

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: P945761

Luminaire Tested: **GALN-SB1C-840-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5771 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

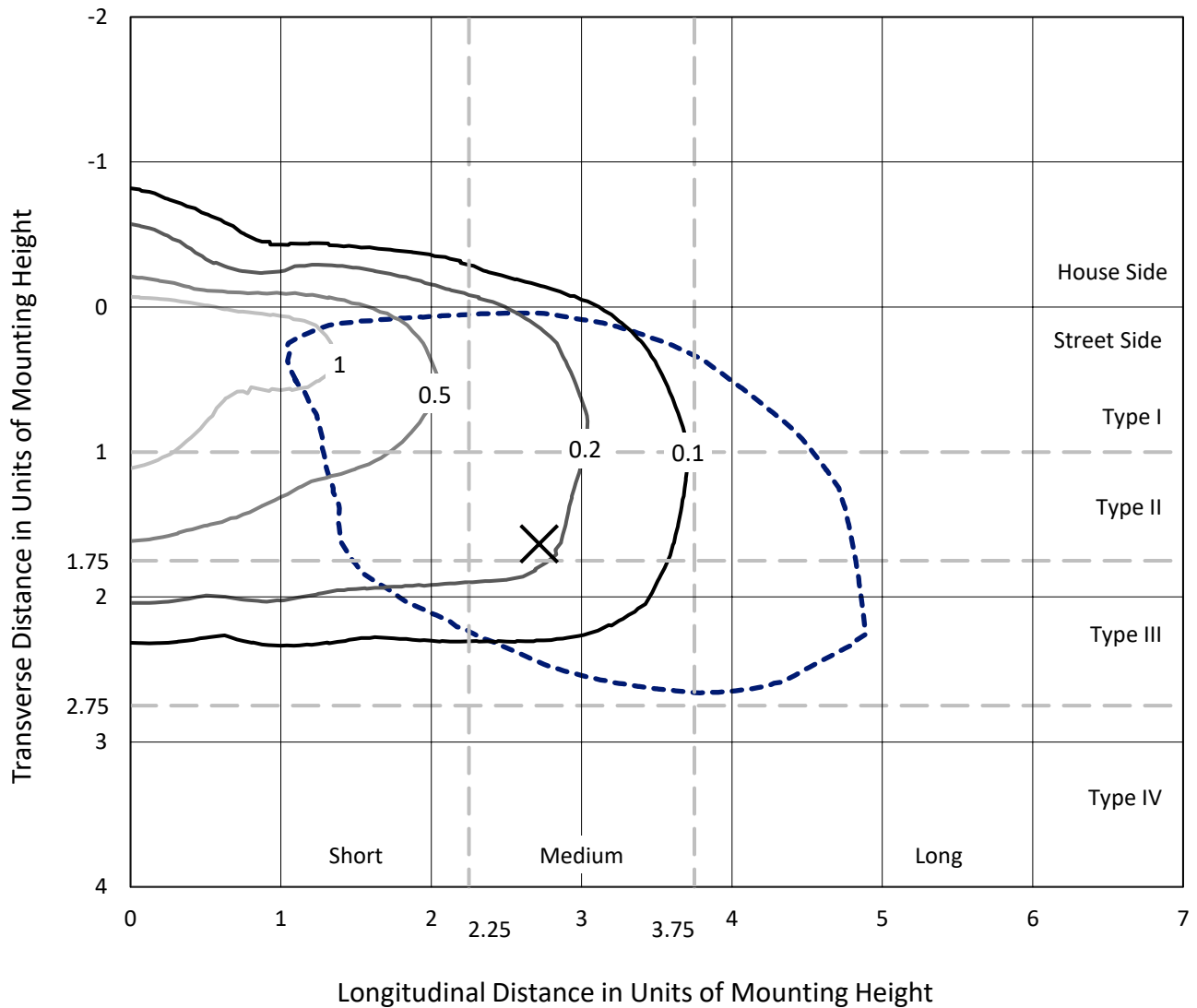
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

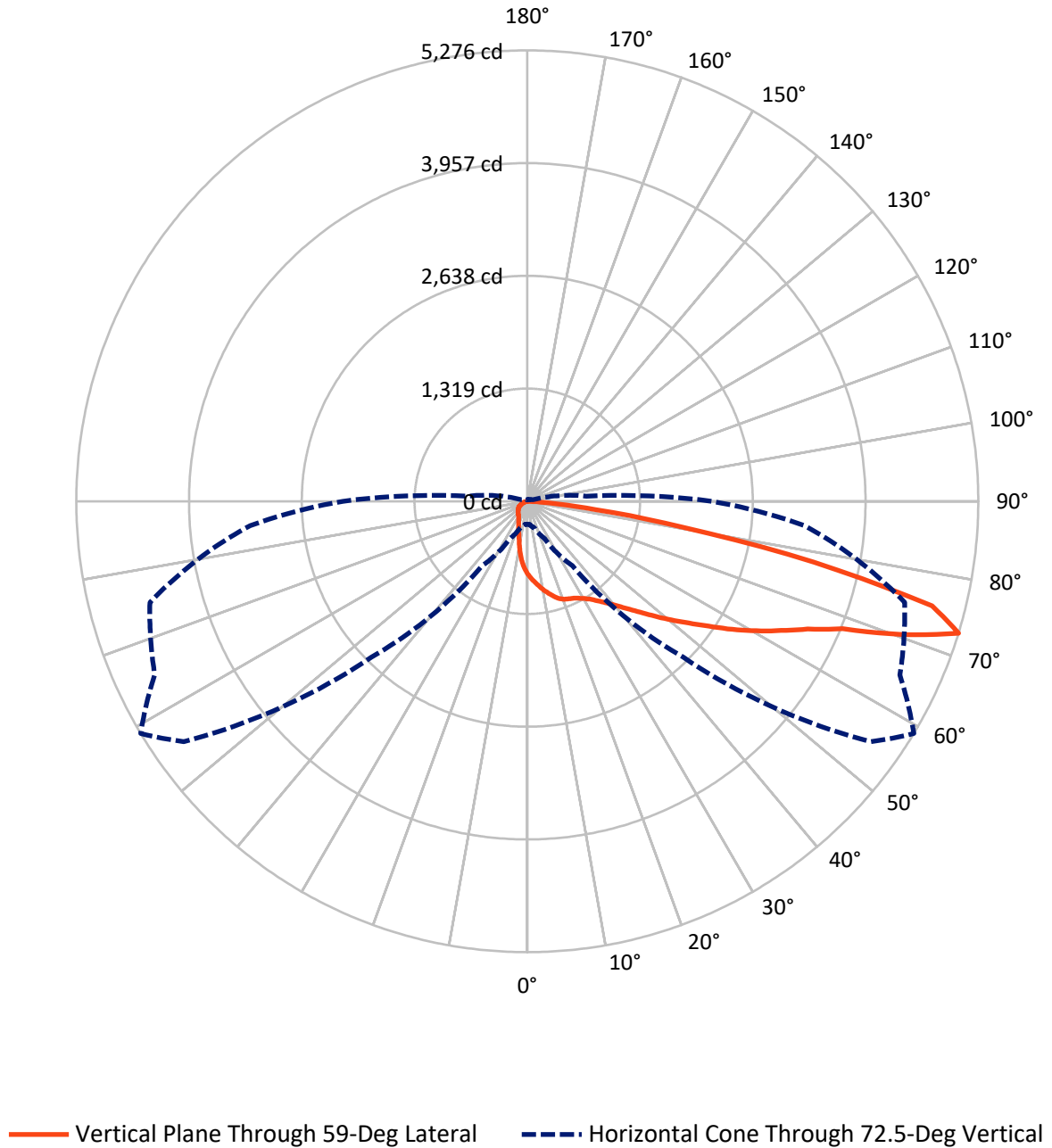
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	609.5	0.0	609.5
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5161.5	0.0	5161.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	5771.0	0.0	5771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	1.3
10°-20°	205.1	3.6
20°-30°	325.0	5.6
30°-40°	521.6	9.0
40°-50°	833.1	14.4
50°-60°	1206.2	20.9
60°-70°	1431.5	24.8
70°-80°	1062.7	18.4
80°-90°	108.6	1.9
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°	5771.0	100.0
0°-180°	5771.0	100.0

Coefficient of Utilization



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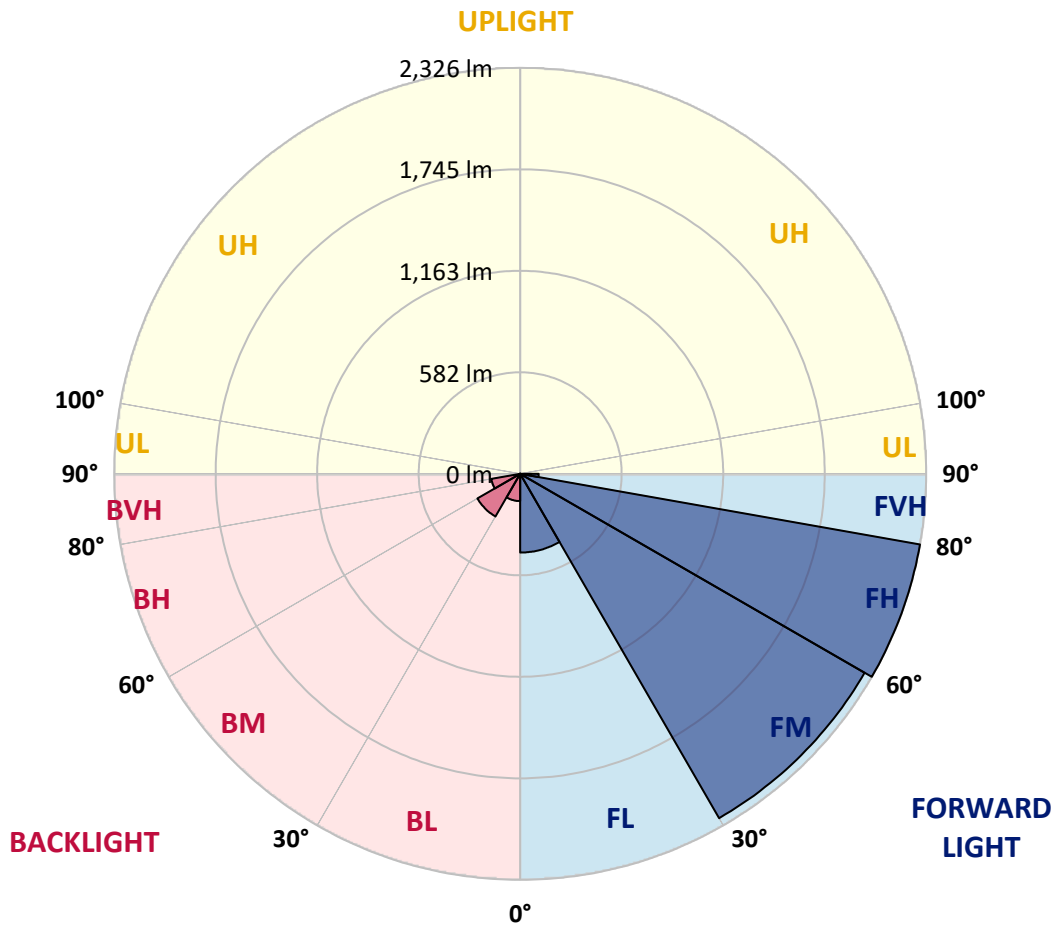
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	451.2	7.8			
FM (30°-60°)	2278.3	39.5			
FH (60°-80°)	2326.0	40.3			G2/5000
FVH (80°-90°)	105.9	1.8			G2/225
BL (0°-30°)	156.1	2.7	B1/500		
BM (30°-60°)	282.6	4.9	B1/1000		
BH (60°-80°)	168.1	2.9	B1/500		G1/500
BVH (80°-90°)	2.7	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-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4
