

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: P939888

Luminaire Tested: **GALN-SB2C-940-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939888
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-SB2C-940-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 615mA 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: 8217 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

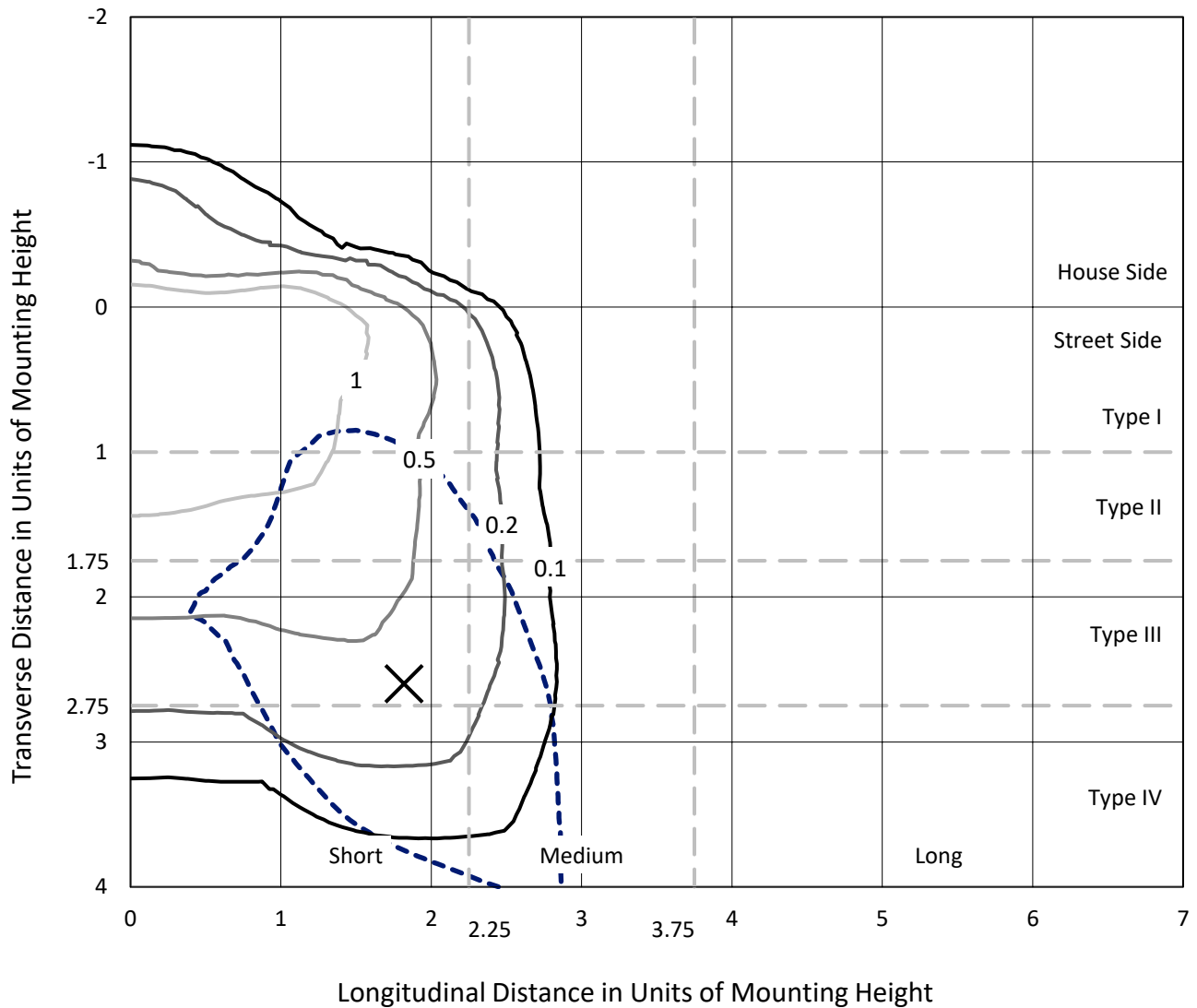
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

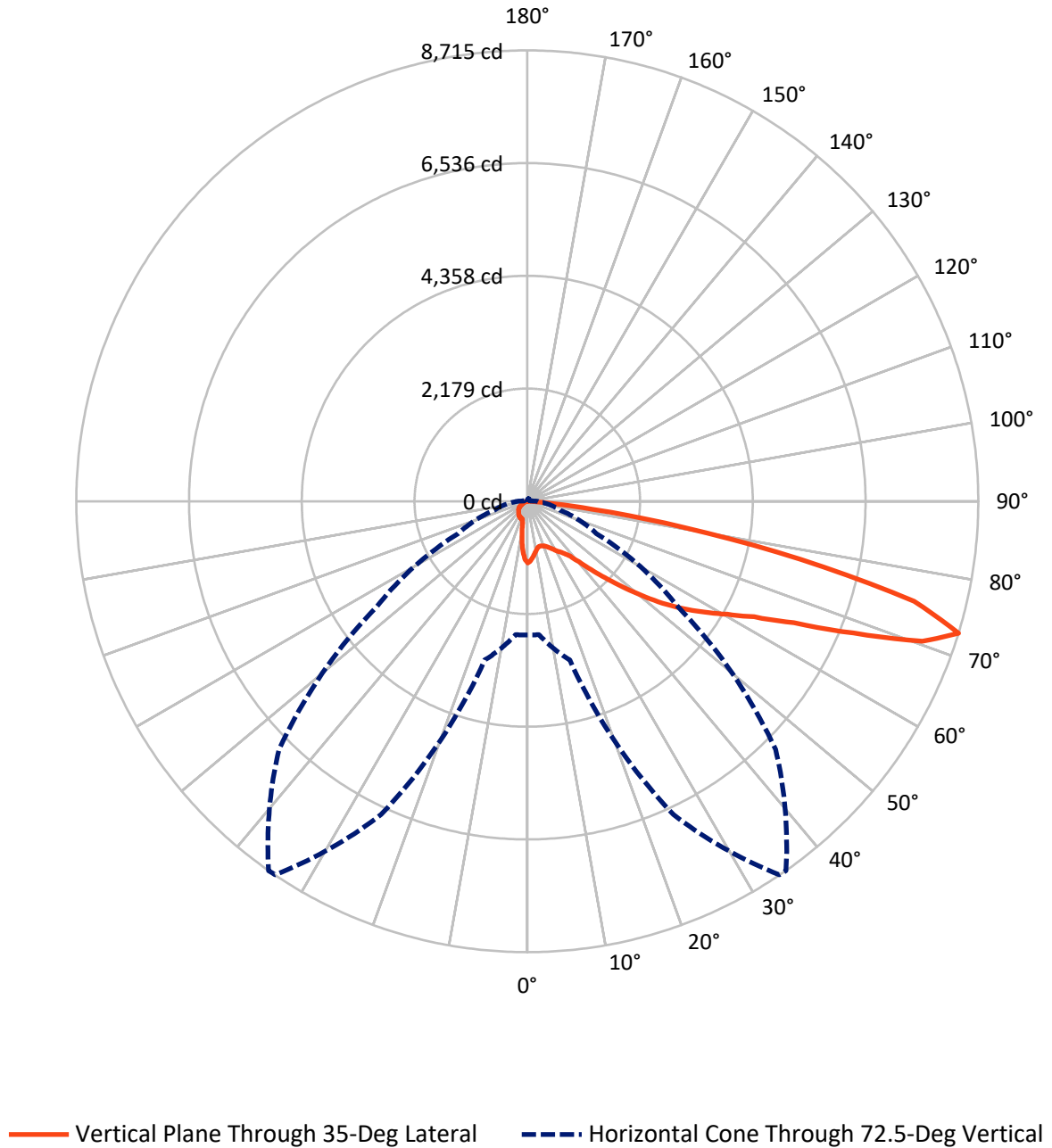
✕ Max cd
 - - - 1/2 Max cd



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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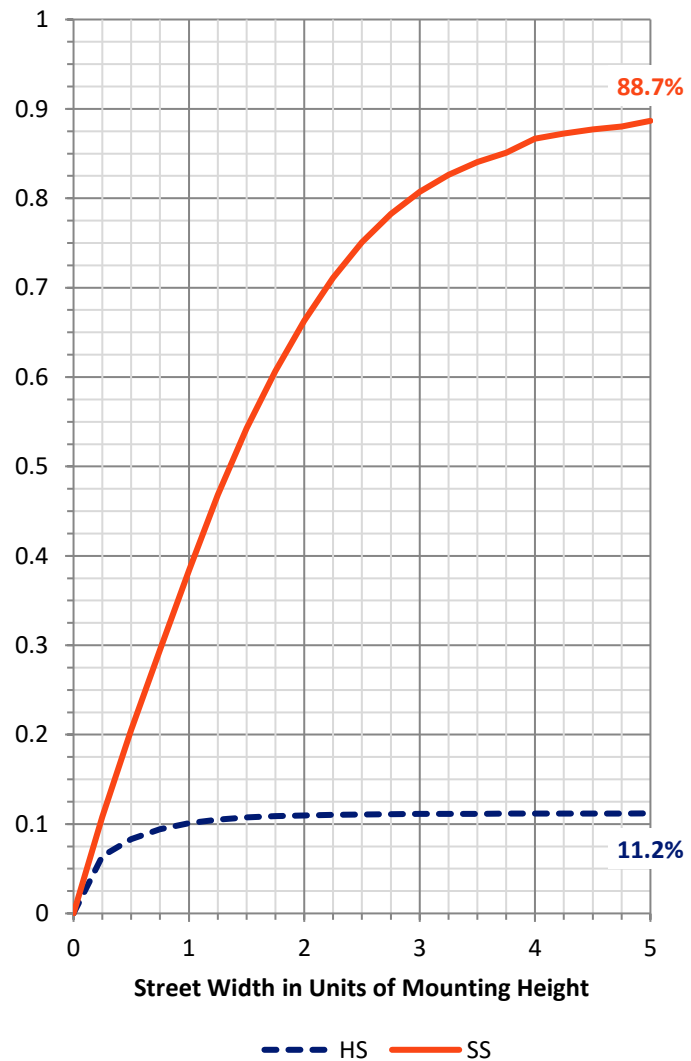
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	924.8	0.0	924.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	7292.2	0.0	7292.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	8217.0	0.0	8217.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	1.2
10°-20°	228.9	2.8
20°-30°	371.9	4.5
30°-40°	620.5	7.6
40°-50°	1174.0	14.3
50°-60°	1865.5	22.7
60°-70°	2307.8	28.1
70°-80°	1434.5	17.5
80°-90°	115.9	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°	8217.0	100.0
