

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: P939816

Luminaire Tested: **GALN-SB2C-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10554 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

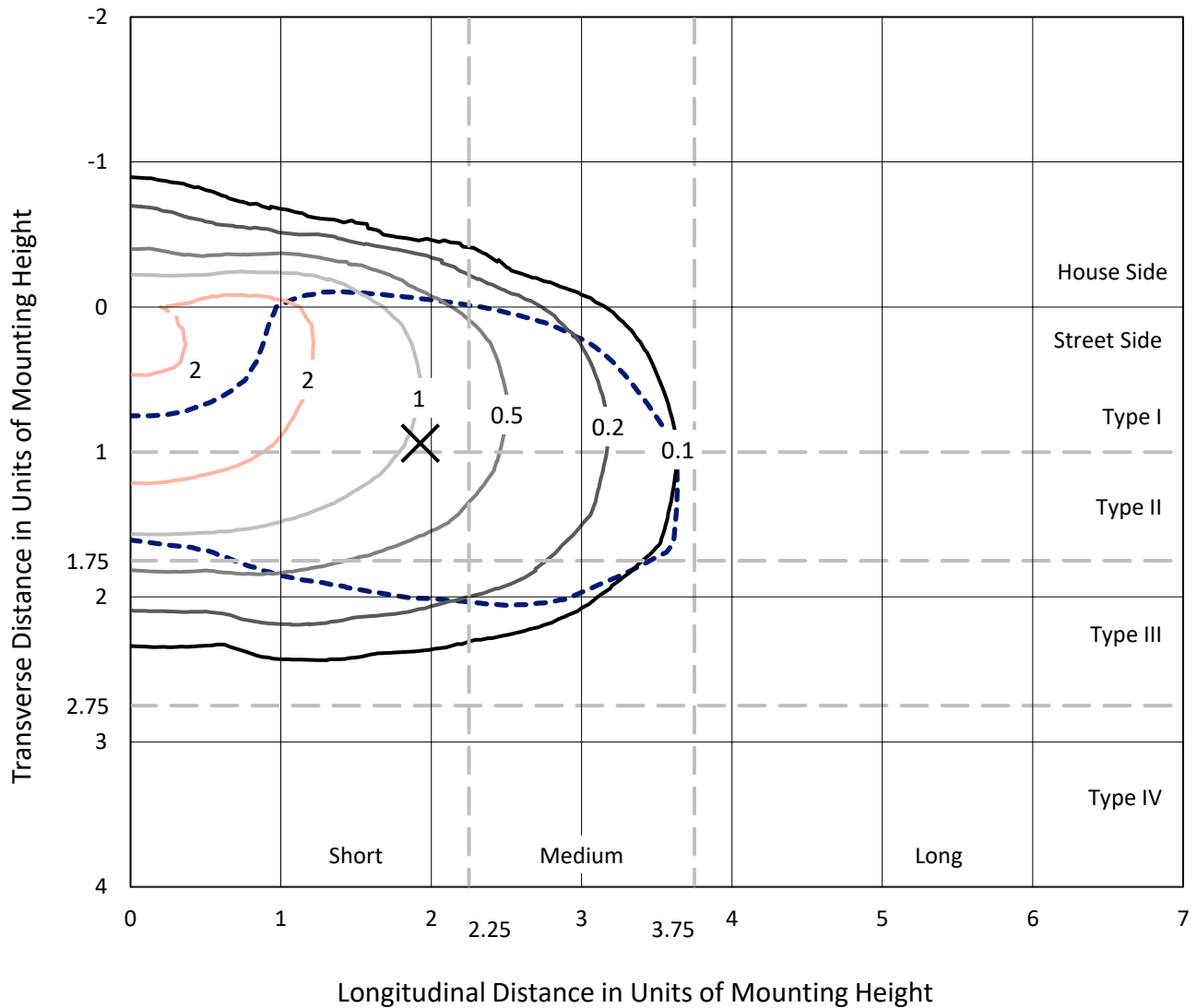
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

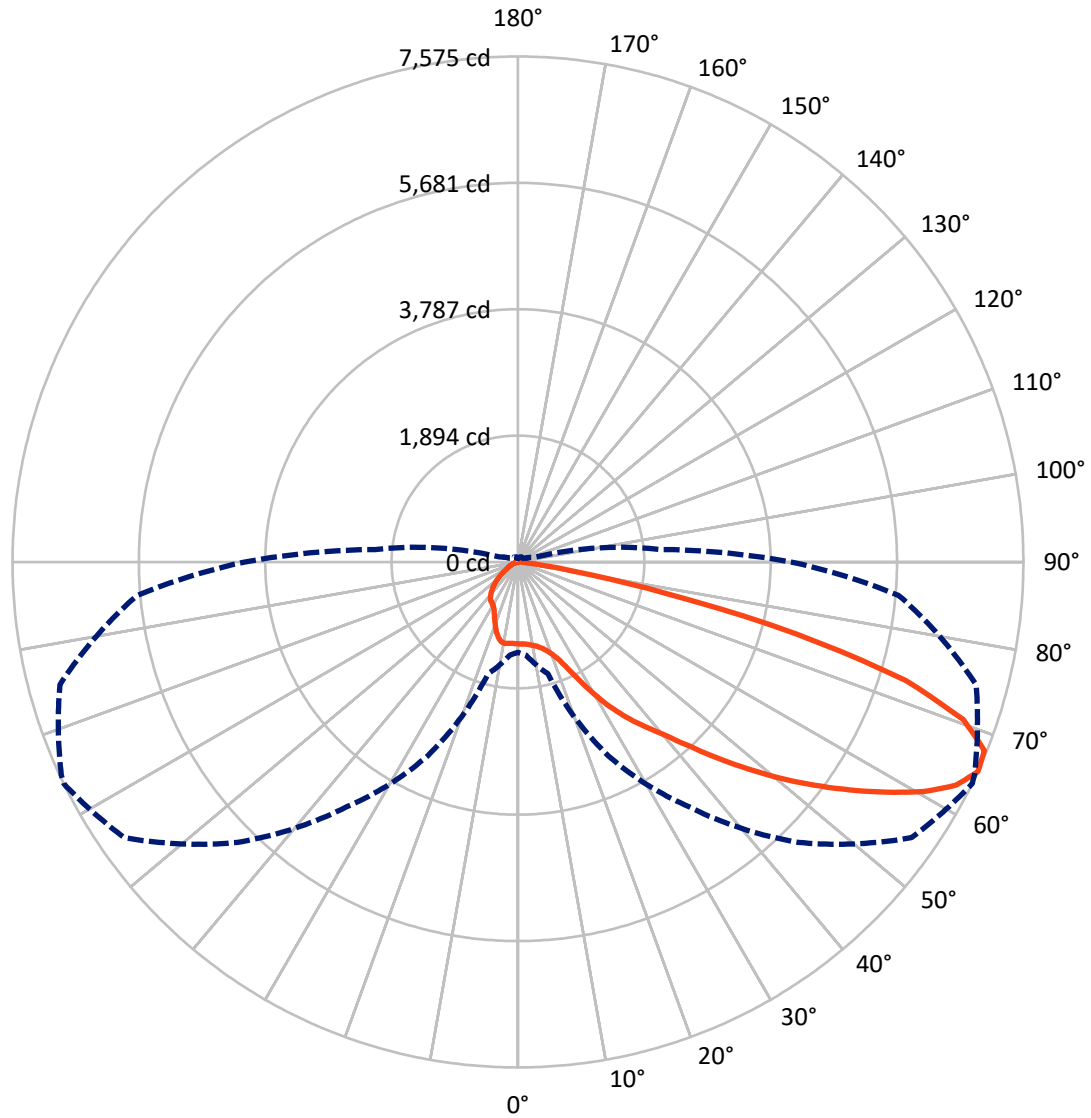
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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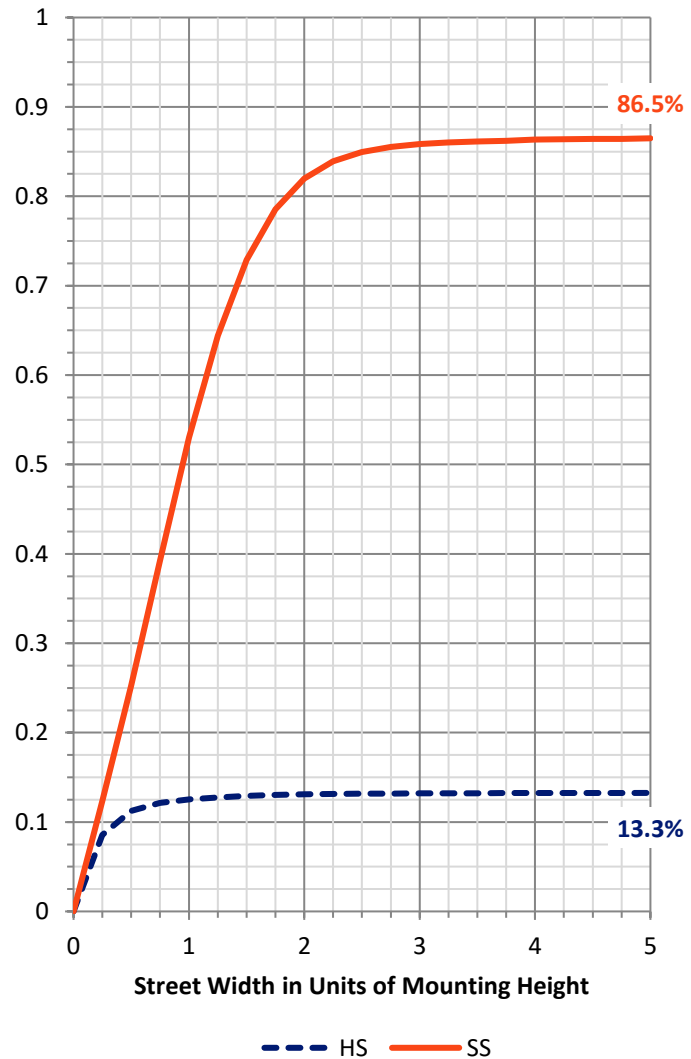
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1411.4	0.0	1411.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	9142.6	0.0	9142.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	10554.0	0.0	10554.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	1.1
10°-20°	307.2	2.9
20°-30°	582.1	5.5
30°-40°	1177.8	11.2
40°-50°	2006.4	19.0
50°-60°	2728.6	25.9
60°-70°	2562.3	24.3
70°-80°	1026.6	9.7
80°-90°	49.7	0.5
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°	10554.0	100.0
0°-180°	10554.0	100.0

Coefficient of Utilization



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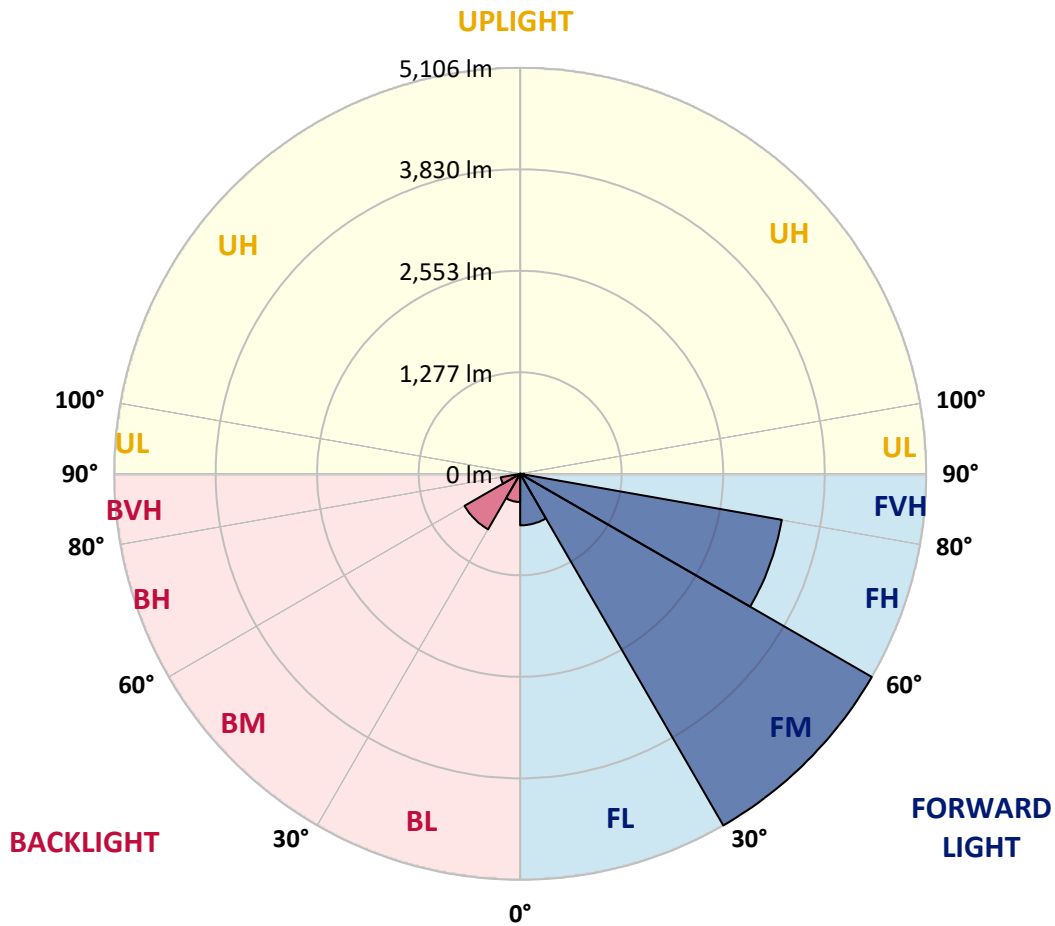
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	648.1	6.1			