2.5°	946.8	941.6	942.3	933.3	926.9	920.1	906.9	905.0	895.6	879.0
5°	1029.3	1026.0	1022.9	1012.8	999.6	983.0	960.8	952.9	935.5	906.9
7.5°	1089.6	1085.5	1087.0	1076.8	1066.3	1047.8	1017.3	1002.6	979.6	935.9
10°	1101.3	1099.1	1108.8	1112.6	1112.6	1100.9	1071.2	1056.5	1022.9	967.2
12.5°	1035.8	1036.1	1060.6	1090.0	1128.4	1139.4	1119.4	1103.6	1070.4	1000.3
15°	959.3	959.6	983.4	1021.1	1084.0	1146.9	1162.7	1152.6	1118.3	1036.1
17.5°	913.3	911.4	927.2	958.1	1024.1	1112.6	1189.1	1195.9	1168.0	1075.7
20°	906.9	903.5	911.8	927.2	974.3	1069.7	1192.1	1224.1	1219.2	1120.5
22.5°	946.1	940.8	936.3	937.0	957.0	1033.9	1184.6	1240.0	1272.0	1174.4
25°	1023.7	1015.4	1000.7	981.9	977.7	1026.3	1179.3	1257.3	1321.0	1243.4
27.5°	1118.6	1107.0	1078.7	1050.4	1026.3	1047.4	1190.2	1284.8	1376.4	1323.6
30°	1223.0	1208.7	1180.4	1126.9	1088.5	1094.5	1216.2	1321.0	1447.2	1414.4
32.5°	1376.4	1343.2	1293.8	1212.1	1161.2	1145.4	1255.4	1366.9	1535.0	1535.4
35°	1507.9	1489.4	1439.7	1337.9	1233.6	1212.8	1307.0	1431.7	1656.7	1695.5
37.5°	1594.1	1568.9	1525.2	1448.7	1345.8	1282.2	1376.0	1511.2	1785.5	1877.8
40°	1690.6	1665.7	1607.7	1535.7	1476.2	1401.2	1463.0	1602.8	1926.8	2065.1
42.5°	1807.0	1774.6	1706.0	1628.4	1566.3	1558.0	1576.8	1717.0	2071.9	2268.6
45°	1943.8	1913.3	1834.5	1736.6	1681.9	1667.2	1720.0	1850.0	2233.5	2491.6