0°-180°	8217.0	100.0

Coefficient of Utilization



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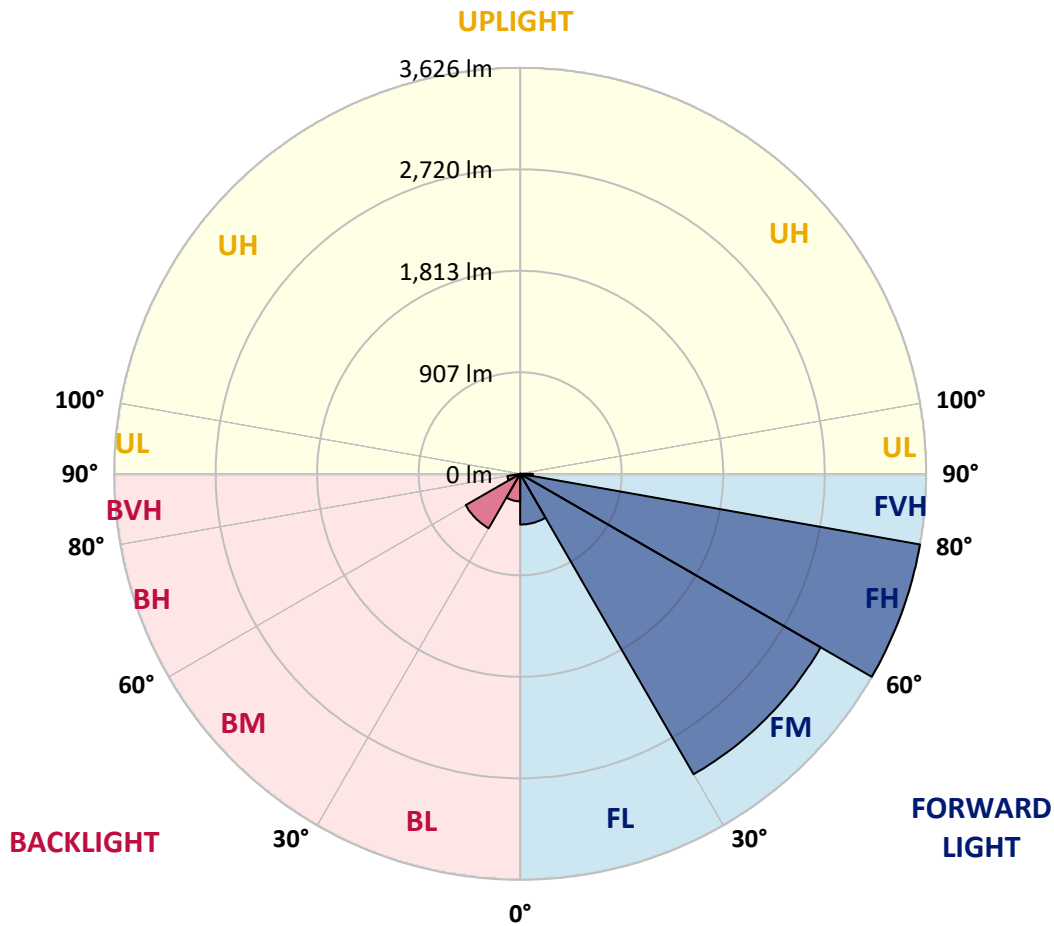
CATALOG NUMBER: GALN-SB2C-940-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	453.0	5.5			
FM (30°-60°)	3098.6	37.7			
FH (60°-80°)	3626.3	44.1			G2/5000
FVH (80°-90°)	114.4	1.4			G2/225
BL (0°-30°)	245.7	3.0	B1/500		
BM (30°-60°)	561.4	6.8	B1/1000		
BH (60°-80°)	116.0	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°	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9
2.5°	1137.9	1147.6	1149.4	1152.4	1152.4	1156.0	1162.0	1170.4	1184.3	1191.5
5°	1048.8	1056.1	1065.1	1072.3	1086.2	1088.0	1111.4	1134.3	1166.2	1190.3
7.5°	959.1	967.5	979.6	997.0	1015.1	1020.5	1056.1	1094.6	1145.2	1190.3
10°	895.9	896.5	907.3	924.8	953.7	960.3	1003.7	1058.5	1121.7	1183.1
12.5°	860.4	864.6	869.4	882.7	910.3	914.6	960.9	1025.3	1098.2	1178.9
15°	860.4	863.4	866.4	873.0	895.3	898.9	939.9	1004.3	1086.2	1180.7
17.5°	869.4	874.2	871.8	879.6	903.1	905.5	941.7	998.3	1085.6	1192.1
20°	891.1	894.7	889.9	894.7	918.2	923.0	960.3	1009.7	1095.8	1212.0
22.5°	925.4	927.2	915.8	919.4	943.5	949.5	992.8	1042.2	1120.5	1243.9
