

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: P945719

Luminaire Tested: **GALN-SB1C-830-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945719
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-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 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: 5421 lumens
Efficiency: N/A
Efficacy: 99.7 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

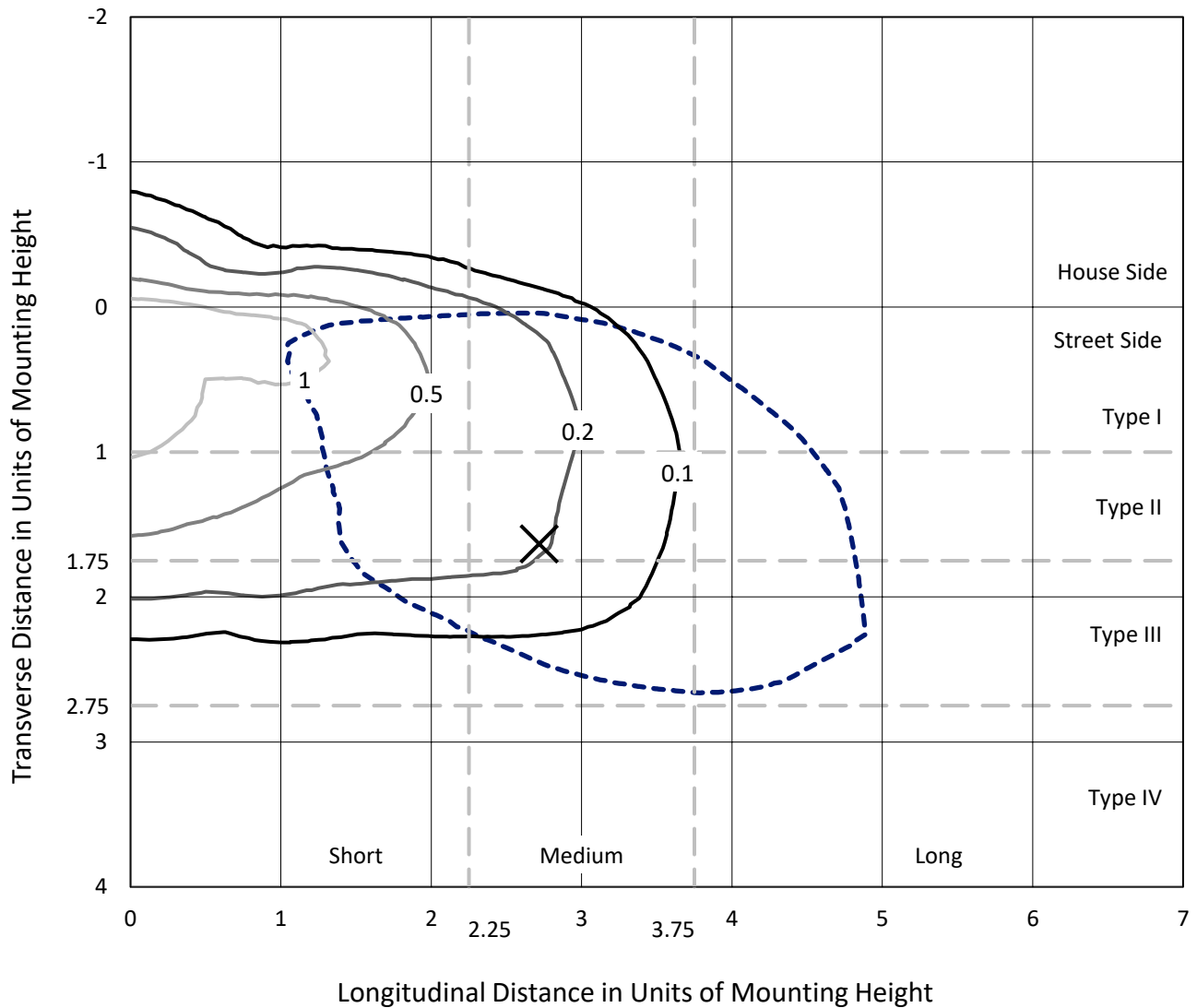
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

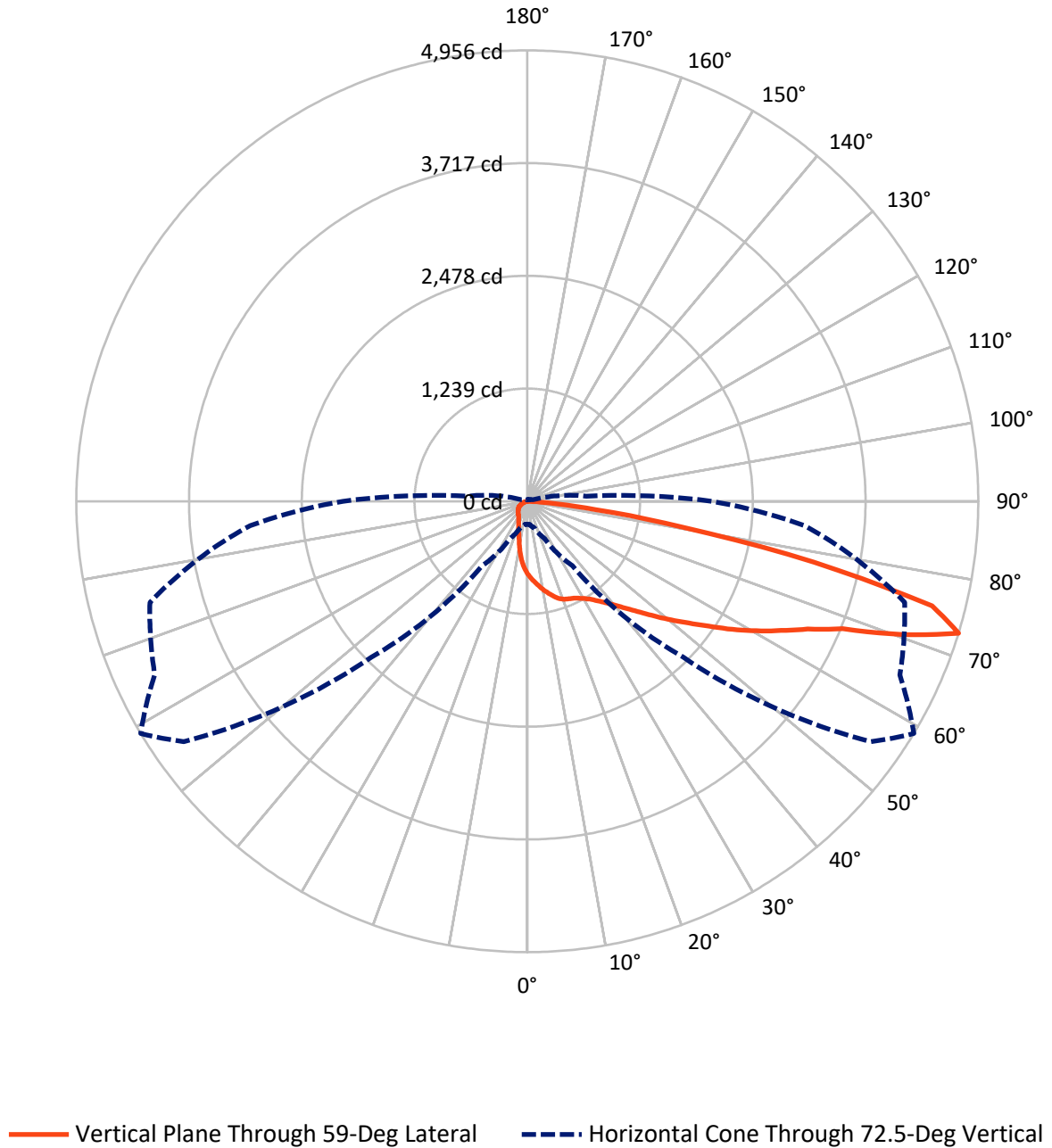
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	572.6	0.0	572.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4848.4	0.0	4848.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	5421.0	0.0	5421.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	1.3
10°-20°	192.6	3.6
20°-30°	305.3	5.6
30°-40°	490.0	9.0
40°-50°	782.6	14.4
50°-60°	1133.1	20.9
60°-70°	1344.7	24.8
70°-80°	998.2	18.4
80°-90°	102.1	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°	5421.0	100.0
0°-180°	5421.0	100.0

Coefficient of Utilization



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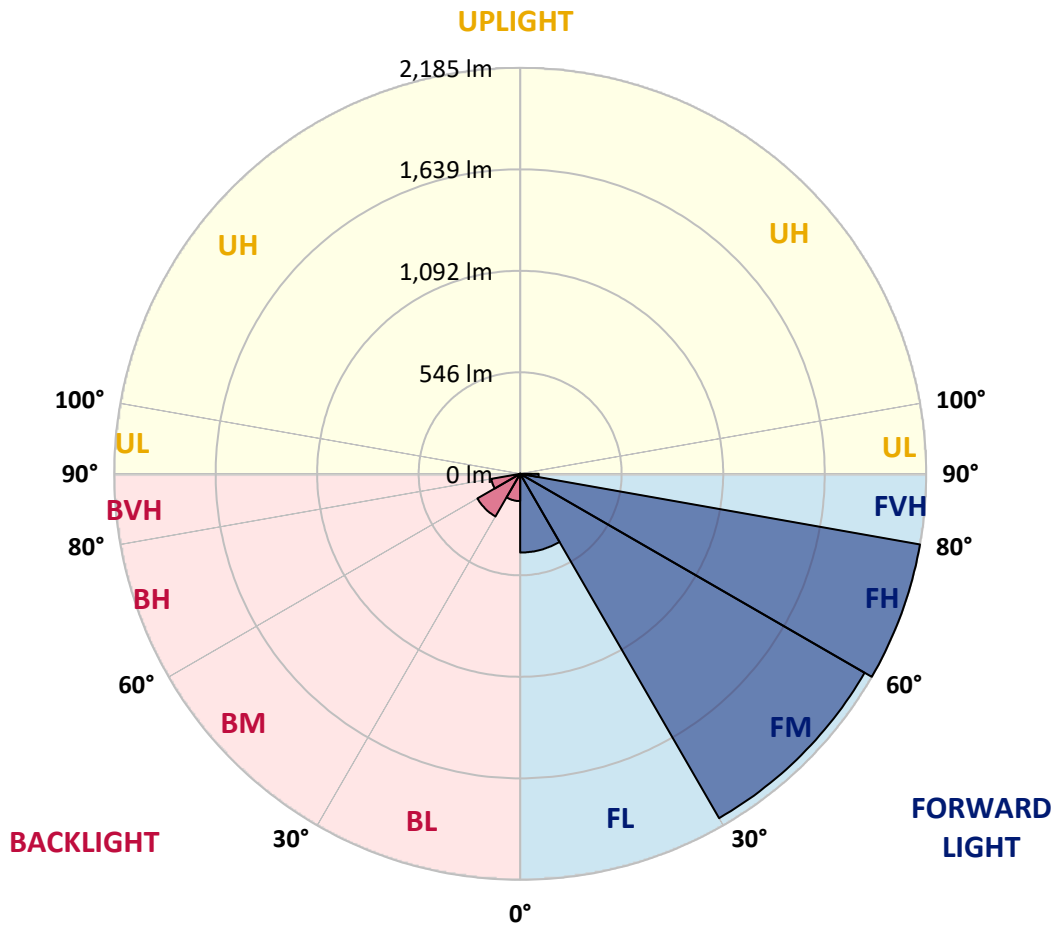
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	423.8	7.8			
FM (30°-60°)	2140.1	39.5			
FH (60°-80°)	2185.0	40.3			G2/5000
FVH (80°-90°)	99.5	1.8			G1/100
