

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: P939036

Luminaire Tested: **GALN-SB1B-940-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939036
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-SB1B-940-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3201 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

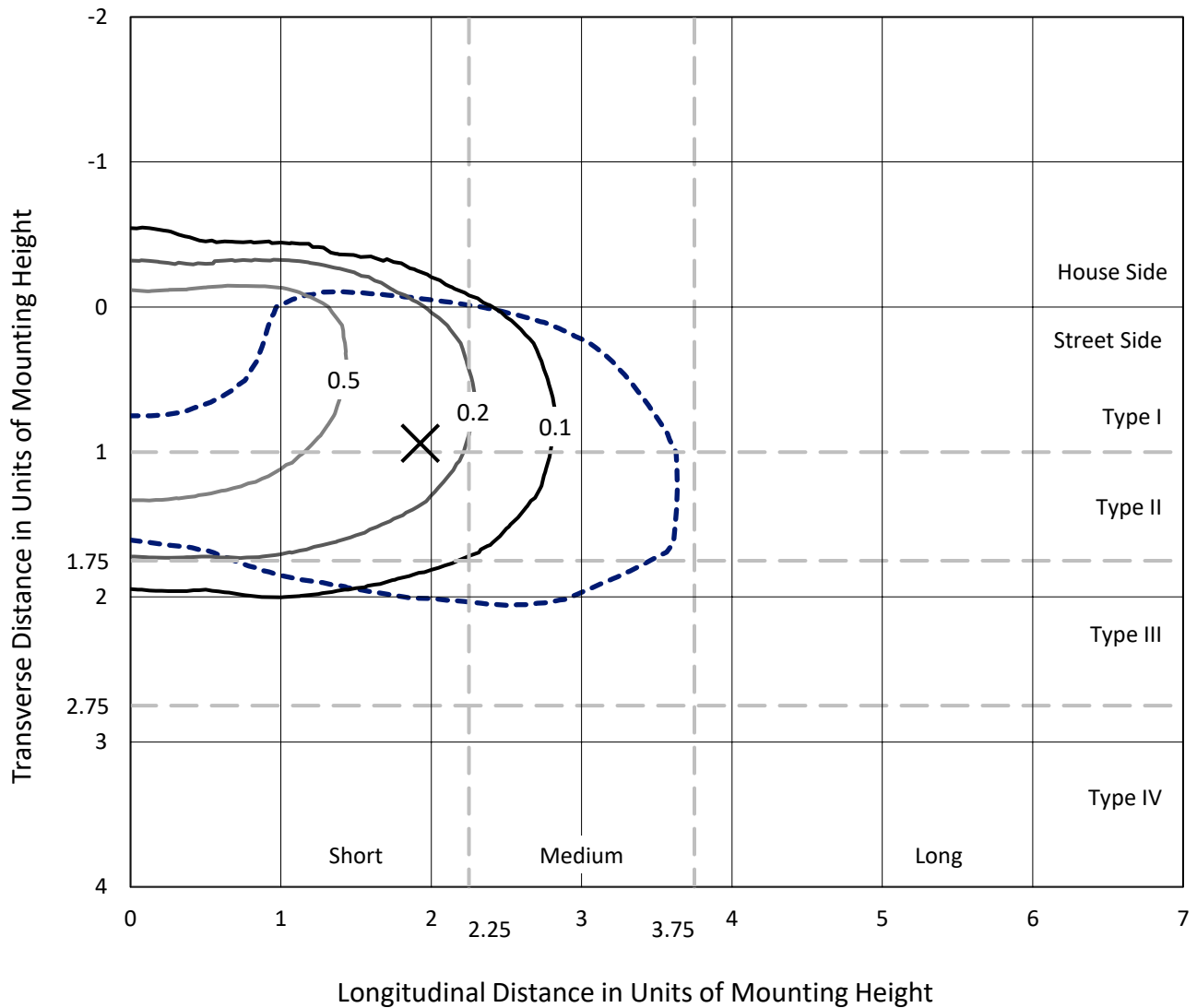
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

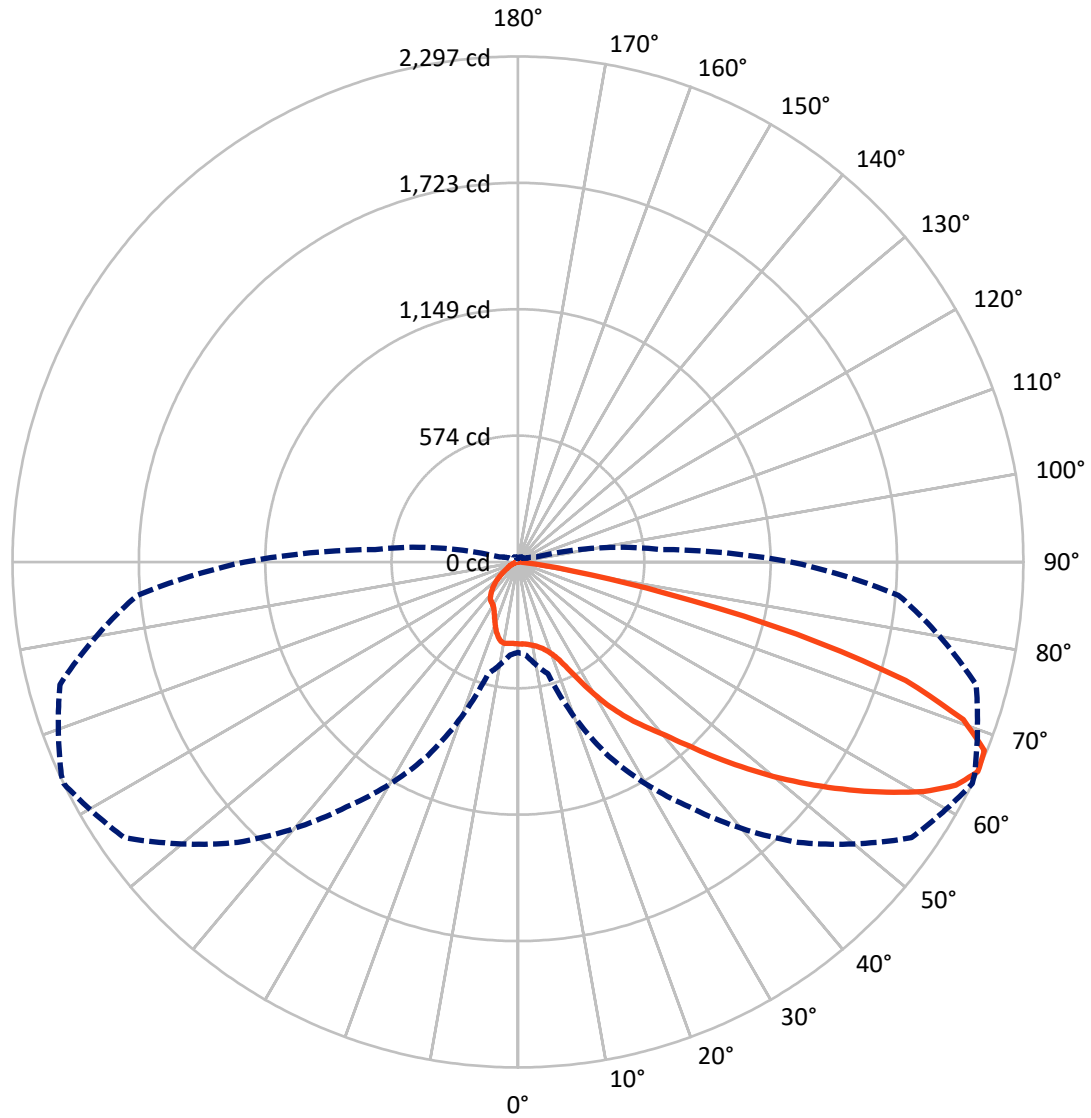
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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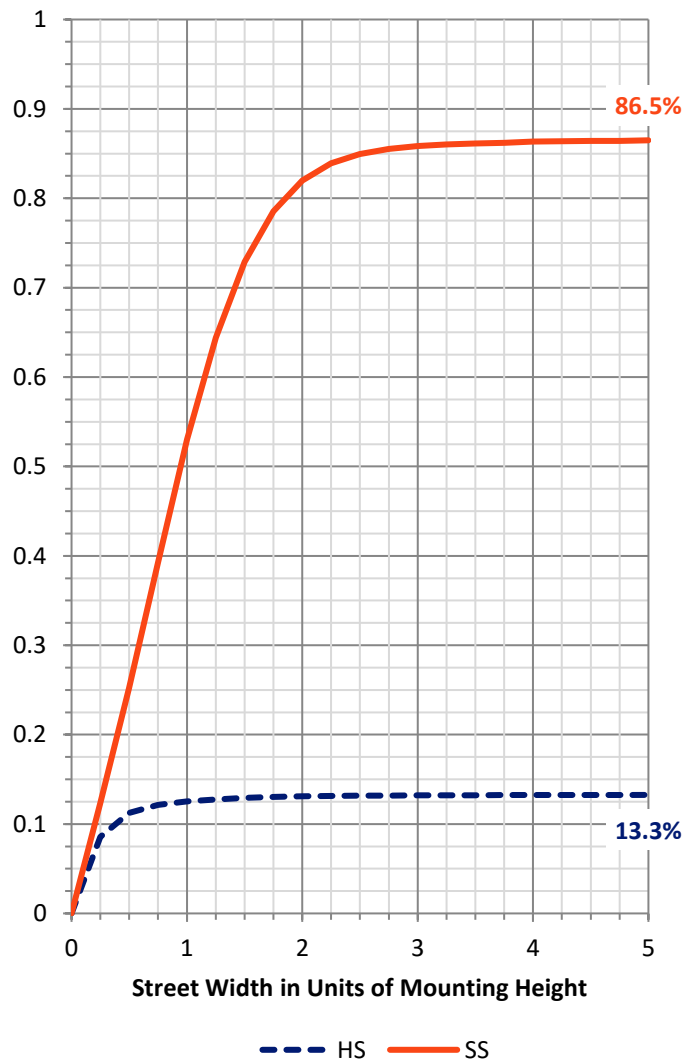
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	428.1	0.0	428.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	2772.9	0.0	2772.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	3201.0	0.0	3201.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.3	1.1
10°-20°	93.2	2.9
20°-30°	176.5	5.5
30°-40°	357.2	11.2
40°-50°	608.5	19.0
50°-60°	827.6	25.9
60°-70°	777.1	24.3
70°-80°	311.4	9.7
80°-90°	15.1	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°	3201.0	100.0