FM (30°-60°)	5106.0	48.4			
FH (60°-80°)	3341.2	31.7			G2/5000
FVH (80°-90°)	47.3	0.4			G1/100
BL (0°-30°)	354.4	3.4	B1/500		
BM (30°-60°)	806.9	7.6	B1/1000		
BH (60°-80°)	247.7	2.3	B1/500		G1/500
BVH (80°-90°)	2.4	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1227.5	1227.5	1227.5	1227.5	1227.5	1227.5	1227.5	1227.5	1227.5	1227.5
2.5°	1223.3	1231.8	1229.7	1227.5	1226.8	1228.2	1229.0	1228.2	1228.2	1228.2
5°	1199.9	1207.0	1207.0	1212.0	1219.0	1227.5	1233.9	1235.3	1236.7	1238.9
7.5°	1155.4	1161.0	1165.3	1181.6	1199.2	1221.9	1241.0	1250.9	1252.3	1260.1
10°	1125.0	1132.0	1139.1	1156.1	1181.6	1215.5	1248.1	1272.1	1275.7	1294.0
12.5°	1123.5	1130.6	1139.8	1158.2	1187.9	1224.0	1263.6	1298.3	1304.7	1331.5
15°	1138.4	1146.9	1155.4	1178.0	1209.9	1253.7	1296.2	1339.3	1345.7	1383.9
17.5°	1168.8	1180.1	1186.5	1209.1	1243.1	1291.9	1347.8	1397.3	1403.0	1447.6
20°	1229.0	1242.4	1244.5	1262.9	1296.2	1348.5	1415.0	1476.6	1483.7	1534.6
22.5°	1353.5	1372.6	1355.6	1364.8	1394.5	1446.9	1519.0	1596.9	1606.8	1664.8
25°	1572.8	1599.7	1555.8	1540.3	1553.0	1607.5	1698.0	1796.4	1807.7	1854.4
27.5°	2003.7	1969.0	1902.5	1837.4	1799.2	1830.3	1932.2	2053.9	2068.1	2113.3
