

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: P945284

Luminaire Tested: **GALN-SB1B-740-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5046 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

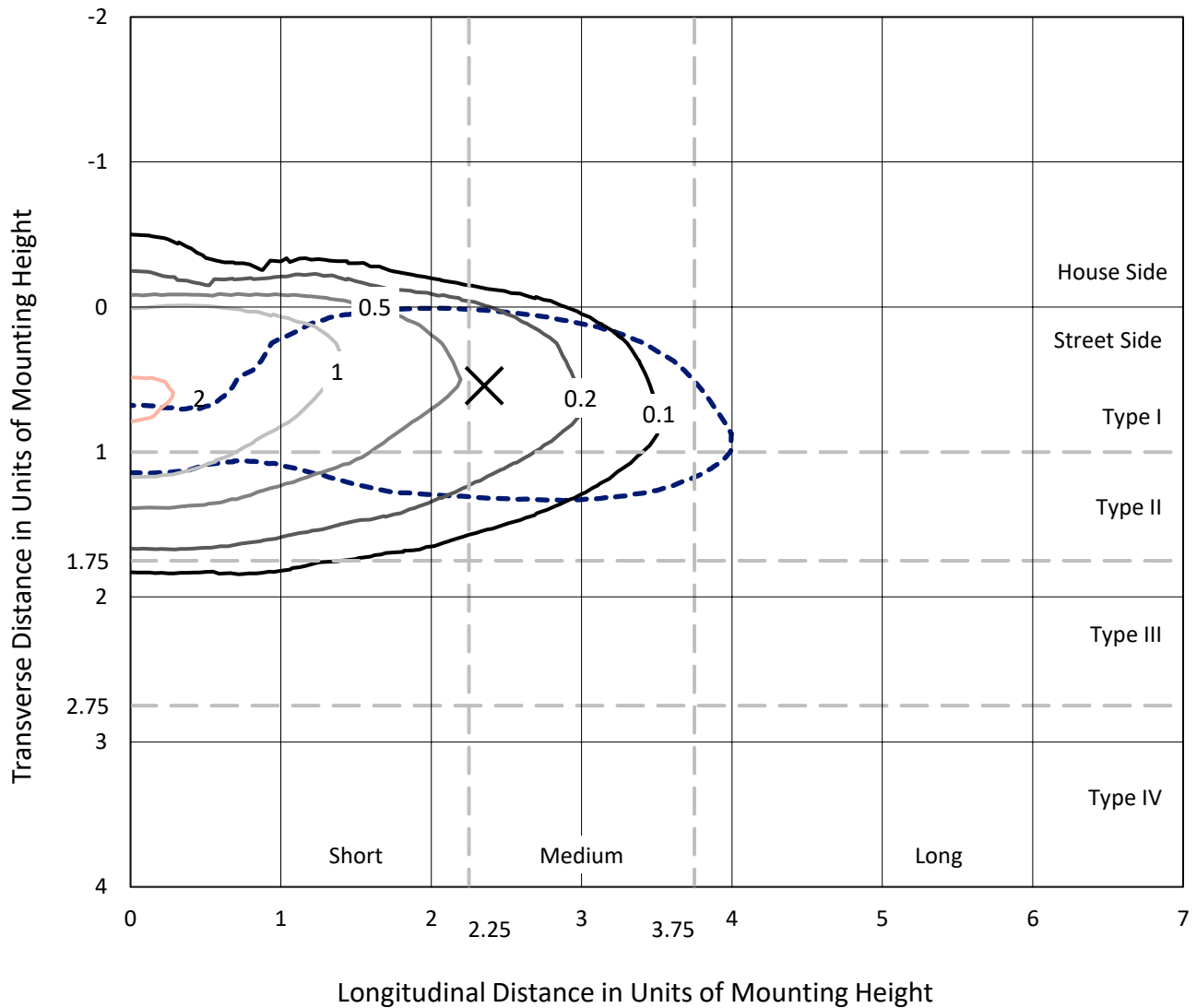
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

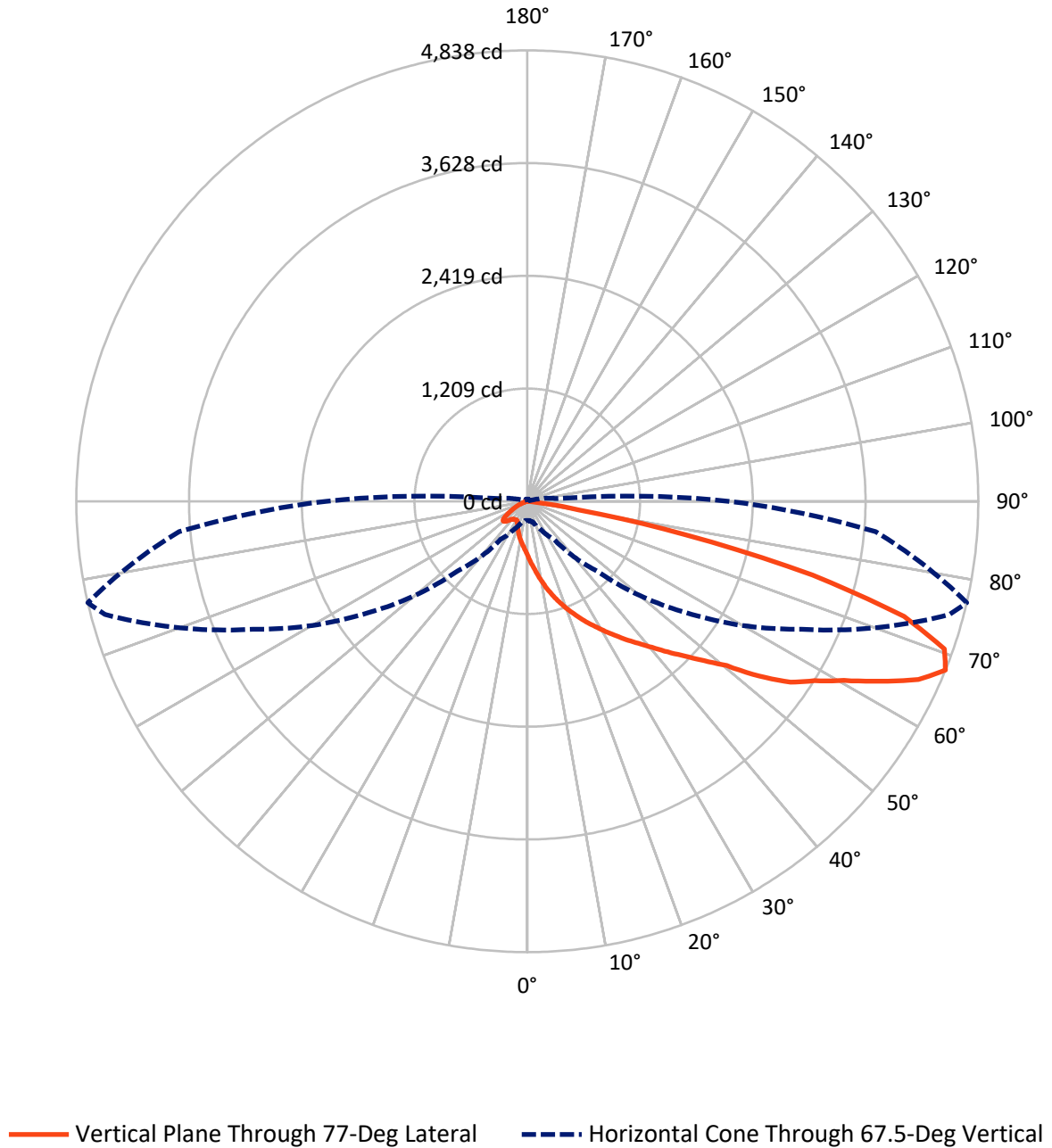
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	371.2	0.0	371.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	4674.8	0.0	4674.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	5046.0	0.0	5046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	1.2
10°-20°	208.0	4.1
20°-30°	401.3	8.0
30°-40°	696.7	13.8
40°-50°	1011.6	20.0
50°-60°	1161.7	23.0
60°-70°	1008.6	20.0
70°-80°	475.1	9.4
80°-90°	23.5	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°	5046.0	100.0
0°-180°	5046.0	100.0

Coefficient of Utilization



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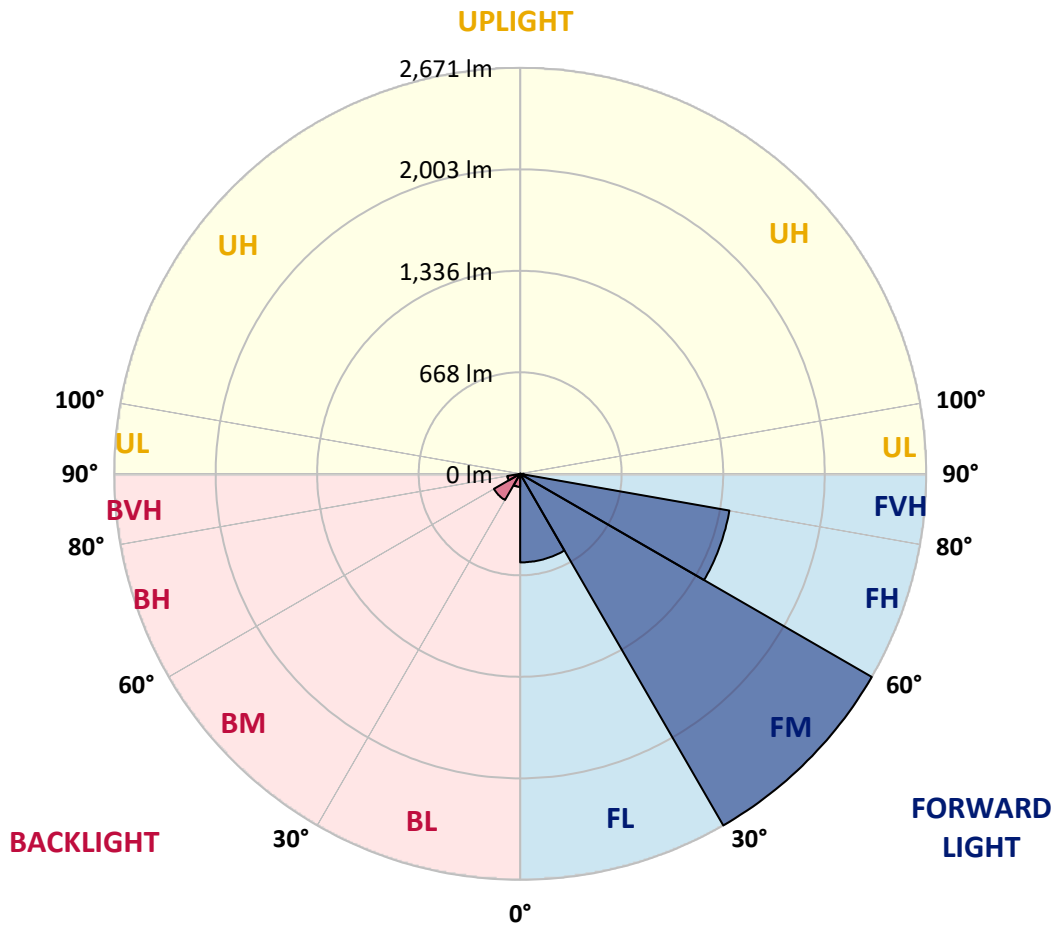
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	582.8	11.5			
FM (30°-60°)	2671.2	52.9			
FH (60°-80°)	1397.7	27.7			G1/1800
FVH (80°-90°)	23.1	0.5			G1/100
BL (0°-30°)	85.9	1.7	B0/110		
BM (30°-60°)	198.9	3.9	B0/220		
BH (60°-80°)	85.9	1.7	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9
