

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: P945612

Luminaire Tested: **GALN-SB1C-735-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6072 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

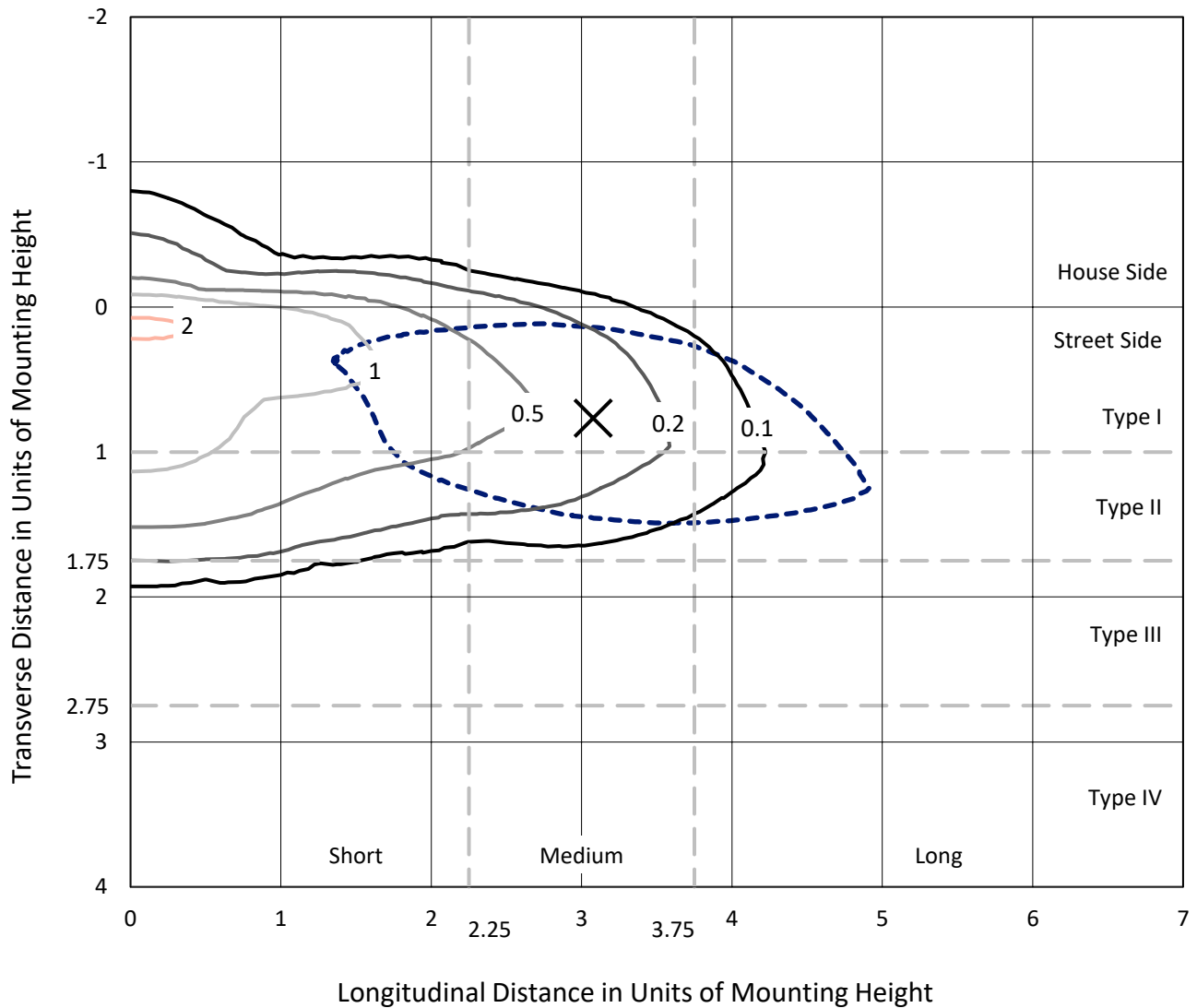
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

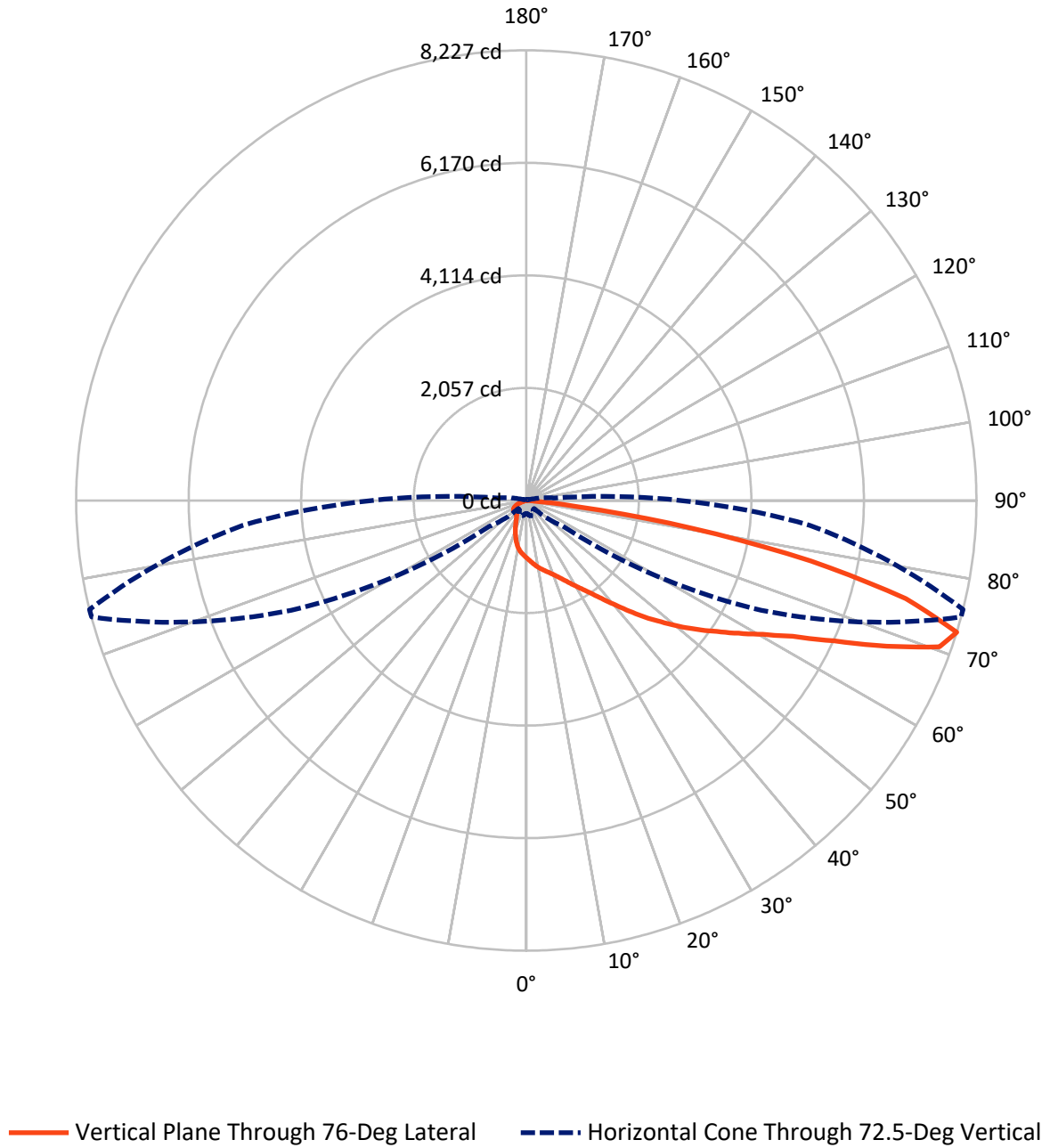
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	621.5	0.0	621.5
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	5450.5	0.0	5450.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	6072.0	0.0	6072.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	1.6
10°-20°	255.9	4.2
20°-30°	405.0	6.7
30°-40°	626.6	10.3
40°-50°	951.7	15.7
50°-60°	1312.0	21.6
60°-70°	1386.0	22.8
70°-80°	950.9	15.7
80°-90°	88.5	1.5
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°	6072.0	100.0
0°-180°	6072.0	100.0

Coefficient of Utilization



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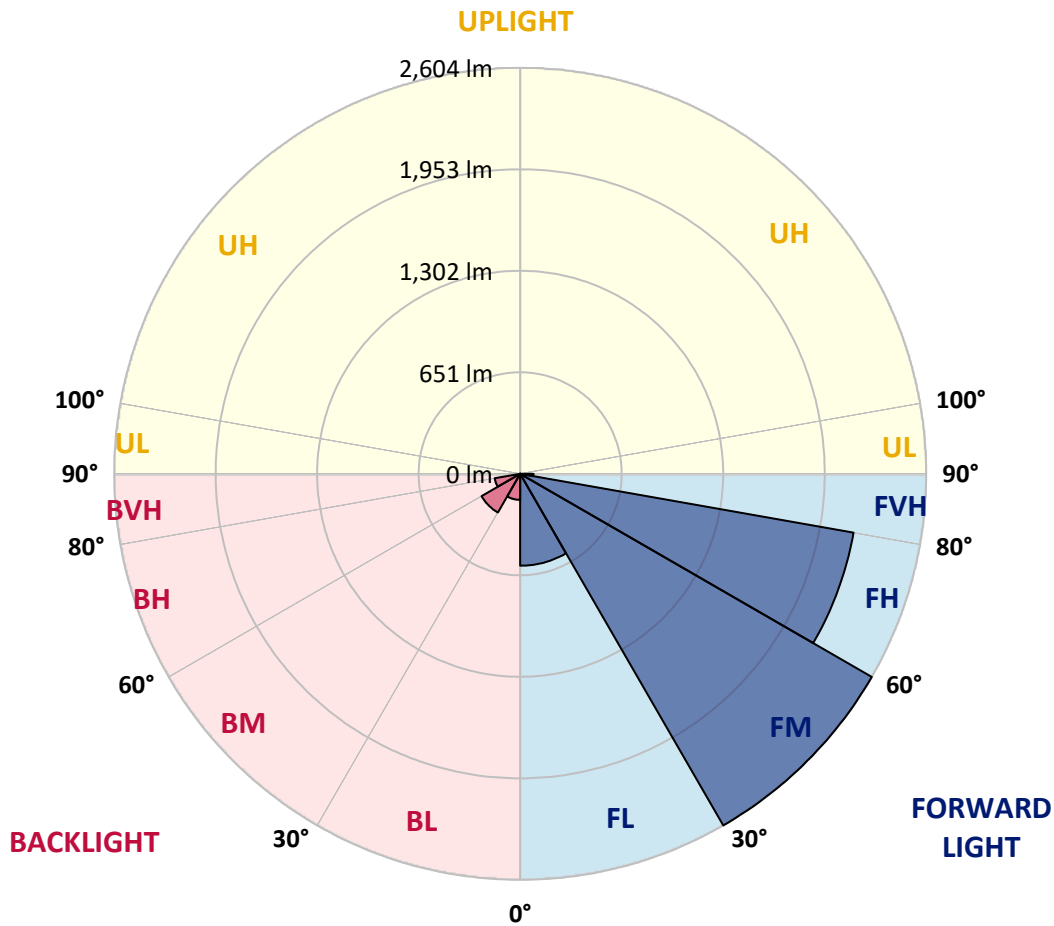
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	589.3	9.7			
FM (30°-60°)	2604.1	42.9			
FH (60°-80°)	2171.0	35.8			G2/5000
FVH (80°-90°)	86.1	1.4			G1/100
BL (0°-30°)	167.0	2.8	B1/500		
BM (30°-60°)	286.1	4.7	B1/1000		
BH (60°-80°)	165.9	2.7	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3