30°	2477.0	2446.6	2356.7	2212.4	2121.8	2116.9	2211.0	2346.8	2363.1	2406.3
32.5°	2951.0	2922.0	2824.4	2646.8	2489.7	2411.9	2477.0	2627.7	2636.2	2663.8
35°	3417.3	3387.6	3289.9	3108.1	2915.0	2738.1	2725.4	2895.2	2898.0	2927.0
37.5°	3886.4	3861.6	3757.6	3579.3	3389.0	3144.9	3026.8	3148.4	3152.0	3180.3
40°	4221.0	4231.7	4160.2	4022.2	3858.8	3592.1	3364.9	3418.0	3396.8	3444.2
42.5°	4508.3	4529.5	4467.3	4397.9	4303.1	4068.2	3783.8	3774.6	3740.6	3766.1
45°	4756.6	4774.3	4718.4	4702.1	4700.0	4535.2	4241.6	4186.4	4139.0	4134.0
47.5°	4847.9	4881.9	4905.9	4960.4	5066.5	4997.2	4714.9	4629.3	4576.2	4537.3
50°	4882.6	4918.6	5000.7	5159.2	5410.4	5440.1	5186.1	5089.9	5024.8	4954.0
52.5°	4835.9	4900.3	5010.6	5277.4	5641.7	5795.3	5638.2	5554.0	5479.7	5364.4
55°	4560.6	4625.0	4850.7	5275.9	5757.1	6044.3	6065.5	6028.0	5944.5	5762.7
57.5°	3980.5	4076.0	4433.3	5096.2	5754.9	6258.7	6484.4	6511.3	6417.9	6157.5
60°	3176.7	3306.2	3742.1	4697.9	5577.3	6374.7	6851.6	6986.0	6887.0	6546.6
62.5°	2216.6	2366.6	2779.1	4073.9	5171.2	6291.2	7119.7	7368.1	7293.1	6894.7
65°	1352.1	1400.2	1732.7	3205.8	4480.7	5941.7	7202.5	7574.7	7549.9	7107.7