BL (0°-30°)	146.7	2.7	B1/500		
BM (30°-60°)	265.5	4.9	B1/1000		
BH (60°-80°)	157.9	2.9	B1/500		G1/500
BVH (80°-90°)	2.5	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°	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6
2.5°	889.4	884.5	885.2	876.7	870.7	864.3	851.9	850.1	841.3	825.7
5°	966.9	963.7	960.9	951.3	939.0	923.4	902.5	895.1	878.8	851.9
7.5°	1023.5	1019.7	1021.1	1011.5	1001.6	984.3	955.6	941.8	920.2	879.1
10°	1034.5	1032.4	1041.6	1045.1	1045.1	1034.2	1006.2	992.4	960.9	908.5
12.5°	972.9	973.3	996.3	1023.9	1060.0	1070.3	1051.5	1036.6	1005.5	939.7
15°	901.1	901.4	923.7	959.1	1018.2	1077.3	1092.2	1082.7	1050.4	973.3
17.5°	857.9	856.1	871.0	900.0	962.0	1045.1	1117.0	1123.4	1097.2	1010.5
20°	851.9	848.7	856.5	871.0	915.2	1004.8	1119.8	1149.9	1145.3	1052.6
22.5°	888.7	883.7	879.5	880.2	899.0	971.2	1112.7	1164.8	1194.8	1103.2
25°	961.6	953.8	940.0	922.3	918.4	964.1	1107.8	1181.0	1240.9	1167.9
27.5°	1050.8	1039.8	1013.3	986.7	964.1	983.9	1118.0	1206.9	1292.9	1243.3
30°	1148.8	1135.4	1108.8	1058.6	1022.5	1028.1	1142.5	1240.9	1359.4	1328.6
32.5°	1292.9	1261.7	1215.4	1138.6	1090.8	1075.9	1179.3	1284.0	1441.9	1442.2
35°	1416.4	1399.1	1352.3	1256.8	1158.7	1139.3	1227.8	1344.9	1556.2	1592.7
37.5°	1497.5	1473.7	1432.7	1360.8	1264.2	1204.4	1292.5	1419.6	1677.2	1764.0
40°	1588.1	1564.7	1510.2	1442.6	1386.7	1316.2	1374.3	1505.6	1810.0	1939.9