2.5°	1219.8	1203.7	1206.8	1190.7	1183.2	1165.1	1146.2	1121.4	1093.8	1093.8
5°	1348.2	1338.0	1338.0	1319.1	1304.5	1276.2	1242.3	1198.6	1146.6	1141.5
7.5°	1427.0	1420.7	1424.7	1413.6	1401.8	1372.3	1332.1	1275.0	1201.3	1195.0
10°	1442.4	1442.0	1453.0	1456.2	1464.0	1449.1	1413.2	1347.5	1255.3	1246.2
12.5°	1382.9	1375.4	1402.6	1434.5	1479.4	1499.5	1481.0	1413.6	1304.5	1291.9
15°	1285.2	1286.8	1312.8	1362.0	1436.9	1508.6	1532.6	1478.2	1354.6	1339.6
17.5°	1229.3	1223.4	1245.8	1290.0	1372.7	1473.9	1556.6	1538.5	1407.7	1390.8
20°	1222.6	1222.2	1227.3	1247.4	1310.4	1424.3	1553.9	1597.2	1470.4	1450.7
22.5°	1269.1	1268.3	1264.0	1260.0	1277.4	1375.8	1542.0	1653.1	1545.2	1523.9
25°	1340.4	1339.2	1332.5	1308.5	1291.5	1349.8	1531.0	1705.1	1633.8	1610.2
27.5°	1427.4	1426.6	1414.4	1378.2	1334.5	1352.2	1525.5	1758.7	1736.2	1713.0
30°	1534.2	1532.6	1507.4	1456.2	1399.1	1389.6	1533.0	1818.9	1843.0	1825.2
32.5°	1668.1	1663.7	1630.7	1553.5	1473.5	1439.6	1547.2	1880.8	1969.4	1952.9
35°	1771.7	1765.0	1745.7	1677.5	1559.8	1501.1	1580.2	1954.0	2121.4	2106.9
37.5°	1860.7	1854.0	1838.2	1782.3	1683.4	1579.5	1633.4	2051.7	2301.0	2294.0
40°	1956.8	1945.8	1938.3	1878.4	1789.0	1692.5	1709.4	2165.9	2507.8	2508.6
42.5°	2030.8	2026.5	2027.3	1981.2	1891.0	1826.4	1810.3	2294.7	2755.6	2763.1
45°	2094.3	2090.7	2105.3	2073.0	1993.8	1914.3	1928.4	2440.5	3026.6	3041.9