2.5°	805.6	810.6	803.4	789.6	768.9	755.5	722.6	691.5	657.1	646.1
5°	982.0	986.4	978.3	963.2	935.6	909.3	866.1	801.2	733.8	712.2
7.5°	1112.7	1115.2	1112.1	1098.3	1071.9	1042.2	993.9	917.2	817.2	793.4
10°	1206.7	1214.8	1213.9	1208.6	1191.0	1166.9	1115.5	1028.1	910.6	879.9
12.5°	1269.0	1278.1	1283.5	1295.4	1294.4	1279.1	1233.9	1141.5	1003.6	967.6
15°	1287.2	1296.9	1317.3	1344.9	1369.3	1377.1	1345.5	1252.7	1106.1	1060.0
17.5°	1276.9	1291.9	1316.4	1359.9	1413.5	1448.9	1445.5	1360.2	1199.2	1146.5
20°	1299.7	1314.2	1333.3	1369.9	1432.3	1496.5	1522.2	1463.0	1291.6	1236.5
22.5°	1426.3	1423.8	1425.7	1431.7	1469.0	1532.6	1585.5	1556.4	1383.1	1326.7
25°	1626.9	1615.6	1596.5	1564.2	1554.8	1585.5	1640.7	1639.1	1479.6	1419.1
27.5°	1856.9	1855.0	1810.2	1732.5	1688.6	1676.7	1703.0	1719.6	1575.2	1510.6
30°	2077.2	2082.2	2021.7	1935.2	1854.7	1808.0	1784.2	1796.1	1672.3	1609.3
32.5°	2268.9	2274.2	2208.4	2107.2	2007.6	1951.2	1901.1	1871.6	1778.2	1709.6
35°	2430.9	2436.2	2360.7	2248.9	2142.6	2091.6	2034.8	1954.3	1884.8	1820.8
37.5°	2575.7	2574.1	2472.9	2360.1	2255.8	2215.3	2185.6	2056.2	1994.4	1932.7
40°	2661.2	2667.8	2581.3	2456.9	2355.7	2326.3	2324.4	2182.4	2121.0	2061.2
42.5°	2686.3	2697.9	2635.2	2533.1	2441.3	2409.3	2458.5	2319.1	2268.3	2210.0
45°	2641.2	2652.4	2623.9	2553.1	2499.5	2478.9	2573.8	2460.7	2425.6	2367.9