47.5°	2071.9	2036.5	1951.7	1862.4	1801.7	1755.4	1872.2	2007.1	2416.6	2724.8
50°	2180.8	2144.6	2067.0	1971.7	1930.6	1869.9	2021.8	2182.3	2598.2	2961.8
52.5°	2255.4	2223.3	2132.2	2067.4	2039.5	2009.0	2197.0	2368.0	2779.1	3178.8
55°	2238.4	2209.8	2129.5	2125.0	2123.1	2155.1	2406.5	2578.6	2963.3	3384.2
57.5°	2184.5	2152.1	2051.9	2120.9	2187.6	2285.5	2633.3	2827.7	3165.3	3577.8
60°	2025.9	2014.6	1953.6	2112.9	2214.7	2413.2	2892.5	3077.9	3383.8	3748.1
62.5°	1690.2	1700.0	1699.6	2129.5	2263.7	2558.7	3128.0	3331.1	3597.4	3912.0
65°	1265.6	1299.5	1342.8	1980.3	2329.2	2818.3	3409.4	3605.7	3814.5	4102.7
67.5°	850.4	877.5	906.9	1624.7	2134.0	3091.1	3877.0	3982.1	4074.4	4314.1
70°	486.8	495.5	536.5	1014.7	1645.0	3015.7	4638.5	4676.5	4462.1	4574.4
72.5°	272.8	269.8	324.0	481.5	919.3	2582.4	4905.2	5276.3	4809.1	4570.3
75°	182.4	182.7	223.1	303.7	358.3	1807.8	4227.0	4892.4	4601.2	4052.6
77.5°	124.3	128.5	163.9	234.7	165.8	882.0	2796.4	3427.1	3725.2	3129.5
80°	53.9	54.3	108.1	168.4	111.9	280.7	1449.8	1836.0	2336.4	1757.3
82.5°	27.9	31.6	68.9	108.9	70.5	98.3	685.0	802.2	980.4	515.8
85°	9.8	11.7	42.6	53.5	35.4	35.0	238.5	243.0	207.6	77.6
87.5°	0.0	1.9	16.6	13.2	4.5	4.1	28.3	23.7	18.8	10.9
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°
853.4	0°	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4	853.4