67.5°	900.7	941.0	1036.5	2198.3	3478.1	5243.4	7004.4	7538.6	7545.7	7073.0
70°	542.7	577.3	639.6	1278.5	2254.1	4150.3	6391.0	7078.7	7119.7	6609.6
72.5°	223.6	246.9	303.5	579.5	1167.4	2634.1	5089.2	6077.6	6173.1	5557.5
75°	126.6	138.7	178.3	290.8	506.6	1227.5	3082.6	4314.4	4455.2	3830.5
77.5°	84.2	89.9	115.3	188.2	285.1	418.8	1317.4	2247.8	2516.6	2092.1
80°	56.6	61.6	79.2	125.9	185.4	179.7	419.6	832.7	1024.5	718.8
82.5°	38.2	38.9	56.6	82.8	117.4	87.0	123.8	259.0	325.5	208.0
85°	21.9	21.2	41.7	48.1	52.4	36.1	37.5	77.8	101.9	87.7
87.5°	2.8	4.2	16.3	12.7	7.1	7.8	7.8	13.4	19.8	21.2
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°
1227.5	0°	1227.5	1227.5	1227.5	1227.5	1227.5	1227.5	1227.5	1227.5	1227.5	1227.5
1229.0	2.5°	1229.0	1228.2	1226.1	1224.0	1219.0	1216.2	1217.6	1216.2	1215.5	1216.2
1238.2	5°	1238.2	1236.0	1230.4	1223.3	1213.4	1201.4	1193.6	1182.3	1171.6	1165.3
1262.9	7.5°	1262.9	1260.8	1253.0	1233.2	1201.4	1151.1	1105.1	1064.8	1034.4	1016.7
1302.5	10°	1302.5	1299.0	1287.0	1243.1	1159.6	1050.0	958.7	883.0	833.5	810.1
1349.2	12.5°	1349.2	1345.0	1323.8	1233.9	1080.4	909.2	783.2	699.0	653.0	632.5
1403.0	15°	1404.4	1398.8	1357.0	1190.0	965.1	753.5	638.2	575.2	545.5	527.1