25°	968.8	972.4	954.9	959.1	982.0	989.2	1039.2	1091.0	1159.6	1287.9
27.5°	1018.7	1020.5	1005.5	1004.9	1034.4	1044.6	1095.2	1151.2	1212.0	1343.2
30°	1075.9	1081.3	1066.9	1064.5	1101.8	1110.2	1160.2	1225.2	1289.1	1426.3
32.5°	1121.1	1125.3	1116.9	1122.9	1160.8	1167.4	1239.1	1330.0	1410.1	1544.3
35°	1186.1	1188.5	1169.2	1180.1	1223.4	1240.3	1346.9	1476.9	1562.4	1692.5
37.5°	1421.5	1421.5	1339.6	1286.0	1327.6	1342.6	1494.4	1661.7	1750.3	1891.1
40°	1747.2	1741.8	1622.0	1512.4	1507.0	1536.5	1704.5	1894.8	1992.9	2129.6
42.5°	2094.6	2086.2	1923.1	1814.7	1796.6	1806.8	1947.1	2181.9	2281.9	2420.4
45°	2402.9	2400.5	2251.2	2105.5	2073.0	2105.5	2250.0	2517.9	2589.6	2735.3
47.5°	2661.2	2661.2	2552.2	2457.1	2440.2	2459.5	2660.0	2890.6	2884.0	3070.6
50°	2958.6	2956.2	2852.7	2811.7	2829.2	2856.3	3132.0	3283.2	3188.6	3400.0
52.5°	3167.0	3181.4	3145.9	3139.3	3228.4	3275.3	3611.3	3667.3	3461.4	3712.4
55°	3331.9	3348.8	3389.7	3436.1	3607.7	3669.1	4075.5	4031.5	3689.6	3983.4
57.5°	3565.5	3541.4	3604.7	3696.2	3973.7	4047.8	4525.3	4375.3	3873.2	4203.1
60°	3849.1	3852.7	3863.6	3979.2	4339.2	4434.3	4968.4	4700.5	3991.2	4338.0
62.5°	4189.9	4195.3	4217.6	4395.2	4829.9	4919.6	5440.4	4966.6	4045.4	4300.1