0°-180°	3201.0	100.0

Coefficient of Utilization



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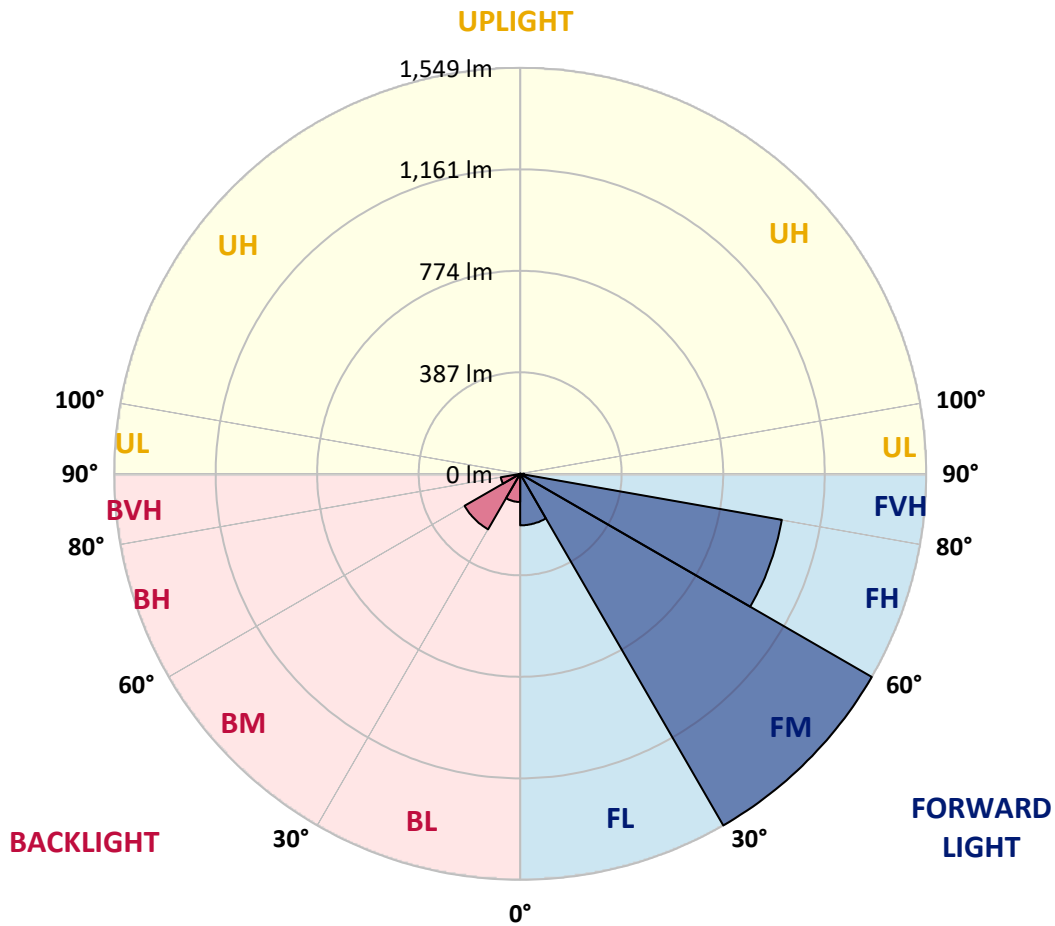
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.6	6.1			
FM (30°-60°)	1548.6	48.4			
FH (60°-80°)	1013.4	31.7			G1/1800
FVH (80°-90°)	14.3	0.4			G1/100
BL (0°-30°)	107.5	3.4	B0/110		
BM (30°-60°)	244.7	7.6	B1/1000		
BH (60°-80°)	75.1	2.3	B0/110		G0/110
BVH (80°-90°)	0.7	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	372.3	372.3	372.3	372.3	372.3	372.3	372.3	372.3	372.3	372.3
2.5°	371.0	373.6	373.0	372.3	372.1	372.5	372.7	372.5	372.5	372.5
5°	363.9	366.1	366.1	367.6	369.7	372.3	374.2	374.7	375.1	375.7
7.5°	350.4	352.1	353.4	358.4	363.7	370.6	376.4	379.4	379.8	382.2
10°	341.2	343.3	345.5	350.6	358.4	368.7	378.5	385.8	386.9	392.5
12.5°	340.8	342.9	345.7	351.3	360.3	371.2	383.3	393.8	395.7	403.9
15°	345.3	347.8	350.4	357.3	366.9	380.2	393.1	406.2	408.1	419.7
17.5°	354.5	357.9	359.9	366.7	377.0	391.8	408.8	423.8	425.5	439.0
20°	372.7	376.8	377.5	383.0	393.1	409.0	429.2	447.8	450.0	465.4
22.5°	410.5	416.3	411.1	413.9	423.0	438.8	460.7	484.3	487.3	504.9