1471.6	17.5°	1473.0	1463.1	1381.8	1124.2	839.8	634.6	549.0	501.6	475.5	457.8
1561.5	20°	1562.2	1545.9	1401.6	1045.7	724.5	559.6	488.9	449.3	429.5	413.9
1688.8	22.5°	1686.7	1663.4	1425.6	960.8	643.1	508.0	444.3	415.3	399.0	381.4
1866.4	25°	1841.0	1813.4	1455.4	882.3	587.2	463.4	411.8	387.7	368.6	348.1
2099.2	27.5°	2056.7	2007.2	1490.7	817.9	539.1	425.2	382.1	355.2	333.2	316.3
2363.1	30°	2297.3	2215.9	1521.9	779.0	495.3	389.8	343.1	316.3	295.7	283.7
2600.1	32.5°	2525.1	2414.8	1542.4	762.0	455.6	349.5	300.7	271.7	256.1	252.6
2832.2	35°	2740.2	2594.5	1540.3	745.7	420.3	309.2	259.0	229.2	217.2	219.3
3081.9	37.5°	2987.8	2786.2	1525.4	720.3	391.3	272.4	222.9	196.7	186.1	186.8
3385.5	40°	3275.8	3007.6	1516.2	672.1	359.4	238.4	193.2	171.9	164.1	161.3
3705.3	42.5°	3582.9	3222.0	1517.6	617.7	319.8	208.0	172.6	154.9	147.9	145.7
4061.1	45°	3891.3	3426.5	1519.7	561.1	278.1	184.7	157.8	142.9	138.7	135.8
4422.0	47.5°	4181.4	3600.5	1480.1	500.2	237.0	167.0	145.7	135.8	132.3	128.8
4784.2	50°	4451.7	3716.6	1384.6	429.5	204.5	152.8	136.6	129.5	125.9	122.4
5112.5	52.5°	4661.8	3735.0	1226.8	356.6	181.8	142.2	130.9	124.5	120.3	116.7