47.5°	2143.1	2147.0	2167.9	2147.0	2100.6	1976.1	2033.2	2597.6	3311.3	3313.3
50°	2191.9	2193.5	2228.2	2217.9	2199.0	2054.5	2129.7	2773.3	3611.5	3615.0
52.5°	2207.3	2204.9	2260.1	2285.3	2286.1	2151.4	2254.6	2964.7	3905.7	3917.1
55°	2128.5	2135.2	2224.2	2326.6	2367.2	2285.3	2423.1	3207.0	4219.2	4224.0
57.5°	1743.3	1780.3	1977.3	2214.8	2419.6	2477.1	2665.4	3490.2	4581.2	4576.9
60°	1058.0	1102.1	1337.6	1857.5	2248.7	2669.7	3022.2	3928.9	4976.7	4964.5
62.5°	591.6	605.0	680.2	1111.9	1710.2	2547.2	3370.8	4492.6	5507.6	5466.3
65°	436.0	440.4	458.1	544.7	840.5	1959.2	3294.4	5166.5	6253.6	6180.0
67.5°	378.9	383.2	400.6	412.4	375.4	1029.2	2714.2	5540.3	7200.9	7104.4
70°	319.0	321.4	349.4	357.2	268.6	391.5	1743.7	5424.9	8077.7	8008.7
72.5°	237.9	247.4	287.9	306.8	215.5	208.0	820.8	4743.1	8226.2	8227.0
75°	161.5	170.2	216.6	252.5	166.2	145.7	331.3	3541.8	7163.1	7163.1
77.5°	110.3	117.4	150.9	198.1	126.0	100.0	171.7	2247.9	5138.9	5319.7
80°	48.8	53.2	97.3	143.8	95.7	64.6	97.3	1230.9	3107.7	3069.5
82.5°	24.0	27.6	62.2	89.8	61.8	39.8	51.2	585.3	1007.1	957.1
85°	4.7	6.3	33.5	38.2	28.8	17.7	19.3	180.0	121.3	138.6
87.5°	0.0	0.0	10.2	7.1	3.2	3.9	3.9	16.1	9.5	11.0
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°
1049.3	0°	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3
1067.0	2.5°	1052.8	1038.3	1006.4	974.9	942.6	913.0	892.5	872.0	859.4	853.9