42.5°	1697.4	1667.0	1602.6	1529.7	1471.3	1463.5	1481.2	1612.8	1946.2	2131.0
45°	1825.9	1797.2	1723.3	1631.2	1579.9	1566.1	1615.7	1737.8	2098.1	2340.5
47.5°	1946.2	1913.0	1833.3	1749.4	1692.5	1648.9	1758.6	1885.4	2270.1	2559.6
50°	2048.5	2014.5	1941.6	1852.1	1813.5	1756.5	1899.2	2049.9	2440.7	2782.2
52.5°	2118.6	2088.5	2002.9	1942.0	1915.8	1887.1	2063.7	2224.4	2610.5	2986.1
55°	2102.7	2075.8	2000.4	1996.1	1994.4	2024.4	2260.5	2422.3	2783.6	3178.9
57.5°	2052.0	2021.6	1927.5	1992.2	2054.9	2146.9	2473.6	2656.2	2973.3	3360.9
60°	1903.0	1892.4	1835.1	1984.8	2080.4	2266.9	2717.1	2891.2	3178.6	3520.8
62.5°	1587.7	1596.9	1596.5	2000.4	2126.4	2403.5	2938.3	3129.0	3379.3	3674.8
65°	1188.8	1220.7	1261.4	1860.2	2188.0	2647.3	3202.7	3387.0	3583.1	3853.9
67.5°	798.8	824.3	851.9	1526.1	2004.6	2903.6	3641.9	3740.6	3827.3	4052.4
70°	457.3	465.4	504.0	953.1	1545.2	2832.8	4357.2	4392.9	4191.5	4297.0
72.5°	256.2	253.4	304.4	452.3	863.6	2425.8	4607.7	4956.3	4517.5	4293.1
75°	171.3	171.7	209.5	285.3	336.6	1698.1	3970.7	4595.7	4322.1	3806.8
77.5°	116.8	120.7	154.0	220.5	155.7	828.5	2626.8	3219.3	3499.2	2939.7
80°	50.6	51.0	101.6	158.2	105.1	263.7	1361.9	1724.7	2194.7	1650.7
82.5°	26.2	29.7	64.8	102.3	66.2	92.4	643.4	753.5	920.9	484.5
85°	9.2	11.0	40.0	50.3	33.3	32.9	224.0	228.3	195.0	72.9
87.5°	0.0	1.8	15.6	12.4	4.2	3.9	26.5	22.3	17.7	10.3