5377.8	55°	4755.2	3619.7	1002.5	288.7	164.1	133.0	125.2	118.9	113.9	110.4
5586.5	57.5°	4731.2	3377.0	781.8	232.1	147.2	123.8	118.2	113.9	108.2	102.6
5755.6	60°	4613.0	3052.2	589.4	193.2	131.6	113.9	110.4	106.8	99.1	90.6
5820.7	62.5°	4408.5	2644.0	420.3	159.9	114.6	102.6	101.2	98.3	87.0	71.5
5724.5	65°	4095.8	2148.0	283.0	133.0	98.3	89.9	90.6	85.6	70.8	53.1
5372.2	67.5°	3638.8	1570.7	181.1	109.0	82.1	75.0	75.7	72.9	60.1	45.3
4704.3	70°	3056.5	1040.0	118.2	82.8	65.8	58.0	62.3	63.0	50.9	36.8
3610.5	72.5°	2240.7	614.1	82.8	61.6	48.1	40.3	50.9	52.4	41.0	27.6
2172.1	75°	1277.1	291.5	62.3	44.6	29.7	28.3	39.6	39.6	28.3	18.4
940.3	77.5°	536.3	121.7	43.9	29.0	17.0	16.3	26.9	24.8	14.2	8.5
229.2	80°	154.9	54.5	23.3	14.2	7.1	6.4	10.6	7.8	3.5	1.4
87.0	82.5°	60.8	24.1	9.2	5.7	2.8	2.8	1.4	0.0	0.0	0.0
49.5	85°	36.1	9.9	4.2	2.1	0.7	0.0	0.0	0.0	0.0	0.0
10.6	87.5°	9.2	2.1	1.4	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>
1227.5
1219.0
1166.7
1017.4
808.0
630.4
527.8
456.3
411.1
378.5
346.0
312.7
281.6
254.7
219.3
189.6
160.6
145.0
135.8
128.8
122.4
116.0
109.7
101.9
89.1
70.0
51.6
43.2
35.4
26.2
17.0
8.5
1.4
0.0
0.0
0.0
0.0

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