47.5°	2509.6	2523.7	2530.6	2515.5	2514.9	2535.9	2677.2	2609.8	2612.3	2553.4
50°	2254.8	2278.6	2341.9	2395.2	2477.6	2581.0	2777.8	2771.5	2822.9	2772.1
52.5°	1791.7	1825.5	2043.6	2189.3	2374.5	2572.5	2888.4	3031.0	3192.3	3118.1
55°	1439.8	1439.8	1617.2	1889.8	2173.3	2516.8	2936.7	3199.5	3444.0	3426.4
57.5°	1173.8	1187.9	1301.0	1542.0	1882.3	2383.9	2966.4	3305.5	3646.7	3633.8
60°	724.4	754.8	968.5	1206.4	1551.0	2147.3	2947.6	3412.6	3892.7	3903.0
62.5°	408.0	419.3	514.5	868.0	1206.1	1829.3	2803.8	3472.5	4207.3	4251.1
65°	281.7	287.3	324.0	540.2	836.0	1456.4	2522.7	3435.2	4522.5	4611.2
67.5°	204.6	207.4	230.3	330.0	496.0	1056.0	2082.2	3247.2	4689.5	4837.7
70°	157.3	159.2	175.8	216.8	293.0	651.8	1512.2	2873.4	4568.5	4745.6
72.5°	127.8	129.7	142.6	160.4	194.3	385.4	916.5	2333.5	4034.6	4225.7
75°	107.8	110.3	121.9	133.5	152.3	247.5	429.9	1625.0	3034.1	3159.4
77.5°	59.8	55.1	99.0	110.6	128.5	156.7	201.2	956.3	1699.3	1734.0
80°	37.3	38.5	78.6	89.0	98.7	79.0	92.1	368.2	589.1	559.6
82.5°	2.2	5.0	60.5	64.2	67.7	33.8	34.8	125.0	141.9	130.4
85°	0.0	0.0	27.6	22.2	23.5	9.7	10.0	29.1	19.1	20.7
87.5°	0.0	0.0	0.0	0.6	0.0	0.9	1.9	2.5	0.9	1.3
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°
581.9	0°	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9