25°	477.0	485.2	471.9	467.2	471.0	487.5	515.0	544.8	548.3	562.4
27.5°	607.7	597.2	577.0	557.3	545.7	555.1	586.0	622.9	627.2	641.0
30°	751.3	742.0	714.8	671.0	643.5	642.0	670.6	711.8	716.7	729.8
32.5°	895.0	886.2	856.6	802.8	755.1	731.5	751.3	797.0	799.6	807.9
35°	1036.5	1027.4	997.8	942.7	884.1	830.5	826.6	878.1	879.0	887.7
37.5°	1178.7	1171.2	1139.7	1085.6	1027.9	953.8	918.0	954.9	956.0	964.6
40°	1280.2	1283.4	1261.8	1219.9	1170.4	1089.5	1020.6	1036.7	1030.2	1044.6
42.5°	1367.4	1373.8	1354.9	1333.9	1305.1	1233.9	1147.6	1144.8	1134.5	1142.2
45°	1442.7	1448.0	1431.1	1426.1	1425.5	1375.5	1286.5	1269.7	1255.3	1253.8
47.5°	1470.4	1480.7	1488.0	1504.5	1536.7	1515.6	1430.0	1404.0	1388.0	1376.2
50°	1480.9	1491.8	1516.7	1564.8	1641.0	1650.0	1572.9	1543.7	1524.0	1502.5
52.5°	1466.7	1486.2	1519.7	1600.6	1711.1	1757.7	1710.0	1684.5	1662.0	1627.0
55°	1383.2	1402.8	1471.2	1600.2	1746.1	1833.2	1839.7	1828.3	1803.0	1747.8
57.5°	1207.3	1236.2	1344.6	1545.7	1745.5	1898.2	1966.7	1974.8	1946.5	1867.6
60°	963.5	1002.8	1135.0	1424.9	1691.6	1933.4	2078.1	2118.8	2088.8	1985.6