65°	4166.4	4189.3	4437.9	5045.4	5575.9	5664.4	5991.3	5153.2	3963.5	3953.3
67.5°	3795.5	3832.9	4248.9	5822.1	6700.6	6799.3	6657.2	5189.9	3610.1	3074.2
70°	3309.0	3322.3	3822.6	6520.6	8002.9	8102.8	7253.3	4786.0	2739.5	1714.7
72.5°	2584.1	2587.1	3174.2	6682.5	8709.7	8715.1	6785.5	3552.9	1473.3	658.7
75°	1846.0	1827.9	2126.0	5419.3	7662.7	7724.1	5087.0	1666.6	562.9	311.3
77.5°	989.8	1009.7	1203.0	3213.9	5293.5	5398.3	2775.6	480.5	286.6	211.9
80°	305.9	322.7	493.1	1471.5	2998.4	3061.6	1029.0	213.7	199.9	151.1
82.5°	96.3	99.9	230.0	618.3	1244.5	1273.4	298.0	121.0	136.7	99.9
85°	27.7	28.3	102.4	230.6	307.7	313.7	83.7	47.0	78.3	62.0
87.5°	3.0	9.6	38.5	38.5	27.1	26.5	9.0	10.2	22.3	7.8
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°
1190.9	0°	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9	1190.9
1196.3	2.5°	1193.3	1193.9	1186.1	1172.9	1158.4	1146.4	1131.3	1119.3	1110.8	1108.4
1207.2	5°	1201.8	1197.5	1175.3	1134.9	1086.8	1045.2	998.9	962.1	938.0	927.8
1218.6	7.5°	1214.4	1202.4	1153.6	1074.1	982.0	900.1	817.0	752.6	711.7	691.2
1229.5	10°	1225.2	1201.2	1117.5	986.2	845.3	721.3	609.3	531.6	488.3	467.8
1242.1	12.5°	1235.5	1200.6	1070.5	882.1	691.2	539.5	435.3	396.8	384.7	380.5