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°
801.6	0°	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6	801.6
809.8	2.5°	802.3	792.8	777.2	758.1	735.8	723.8	706.4	695.8	686.3	686.6
820.7	5°	803.4	787.5	747.8	705.7	659.0	624.7	586.5	559.6	539.0	534.1
832.1	7.5°	806.6	779.7	714.9	644.8	567.0	509.3	456.6	423.3	404.5	399.6
843.8	10°	810.8	771.2	677.8	570.5	473.9	404.5	360.6	339.4	330.9	324.5
858.6	12.5°	814.4	762.4	631.0	493.7	391.1	336.9	303.7	286.0	278.5	273.9
876.0	15°	820.4	750.7	580.4	422.2	335.2	290.9	259.4	246.3	244.2	244.9
895.1	17.5°	826.4	739.3	523.8	366.3	294.1	250.6	231.5	229.3	232.2	235.0
917.0	20°	833.1	723.1	466.5	324.2	256.2	222.6	217.7	219.1	220.5	225.4
947.1	22.5°	843.0	702.5	416.2	288.4	224.7	209.2	206.7	207.8	208.8	213.8
986.7	25°	857.2	680.6	375.5	255.5	204.9	198.2	195.7	195.7	197.1	201.7
1032.7	27.5°	872.1	649.4	342.6	225.1	193.2	186.2	181.9	181.9	183.7	189.0
1090.4	30°	888.7	621.1	316.8	202.4	183.3	174.1	168.5	167.1	169.2	175.9
1174.0	32.5°	918.8	602.7	298.4	191.8	174.5	163.2	155.4	151.5	153.6	161.4
1290.8	35°	964.4	598.5	285.6	186.5	166.0	153.2	142.3	136.3	138.0	146.2
1434.8	37.5°	1017.9	607.3	273.2	179.4	157.8	143.7	129.2	121.4	124.2	131.7
1599.4	40°	1094.7	644.1	263.7	174.1	149.7	132.4	116.1	108.3	112.9	119.3
1770.7	42.5°	1187.4	709.6	261.2	169.2	139.8	120.3	104.1	98.4	101.9	107.9
1943.7	45°	1302.4	793.1	272.5	162.8	128.8	108.7	94.5	91.3	92.4	98.4