62.5°	672.3	717.8	842.9	1235.6	1568.4	1908.1	2159.4	2234.7	2212.0	2091.2
65°	410.1	424.7	525.5	972.3	1359.0	1802.1	2184.5	2297.4	2289.9	2155.7
67.5°	273.2	285.4	314.4	666.7	1054.9	1590.3	2124.4	2286.4	2288.6	2145.2
70°	164.6	175.1	194.0	387.8	683.7	1258.8	1938.4	2146.9	2159.4	2004.7
72.5°	67.8	74.9	92.1	175.7	354.1	798.9	1543.5	1843.3	1872.3	1685.6
75°	38.4	42.1	54.1	88.2	153.6	372.3	935.0	1308.6	1351.3	1161.8
77.5°	25.5	27.3	35.0	57.1	86.5	127.0	399.6	681.7	763.3	634.5
80°	17.2	18.7	24.0	38.2	56.2	54.5	127.3	252.6	310.7	218.0
82.5°	11.6	11.8	17.2	25.1	35.6	26.4	37.6	78.5	98.7	63.1
85°	6.7	6.4	12.7	14.6	15.9	10.9	11.4	23.6	30.9	26.6
87.5°	0.9	1.3	4.9	3.9	2.1	2.4	2.4	4.1	6.0	6.4
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°
372.3	0°	372.3	372.3	372.3	372.3	372.3	372.3	372.3	372.3	372.3	372.3
372.7	2.5°	372.7	372.5	371.9	371.2	369.7	368.9	369.3	368.9	368.7	368.9
375.5	5°	375.5	374.9	373.2	371.0	368.0	364.4	362.0	358.6	355.4	353.4
383.0	7.5°	383.0	382.4	380.0	374.0	364.4	349.1	335.2	323.0	313.7	308.4
395.1	10°	395.1	394.0	390.3	377.0	351.7	318.4	290.8	267.8	252.8	245.7