611.6	2.5°	589.7	567.8	523.3	479.7	444.3	411.4	387.9	365.7	354.4	353.8
651.1	5°	607.6	561.5	472.5	393.9	330.6	279.8	246.9	223.4	211.5	207.4
699.7	7.5°	632.6	563.4	428.0	318.7	244.1	200.5	181.7	174.2	171.7	168.9
754.5	10°	664.3	567.8	388.2	256.6	192.4	170.5	162.9	159.8	157.9	156.0
816.3	12.5°	699.7	571.9	348.8	213.1	169.2	157.9	152.6	148.8	146.3	144.1
879.6	15°	734.2	574.4	307.7	182.7	157.3	148.2	142.6	138.5	135.1	132.5
941.6	17.5°	768.3	577.8	269.2	164.5	147.6	138.5	132.9	127.8	125.0	122.2
1006.8	20°	806.2	577.2	232.8	151.7	137.9	128.8	122.8	118.1	115.3	112.2
1075.7	22.5°	841.3	574.0	200.9	140.7	127.8	119.1	112.5	107.8	105.0	102.5
1146.2	25°	881.7	571.5	174.2	130.7	118.4	109.7	102.5	98.1	94.9	92.7
1217.0	27.5°	920.6	567.8	154.8	121.6	109.4	100.9	94.0	89.0	86.2	84.6
1290.0	30°	958.8	566.8	147.6	112.8	101.2	92.7	85.9	81.2	79.0	78.3
1370.2	32.5°	1004.9	569.3	150.7	109.7	93.7	85.2	78.6	75.2	73.0	73.0
1459.6	35°	1054.1	568.7	155.4	112.5	88.7	77.7	72.7	70.5	68.3	68.3
1558.6	37.5°	1115.8	569.7	159.2	117.2	86.8	71.4	68.6	65.8	64.5	64.5
1667.0	40°	1207.9	600.7	157.3	121.3	86.2	67.1	61.4	60.5	59.5	59.5
1789.5	42.5°	1320.7	668.0	159.8	121.6	85.9	63.9	56.4	58.3	56.1	55.8
1927.7	45°	1444.2	741.7	175.8	115.0	85.5	62.4	53.9	56.1	52.6	52.6