862.1	2.5°	854.1	844.0	827.4	807.1	783.3	770.5	752.0	740.7	730.6	730.9
873.7	5°	855.3	838.3	796.1	751.3	701.6	665.0	624.3	595.7	573.8	568.6
885.8	7.5°	858.7	830.0	761.1	686.5	603.6	542.2	486.0	450.6	430.7	425.4
898.2	10°	863.2	821.0	721.5	607.4	504.5	430.7	383.9	361.3	352.3	345.5
914.1	12.5°	867.0	811.6	671.8	525.6	416.3	358.7	323.3	304.4	296.5	291.6
932.5	15°	873.4	799.1	617.9	449.5	356.8	309.7	276.2	262.2	260.0	260.7
952.9	17.5°	879.8	787.1	557.6	390.0	313.1	266.8	246.4	244.1	247.2	250.2
976.2	20°	886.9	769.7	496.6	345.1	272.8	237.0	231.7	233.2	234.7	240.0
1008.2	22.5°	897.5	747.9	443.1	307.1	239.3	222.7	220.0	221.2	222.3	227.6
1050.4	25°	912.5	724.5	399.8	272.0	218.2	211.0	208.4	208.4	209.9	214.8
1099.4	27.5°	928.4	691.4	364.7	239.6	205.7	198.2	193.7	193.7	195.5	201.2
1160.8	30°	946.1	661.2	337.2	215.5	195.2	185.4	179.3	177.8	180.1	187.3
1249.8	32.5°	978.1	641.6	317.6	204.2	185.7	173.7	165.4	161.3	163.5	171.8
1374.1	35°	1026.7	637.1	304.1	198.6	176.7	163.1	151.5	145.1	146.9	155.6
1527.4	37.5°	1083.6	646.5	290.9	191.0	168.0	153.0	137.5	129.2	132.2	140.2
1702.6	40°	1165.4	685.7	280.7	185.4	159.4	140.9	123.6	115.3	120.2	127.0
1885.0	42.5°	1264.1	755.4	278.1	180.1	148.8	128.1	110.8	104.7	108.5	114.9
2069.2	45°	1386.5	844.4	290.1	173.3	137.1	115.7	100.6	97.2	98.3	104.7
2243.3	47.5°	1518.0	935.5	323.3	167.3	127.0	105.5	92.7	89.7	88.9	94.9