1262.6	15°	1254.7	1202.4	1011.5	762.8	537.7	407.6	369.7	369.1	371.5	370.3
1293.9	17.5°	1281.2	1204.2	944.7	636.4	414.8	359.4	357.6	363.1	366.7	364.9
1333.0	20°	1315.5	1211.4	873.6	511.2	356.4	347.4	351.6	356.4	359.4	356.4
1385.4	22.5°	1363.7	1224.0	796.0	410.6	337.8	340.2	343.8	349.2	352.2	348.0
1452.2	25°	1422.7	1243.9	719.5	357.0	328.7	331.7	337.2	343.2	346.8	342.6
1536.5	27.5°	1499.2	1275.8	649.0	345.0	319.7	321.5	329.3	338.4	343.2	337.8
1656.3	30°	1610.0	1328.2	588.2	350.4	314.3	310.1	320.9	333.6	339.0	334.2
1819.5	32.5°	1756.9	1402.2	550.9	358.8	311.9	296.8	307.1	323.3	332.3	329.3
2032.6	35°	1949.5	1514.8	536.5	368.5	310.1	283.0	290.2	307.7	323.3	326.3
2301.2	37.5°	2183.2	1671.4	540.7	372.7	304.7	271.5	275.2	290.2	310.7	320.3
2603.4	40°	2448.7	1853.8	564.8	368.5	298.6	261.9	262.5	273.9	292.0	306.5
2928.5	42.5°	2722.6	2066.9	609.3	352.8	293.2	253.5	251.7	259.5	271.5	281.8
3253.1	45°	2983.3	2286.1	653.3	331.1	286.6	245.0	240.8	243.8	246.3	250.5
3569.1	47.5°	3210.9	2440.2	640.6	311.3	277.6	235.4	228.2	227.0	219.8	219.2
3851.5	50°	3368.0	2474.0	569.0	291.4	264.3	224.6	213.1	205.9	193.3	187.2
4062.9	52.5°	3418.0	2340.9	464.8	271.5	242.6	210.1	193.9	182.4	166.8	161.4
