

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: P939714

Luminaire Tested: **GALN-SB2B-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5959 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

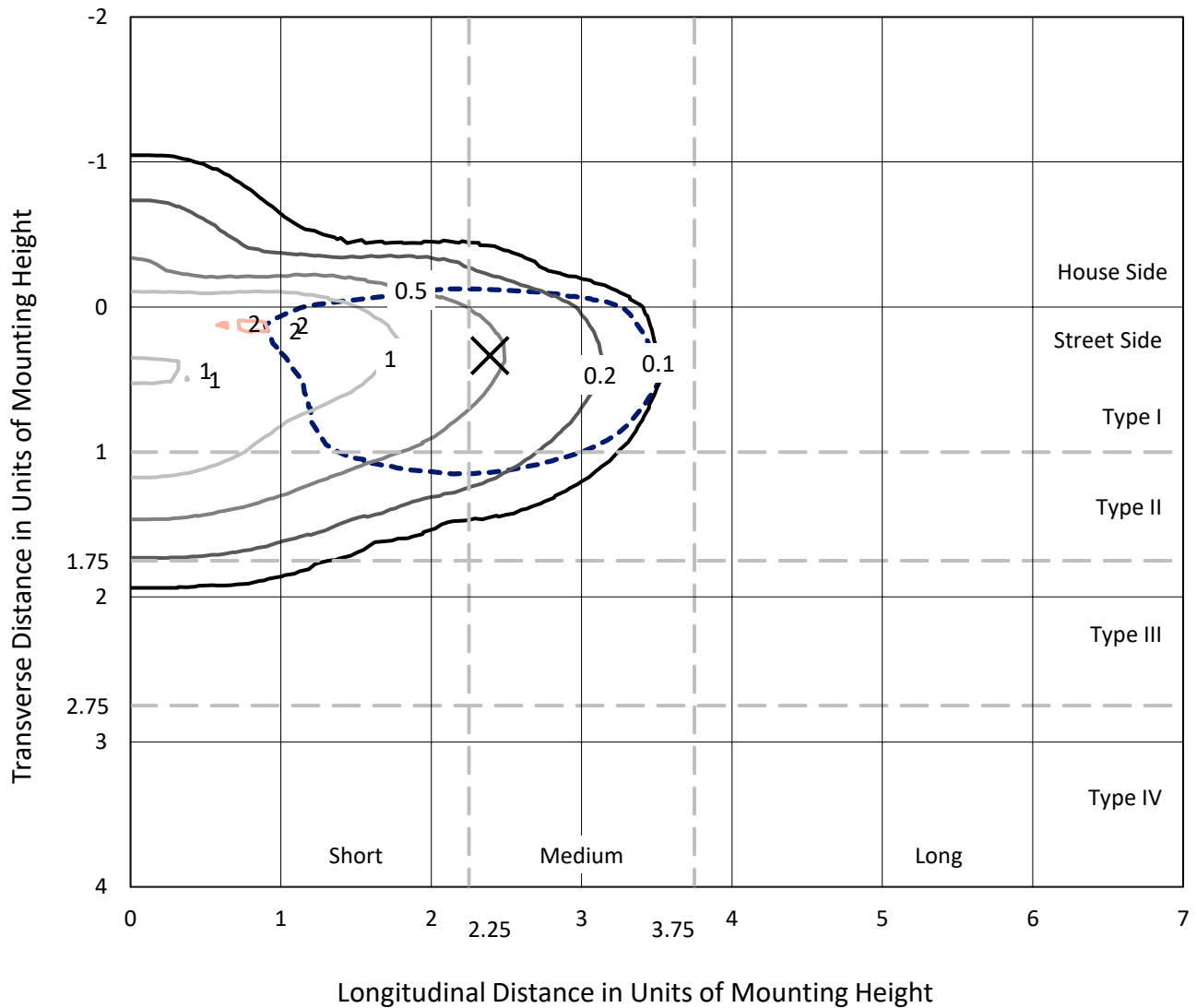
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

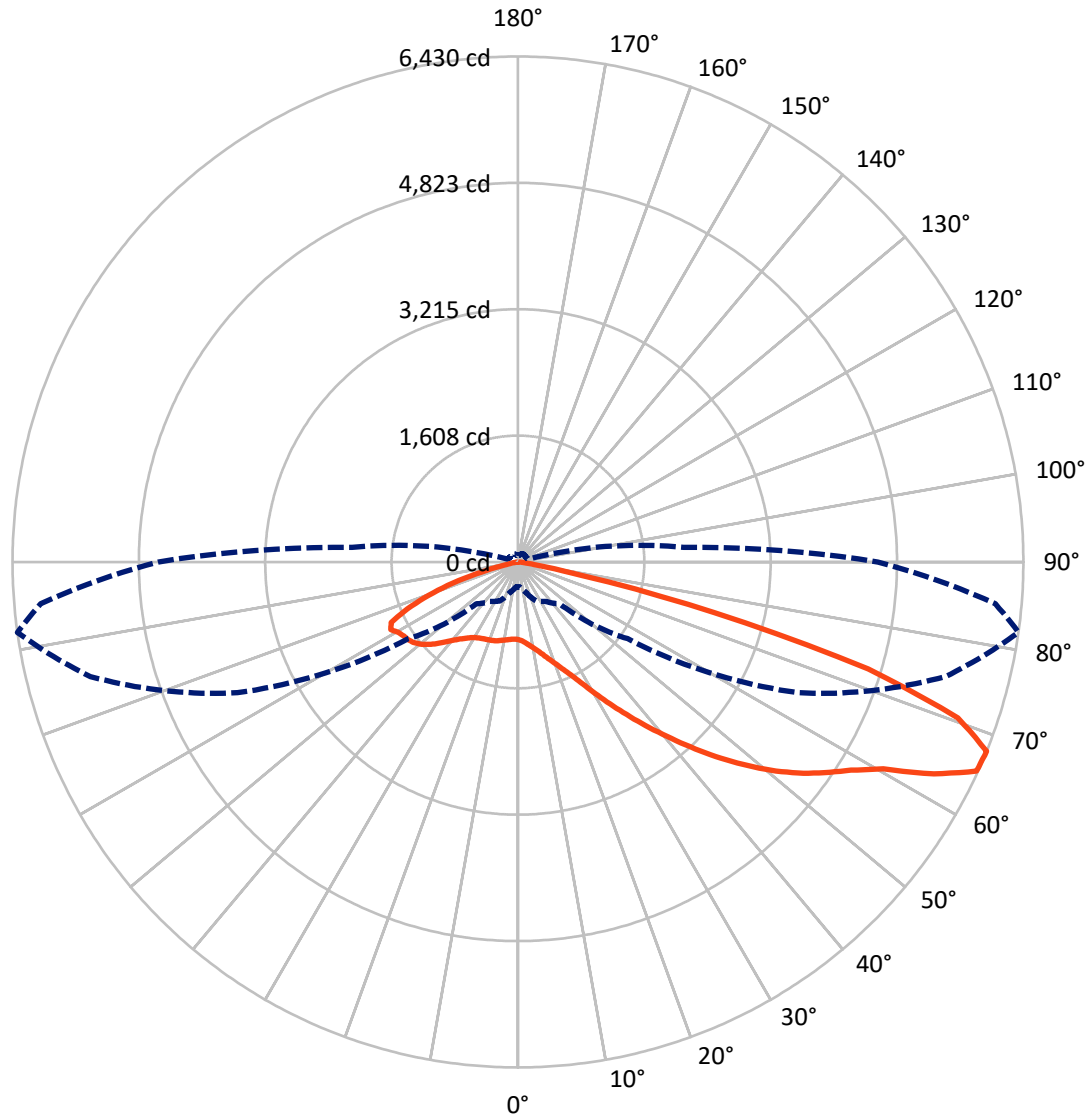
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1079.4	0.0	1079.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4879.6	0.0	4879.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	5959.0	0.0	5959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	1.5
10°-20°	228.6	3.8
20°-30°	366.1	6.1
30°-40°	647.3	10.9
40°-50°	1134.2	19.0
50°-60°	1512.7	25.4
60°-70°	1408.2	23.6
70°-80°	540.5	9.1
80°-90°	33.6	0.6
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°	5959.0	100.0
0°-180°	5959.0	100.0

Coefficient of Utilization



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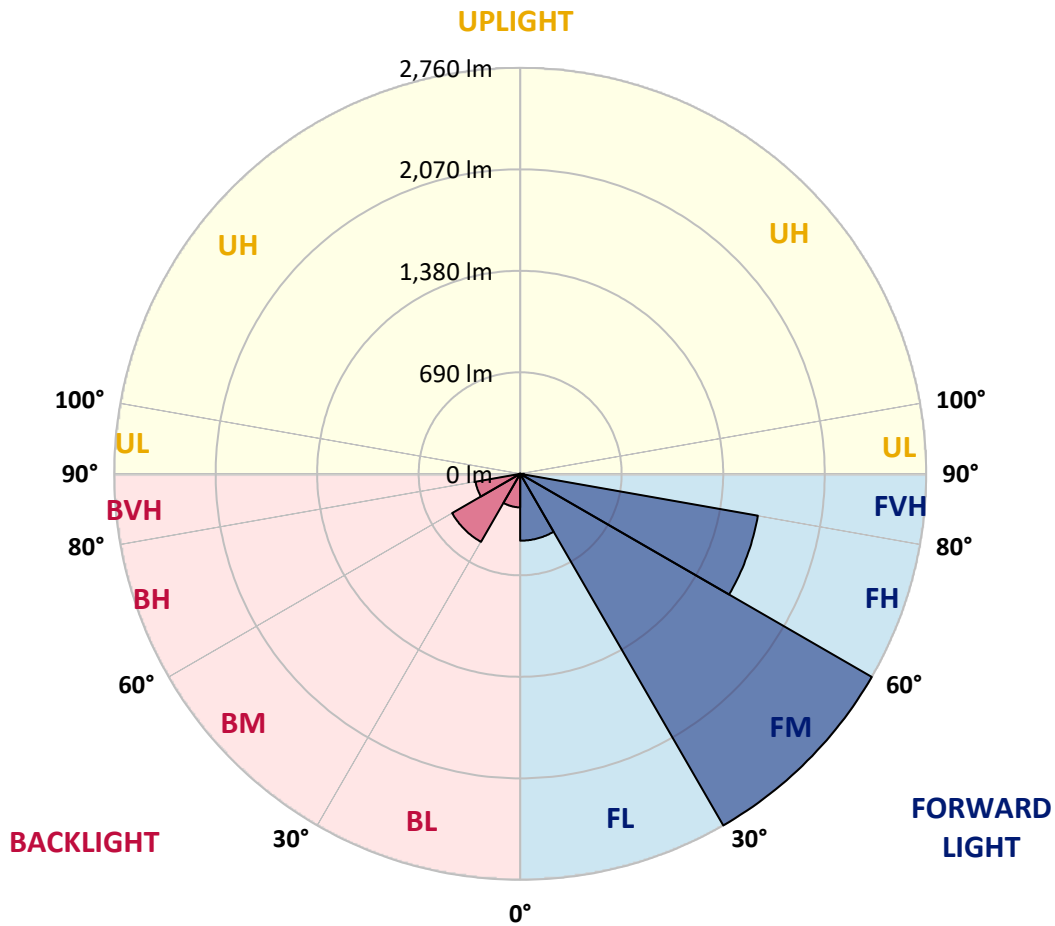
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	454.6	7.6			
FM (30°-60°)	2760.0	46.3			
FH (60°-80°)	1640.6	27.5			G1/1800
FVH (80°-90°)	24.4	0.4			G1/100
BL (0°-30°)	228.0	3.8	B1/500		
BM (30°-60°)	534.2	9.0	B1/1000		
BH (60°-80°)	308.1	5.2	B1/500		G1/500
BVH (80°-90°)	9.2	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2