1090.7	5°	1061.1	1031.6	964.6	894.5	825.2	757.4	706.6	659.0	644.0	619.2
1118.6	7.5°	1074.1	1026.1	920.5	802.3	689.7	590.4	518.7	461.6	438.8	416.7
1142.6	10°	1082.8	1015.8	862.2	704.3	551.8	440.4	371.8	330.5	315.5	302.1
1165.1	12.5°	1086.3	996.9	795.2	594.4	429.3	335.6	294.6	275.3	270.2	265.5
1186.4	15°	1089.5	978.4	720.4	488.4	339.1	280.8	264.7	258.4	254.8	251.7
1208.0	17.5°	1092.2	954.8	634.9	397.0	286.4	258.8	250.9	244.2	241.4	237.9
1239.1	20°	1101.7	931.9	558.5	327.7	257.6	243.0	234.4	227.3	224.9	222.5
1283.3	22.5°	1119.4	913.4	484.5	280.8	240.3	226.9	215.8	208.0	206.4	204.8
1336.8	25°	1140.7	890.6	414.8	250.5	223.3	208.4	196.2	189.5	187.9	188.3
1398.7	27.5°	1167.9	865.4	354.9	231.2	208.4	191.0	177.2	172.1	172.9	174.5
1470.0	30°	1197.8	842.1	308.0	217.8	195.0	175.7	161.9	158.3	161.1	163.5
1565.3	32.5°	1242.3	821.6	275.3	207.2	183.2	163.1	152.0	147.7	150.9	154.0
1687.0	35°	1303.0	811.4	256.8	198.1	172.9	153.2	142.2	139.0	142.2	143.0
1835.5	37.5°	1377.4	810.6	248.9	190.6	163.5	144.9	132.7	131.6	133.9	134.3
2013.9	40°	1473.5	815.7	243.0	185.1	153.6	135.5	124.1	122.9	123.7	126.4
2228.6	42.5°	1595.2	837.0	234.8	178.0	143.0	126.0	117.0	114.2	113.8	117.0
2468.8	45°	1748.0	883.9	223.7	166.6	133.5	118.2	109.1	106.0	104.8	105.6
2717.0	47.5°	1914.6	941.4	212.7	156.0	126.8	111.9	102.8	98.9	96.9	96.9
