23.8
109.7	77.5°	69.4	39.0	27.1	23.8	16.5	23.1	34.4	30.4	19.2	11.9
72.0	80°	43.6	25.8	15.9	11.2	7.9	12.6	18.5	13.2	7.3	2.6
42.3	82.5°	23.1	13.2	5.9	4.0	3.3	4.0	4.6	3.3	1.3	0.0
21.8	85°	9.3	4.6	2.0	1.3	0.7	0.0	1.3	0.7	0.0	0.0
4.0	87.5°	3.3	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>
1307.4
1221.5
1022.6
762.1
514.3
416.4
405.9
399.9
390.6
381.4
375.4
370.8
366.2
361.6
358.3
354.3
341.7
314.0
277.6
239.9
206.2
176.5
152.0
128.9
107.7
84.6
64.8
54.9
44.9
34.4
21.8
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