2.5°	1043.4	1049.4	1046.0	1044.3	1041.3	1037.0	1033.5	1022.8	1011.7	1004.4
5°	1064.4	1070.4	1070.0	1071.7	1073.9	1075.2	1074.3	1062.3	1046.4	1034.0
7.5°	1046.4	1053.3	1058.9	1067.4	1082.4	1098.3	1106.0	1103.5	1087.2	1070.0
10°	995.4	1002.6	1015.9	1036.1	1067.9	1102.2	1130.9	1144.2	1133.9	1115.1
12.5°	901.8	909.1	935.3	979.1	1032.3	1091.9	1146.8	1182.4	1185.0	1166.1
15°	796.7	804.0	831.9	886.8	967.9	1063.6	1155.4	1222.7	1245.5	1229.2
17.5°	731.5	737.9	759.0	803.1	887.7	1006.9	1152.4	1265.6	1317.6	1304.7
20°	711.8	717.3	727.2	758.1	828.5	948.2	1132.6	1306.0	1395.2	1387.9
22.5°	732.8	737.9	740.9	754.7	798.9	909.5	1107.8	1347.2	1485.3	1486.2
25°	781.3	786.4	783.0	791.6	810.9	897.5	1098.3	1395.6	1598.6	1608.0
27.5°	861.1	861.5	853.3	852.9	855.9	915.6	1108.2	1447.6	1741.4	1759.0
30°	1021.1	1014.7	983.3	949.4	934.0	969.6	1135.7	1508.9	1910.1	1941.4
32.5°	1267.8	1258.4	1200.9	1119.8	1038.3	1056.7	1185.0	1578.8	2093.7	2150.3
35°	1535.5	1532.9	1472.9	1352.3	1209.9	1180.7	1265.2	1670.7	2294.0	2384.1
37.5°	1784.3	1783.1	1748.7	1606.7	1433.4	1353.6	1393.9	1790.8	2508.6	2639.0
40°	2011.7	2015.6	1981.3	1854.3	1679.7	1575.4	1569.0	1939.2	2747.1	2916.6
42.5°	2208.2	2212.5	2177.8	2083.8	1922.9	1820.8	1783.9	2121.1	2980.1	3214.7
45°	2341.7	2368.3	2363.1	2288.0	2172.6	2066.7	2042.2	2349.4	3245.6	3530.9
47.5°	2379.4	2403.9	2442.5	2452.8	2382.4	2278.2	2307.3	2624.4	3514.2	3847.6