2402.3	50°	1651.0	1016.5	362.5	162.8	119.8	97.2	86.7	82.9	81.0	84.8
2559.4	52.5°	1782.5	1081.0	388.1	155.2	112.7	88.9	81.4	75.7	72.3	74.2
2715.8	55°	1915.9	1137.5	389.6	143.9	105.9	83.6	76.1	69.7	65.6	65.6
2866.5	57.5°	2040.6	1187.2	367.4	128.9	96.5	78.7	68.9	63.7	59.2	57.6
3000.3	60°	2151.0	1224.1	330.4	111.9	88.2	72.3	61.8	57.6	52.0	49.0
3119.3	62.5°	2249.3	1242.2	279.9	94.6	78.0	64.8	55.0	50.5	43.0	39.2
3240.3	65°	2332.6	1223.8	227.2	78.4	69.3	56.5	47.1	42.6	34.3	29.8
3376.3	67.5°	2415.1	1139.4	171.8	65.9	60.3	47.5	38.8	34.7	28.6	24.9
3475.4	70°	2425.7	961.9	120.2	55.4	50.1	36.5	31.3	28.6	23.4	20.0
3254.2	72.5°	2159.3	692.1	73.1	45.2	39.2	26.0	24.9	22.6	17.3	15.1
2658.9	75°	1726.0	424.2	43.0	33.9	26.0	18.5	18.5	16.2	11.7	9.8
1835.6	77.5°	1192.9	221.9	25.2	21.9	15.4	10.9	12.1	9.8	5.7	4.5
727.2	80°	477.7	84.4	13.6	10.2	7.2	4.9	4.1	2.3	1.1	0.8
149.2	82.5°	95.3	22.2	4.5	2.6	2.6	1.1	0.0	0.0	0.0	0.0
41.1	85°	24.5	4.9	1.1	0.8	0.8	0.0	0.0	0.0	0.0	0.0
13.6	87.5°	7.5	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>
853.4
739.2
576.5
430.7
349.6
294.3
261.9
251.3
241.5
229.1
216.6
203.5
189.1
174.1
158.2
142.4
128.1
116.0
107.8
98.7
86.3
75.7
66.3
58.0
48.2
38.8
29.8
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19.6
14.7
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