4184.5	55°	3351.8	2080.2	371.5	247.5	212.5	190.9	172.8	157.7	145.1	138.5
4197.7	57.5°	3189.8	1748.4	293.8	219.2	180.6	169.2	151.1	136.1	125.2	118.6
4050.8	60°	2921.3	1388.4	232.4	185.4	154.1	145.7	127.0	117.4	107.8	99.9
3671.5	62.5°	2513.7	991.0	182.4	146.9	128.8	119.2	108.4	101.1	89.7	78.9
2989.3	65°	1961.6	606.3	140.9	107.8	103.6	98.7	92.1	85.5	71.6	60.8
1950.1	67.5°	1237.3	287.2	100.5	81.3	81.9	79.5	76.5	71.0	60.8	51.2
873.6	70°	544.9	139.1	66.2	62.0	60.8	60.8	63.2	61.4	51.8	42.7
303.4	72.5°	185.4	74.7	49.4	47.0	44.0	43.3	53.0	51.2	41.5	33.1
151.1	75°	96.9	50.0	36.1	33.7	26.5	31.9	42.1	39.7	29.5	21.7
99.9	77.5°	63.2	35.5	24.7	21.7	15.1	21.1	31.3	27.7	17.5	10.8
65.6	80°	39.7	23.5	14.4	10.2	7.2	11.4	16.9	12.0	6.6	2.4
38.5	82.5°	21.1	12.0	5.4	3.6	3.0	3.6	4.2	3.0	1.2	0.0
19.9	85°	8.4	4.2	1.8	1.2	0.6	0.0	1.2	0.6	0.0	0.0
3.6	87.5°	3.0	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>
1190.9
1112.6
931.4
694.2
468.4
379.3
369.7
364.3
355.8
347.4
342.0
337.8
333.6
329.3
326.3
322.7
311.3
286.0
252.9
218.6
187.8
160.8
138.5
117.4
98.1
77.1
59.0
50.0
40.9
31.3
19.9
9.6
1.8
0.0
0.0
0.0
0.0

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