2107.3	47.5°	1426.0	878.8	303.7	157.1	119.3	99.1	87.1	84.2	83.5	89.2
2256.6	50°	1550.9	954.9	340.5	152.9	112.5	91.3	81.4	77.9	76.1	79.6
2404.2	52.5°	1674.4	1015.4	364.5	145.8	105.8	83.5	76.4	71.1	68.0	69.7
2551.1	55°	1799.7	1068.5	366.0	135.2	99.5	78.6	71.5	65.5	61.6	61.6
2692.7	57.5°	1916.8	1115.2	345.1	121.0	90.6	74.0	64.8	59.8	55.6	54.2
2818.3	60°	2020.5	1149.9	310.4	105.1	82.8	68.0	58.0	54.2	48.8	46.0
2930.1	62.5°	2112.9	1166.9	263.0	88.8	73.3	60.9	51.7	47.4	40.3	36.8
3043.7	65°	2191.1	1149.5	213.4	73.6	65.1	53.1	44.2	40.0	32.2	28.0
3171.5	67.5°	2268.6	1070.3	161.4	61.9	56.6	44.6	36.5	32.6	26.9	23.4
3264.6	70°	2278.6	903.6	112.9	52.0	47.1	34.3	29.4	26.9	21.9	18.8
3056.8	72.5°	2028.3	650.2	68.7	42.5	36.8	24.4	23.4	21.2	16.3	14.2
2497.6	75°	1621.3	398.5	40.3	31.9	24.4	17.3	17.3	15.2	11.0	9.2
1724.3	77.5°	1120.5	208.5	23.7	20.5	14.5	10.3	11.3	9.2	5.3	4.2
683.1	80°	448.8	79.3	12.7	9.6	6.7	4.6	3.9	2.1	1.1	0.7
140.2	82.5°	89.5	20.9	4.2	2.5	2.5	1.1	0.0	0.0	0.0	0.0
38.6	85°	23.0	4.6	1.1	0.7	0.7	0.0	0.0	0.0	0.0	0.0
12.7	87.5°	7.1	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>
801.6
694.4
541.5
404.5
328.4
276.4
246.0
236.1
226.9
215.2
203.5
191.1
177.7
163.5
148.6
133.8
120.3
109.0
101.2
92.7
81.0
71.1
62.3
54.5
45.3
36.5
28.0
23.4
18.4
13.8
9.2
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