50°	2286.3	2309.1	2389.3	2496.1	2545.0	2512.8	2565.2	2919.1	3789.2	4163.3
52.5°	2102.7	2125.9	2227.1	2396.1	2595.6	2696.9	2823.9	3209.6	4055.6	4462.4
55°	1837.1	1861.6	1991.6	2182.9	2499.1	2772.8	3039.7	3499.6	4299.8	4731.4
57.5°	1475.9	1493.9	1629.0	1896.8	2256.3	2697.3	3198.9	3816.2	4529.7	4995.7
60°	961.9	977.8	1134.8	1433.4	1853.9	2445.1	3230.6	4169.3	4835.2	5339.3
62.5°	639.7	650.4	743.5	962.7	1305.5	1960.7	3044.8	4451.2	5283.1	5937.4
65°	438.9	449.6	542.7	695.5	843.5	1297.0	2510.7	4413.9	5689.0	6412.3
67.5°	313.2	322.2	401.1	545.3	610.5	753.4	1702.0	3936.8	5630.6	6430.3
70°	224.4	229.5	294.7	424.7	485.2	452.6	946.4	3011.0	4930.0	5937.8
72.5°	157.0	158.7	204.6	323.5	390.8	330.4	450.5	2007.4	3728.7	4660.6
75°	106.4	108.5	137.7	237.3	313.6	252.3	238.5	1076.4	2188.9	2579.8
77.5°	65.2	66.1	88.8	162.2	234.7	192.2	153.6	456.1	846.9	831.5
80°	36.9	36.9	56.6	100.8	160.0	124.0	107.7	193.9	268.1	235.5
82.5°	20.6	21.0	41.2	62.6	106.0	73.4	59.2	89.7	115.8	102.5
85°	8.6	9.4	25.3	29.6	50.6	36.5	24.0	37.8	42.9	38.2
87.5°	0.9	1.3	7.7	5.6	6.0	7.3	3.4	7.3	6.0	6.0
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°
987.2	0°	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2
1001.8	2.5°	993.6	987.2	970.9	952.0	927.1	915.1	898.8	887.7	878.2	879.1
1026.7	5°	1012.9	996.6	960.2	914.7	858.1	817.7	774.8	745.2	721.2	716.1