409.2	12.5°	409.2	407.9	401.5	374.2	327.7	275.7	237.5	212.0	198.1	191.8
425.5	15°	426.0	424.2	411.6	360.9	292.7	228.5	193.6	174.5	165.4	159.9
446.3	17.5°	446.8	443.8	419.1	341.0	254.7	192.5	166.5	152.1	144.2	138.8
473.6	20°	473.8	468.9	425.1	317.2	219.7	169.7	148.3	136.3	130.3	125.5
512.2	22.5°	511.6	504.5	432.4	291.4	195.1	154.1	134.8	126.0	121.0	115.7
566.1	25°	558.4	550.0	441.4	267.6	178.1	140.6	124.9	117.6	111.8	105.6
636.7	27.5°	623.8	608.8	452.1	248.1	163.5	129.0	115.9	107.7	101.1	95.9
716.7	30°	696.8	672.1	461.6	236.3	150.2	118.2	104.1	95.9	89.7	86.0
788.6	32.5°	765.9	732.4	467.8	231.1	138.2	106.0	91.2	82.4	77.7	76.6
859.0	35°	831.1	786.9	467.2	226.2	127.5	93.8	78.5	69.5	65.9	66.5
934.7	37.5°	906.2	845.0	462.7	218.5	118.7	82.6	67.6	59.7	56.4	56.7
1026.8	40°	993.5	912.2	459.9	203.9	109.0	72.3	58.6	52.1	49.8	48.9
1123.8	42.5°	1086.7	977.2	460.3	187.3	97.0	63.1	52.4	47.0	44.8	44.2
1231.7	45°	1180.2	1039.2	460.9	170.2	84.3	56.0	47.9	43.3	42.1	41.2
1341.2	47.5°	1268.2	1092.0	448.9	151.7	71.9	50.6	44.2	41.2	40.1	39.1
1451.0	50°	1350.2	1127.2	419.9	130.3	62.0	46.4	41.4	39.3	38.2	37.1