2087.8	47.5°	1566.7	814.7	192.1	105.6	84.6	62.0	51.7	50.4	49.5	49.8
2296.5	50°	1735.6	874.2	198.3	92.7	82.4	61.4	47.6	47.9	47.3	47.9
2590.7	52.5°	1919.5	886.8	190.8	78.3	76.1	59.5	44.8	46.1	45.7	46.4
2797.8	55°	2034.2	873.3	157.6	65.2	66.4	52.0	42.0	44.5	44.5	44.5
3000.3	57.5°	2152.7	815.9	111.9	53.0	55.1	42.6	39.5	42.9	42.6	42.3
3244.0	60°	2237.9	723.2	73.6	43.6	43.9	35.1	36.7	40.4	40.1	38.5
3495.3	62.5°	2301.5	620.7	47.3	37.0	33.5	31.6	33.5	36.7	35.4	32.0
3708.4	65°	2294.3	478.8	36.3	31.6	27.6	27.6	29.1	32.0	28.2	22.6
3749.1	67.5°	2160.5	324.0	30.1	26.6	23.2	22.9	24.1	26.6	24.1	19.1
3540.5	70°	1921.4	211.8	24.1	20.7	18.5	16.9	19.4	22.9	20.4	15.4
3014.0	72.5°	1559.5	129.1	18.2	15.0	13.5	11.0	15.4	18.8	16.3	11.3
2096.0	75°	1009.0	65.8	12.5	9.7	7.2	6.6	11.3	14.1	11.3	6.9
930.0	77.5°	386.0	27.6	6.9	4.4	3.8	3.1	6.3	8.5	4.7	1.6
180.2	80°	74.3	11.6	3.4	2.2	1.9	1.3	0.9	0.6	0.0	0.0
32.0	82.5°	12.8	3.8	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
6.3	85°	4.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.2	87.5°	1.6	0.0	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>
581.9
353.1
206.8
168.3
155.4
143.5
132.2
121.9
111.9
102.1
92.4
84.6
78.0
73.0
68.3
64.5
59.5
55.5
52.6
49.8
47.9
46.4
44.5
42.3
38.5
31.3
21.9
18.5
14.7
10.7
6.0
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