2949.0	50°	2076.1	1006.4	205.2	144.9	122.1	106.0	96.1	92.2	89.0	88.2
3187.7	52.5°	2236.1	1070.2	199.3	133.9	116.6	98.5	89.8	85.5	81.9	80.4
3424.0	55°	2381.8	1130.8	189.1	123.3	109.5	90.6	83.5	79.2	74.8	72.1
3663.5	57.5°	2521.6	1181.2	170.2	112.3	98.5	83.1	76.8	72.1	67.0	63.4
3905.7	60°	2648.8	1207.2	146.5	100.4	87.4	75.2	69.3	65.0	58.3	52.4
4144.0	62.5°	2745.7	1197.0	120.9	87.0	76.0	68.1	60.7	56.3	48.4	41.4
4429.6	65°	2845.0	1141.1	96.5	72.9	66.6	58.7	50.8	46.5	37.4	29.9
4816.0	67.5°	2973.8	1021.7	76.0	60.7	57.5	46.5	39.8	37.0	30.7	23.6
5230.7	70°	3056.5	793.7	59.1	49.2	47.3	33.9	30.7	30.3	24.4	18.1
5202.8	72.5°	2829.6	520.3	45.3	37.4	33.9	22.1	23.6	23.6	17.7	12.2
4560.7	75°	2362.1	304.5	32.7	26.8	19.3	14.2	16.1	16.1	11.0	5.9
3250.7	77.5°	1687.0	162.3	21.7	16.5	9.8	6.3	8.7	8.3	3.5	0.4
1274.2	80°	645.2	55.9	10.2	6.7	2.8	1.2	0.8	0.4	0.4	0.0
198.9	82.5°	98.5	14.6	2.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
42.1	85°	17.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11.0	87.5°	3.9	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>
1049.3
854.7
620.8
416.3
301.7
265.5
251.7
237.9
222.9
203.6
187.5
173.7
162.7
153.2
142.6
133.5
126.0
116.6
106.7
96.9
87.8
79.6
70.9
61.8
50.8
38.6
28.0
22.1
16.1
10.6
4.7
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