1061.0	7.5°	1039.5	1013.8	949.9	867.9	772.3	699.8	635.0	593.4	563.7	554.3
1102.6	10°	1073.9	1036.5	936.6	809.2	671.4	579.2	509.7	477.1	456.9	450.1
1151.5	12.5°	1113.8	1062.7	919.0	737.5	567.6	478.8	434.6	418.3	411.9	409.7
1211.6	15°	1164.0	1095.3	892.4	652.6	479.7	417.4	398.6	396.4	397.3	396.4
1283.7	17.5°	1223.6	1130.9	849.1	565.0	420.5	386.1	379.3	381.0	383.1	382.7
1364.3	20°	1288.8	1166.1	793.7	487.4	380.1	363.8	360.0	361.7	363.4	362.5
1457.4	22.5°	1363.0	1203.9	732.4	426.9	353.1	343.2	338.9	339.4	339.4	337.6
1575.4	25°	1451.8	1245.5	668.0	384.0	332.5	324.8	319.6	317.9	315.3	310.2
1718.7	27.5°	1557.8	1289.7	606.2	354.0	316.2	308.9	302.9	298.6	292.2	283.6
1890.7	30°	1677.1	1343.3	553.9	335.1	303.3	296.0	289.2	282.7	273.3	262.6
2088.5	32.5°	1817.4	1400.8	515.7	322.6	291.7	284.0	275.9	268.1	257.8	247.1
2310.8	35°	1984.7	1470.3	493.4	314.1	282.7	272.4	263.4	254.8	247.1	237.7
2552.3	37.5°	2166.2	1544.1	486.5	309.8	276.7	260.9	250.6	244.5	243.7	238.1
2813.6	40°	2364.8	1631.6	491.7	307.2	270.3	249.7	238.5	237.3	239.4	229.5
3092.9	42.5°	2575.1	1735.4	500.3	304.2	261.3	238.5	227.8	227.8	226.1	212.4
3388.1	45°	2802.4	1855.1	508.8	296.9	250.6	227.4	219.2	216.2	208.9	195.6
3685.0	47.5°	3031.5	1977.0	515.3	283.6	237.7	217.9	210.7	203.8	193.1	181.1
3976.3	50°	3249.1	2086.4	508.4	263.9	223.1	208.9	201.2	191.8	180.2	172.0