1550.6	52.5°	1413.9	1132.8	372.1	108.2	55.1	43.1	39.7	37.8	36.5	35.4
1631.1	55°	1442.2	1097.8	304.1	87.6	49.8	40.3	38.0	36.1	34.5	33.5
1694.4	57.5°	1434.9	1024.2	237.1	70.4	44.6	37.6	35.8	34.5	32.8	31.1
1745.7	60°	1399.1	925.7	178.8	58.6	39.9	34.5	33.5	32.4	30.0	27.5
1765.4	62.5°	1337.1	801.9	127.5	48.5	34.8	31.1	30.7	29.8	26.4	21.7
1736.2	65°	1242.2	651.5	85.8	40.3	29.8	27.3	27.5	26.0	21.5	16.1
1629.4	67.5°	1103.6	476.4	54.9	33.0	24.9	22.7	23.0	22.1	18.2	13.7
1426.8	70°	927.0	315.4	35.8	25.1	20.0	17.6	18.9	19.1	15.5	11.2
1095.0	72.5°	679.6	186.3	25.1	18.7	14.6	12.2	15.5	15.9	12.4	8.4
658.8	75°	387.3	88.4	18.9	13.5	9.0	8.6	12.0	12.0	8.6	5.6
285.2	77.5°	162.7	36.9	13.3	8.8	5.2	4.9	8.2	7.5	4.3	2.6
69.5	80°	47.0	16.5	7.1	4.3	2.1	1.9	3.2	2.4	1.1	0.4
26.4	82.5°	18.5	7.3	2.8	1.7	0.9	0.9	0.4	0.0	0.0	0.0
15.0	85°	10.9	3.0	1.3	0.6	0.2	0.0	0.0	0.0	0.0	0.0
3.2	87.5°	2.8	0.6	0.4	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>
372.3
369.7
353.9
308.6
245.1
191.2
160.1
138.4
124.7
114.8
104.9
94.8
85.4
77.3
66.5
57.5
48.7
44.0
41.2
39.1
37.1
35.2
33.3
30.9
27.0
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