4252.1	52.5°	3443.4	2181.2	479.2	240.7	207.7	199.5	192.6	182.8	173.3	164.7
4501.0	55°	3612.5	2258.0	427.7	218.8	193.9	191.3	184.5	172.0	159.2	151.9
4747.7	57.5°	3774.6	2316.3	363.4	200.8	181.5	182.3	172.0	160.9	148.9	141.2
5080.2	60°	3990.4	2394.4	298.2	184.1	168.2	170.8	159.6	151.4	136.4	126.6
5650.4	62.5°	4335.4	2515.8	236.8	163.5	152.7	153.6	148.9	139.0	121.0	109.4
6073.0	65°	4609.1	2471.2	186.6	141.2	135.1	136.4	136.4	125.7	106.4	93.1
6095.7	67.5°	4578.2	2116.0	148.9	119.3	118.4	119.3	122.3	113.3	94.4	83.7
5631.5	70°	4217.4	1683.1	119.3	99.1	103.0	100.8	109.4	103.4	84.9	74.2
4365.8	72.5°	3441.3	1212.4	91.0	81.9	78.9	82.4	98.7	93.1	70.8	58.8
2312.5	75°	2010.9	647.0	67.8	64.8	57.1	68.6	87.5	79.4	54.1	43.3
708.8	77.5°	654.7	225.7	49.8	47.6	42.5	55.3	74.7	66.9	44.2	34.3
207.7	80°	175.5	68.2	33.9	31.3	27.5	41.2	59.2	53.2	31.7	22.3
89.2	82.5°	70.4	28.7	19.7	17.6	15.0	28.3	46.8	42.9	23.6	14.2
27.9	85°	22.7	9.4	7.3	5.6	6.9	17.6	27.9	29.2	16.7	7.3
4.3	87.5°	3.0	1.3	1.3	1.7	1.3	3.0	8.6	8.2	4.7	0.9
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>
987.2
870.5
704.5
544.9
444.9
408.4
396.0
381.8
362.1
336.8
309.3
282.7
261.7
247.6
236.8
237.7
230.0
212.4
195.2
180.6
170.8
163.9
151.0
140.3
125.3
108.5
91.8
81.9
72.9
57.5
42.0
33.0
21.9
14.2
5.6
0.0
0.0

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