

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: P945992

Luminaire Tested: **GALN-SB1D-740-U-SL3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945992  
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-SB1D-740-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

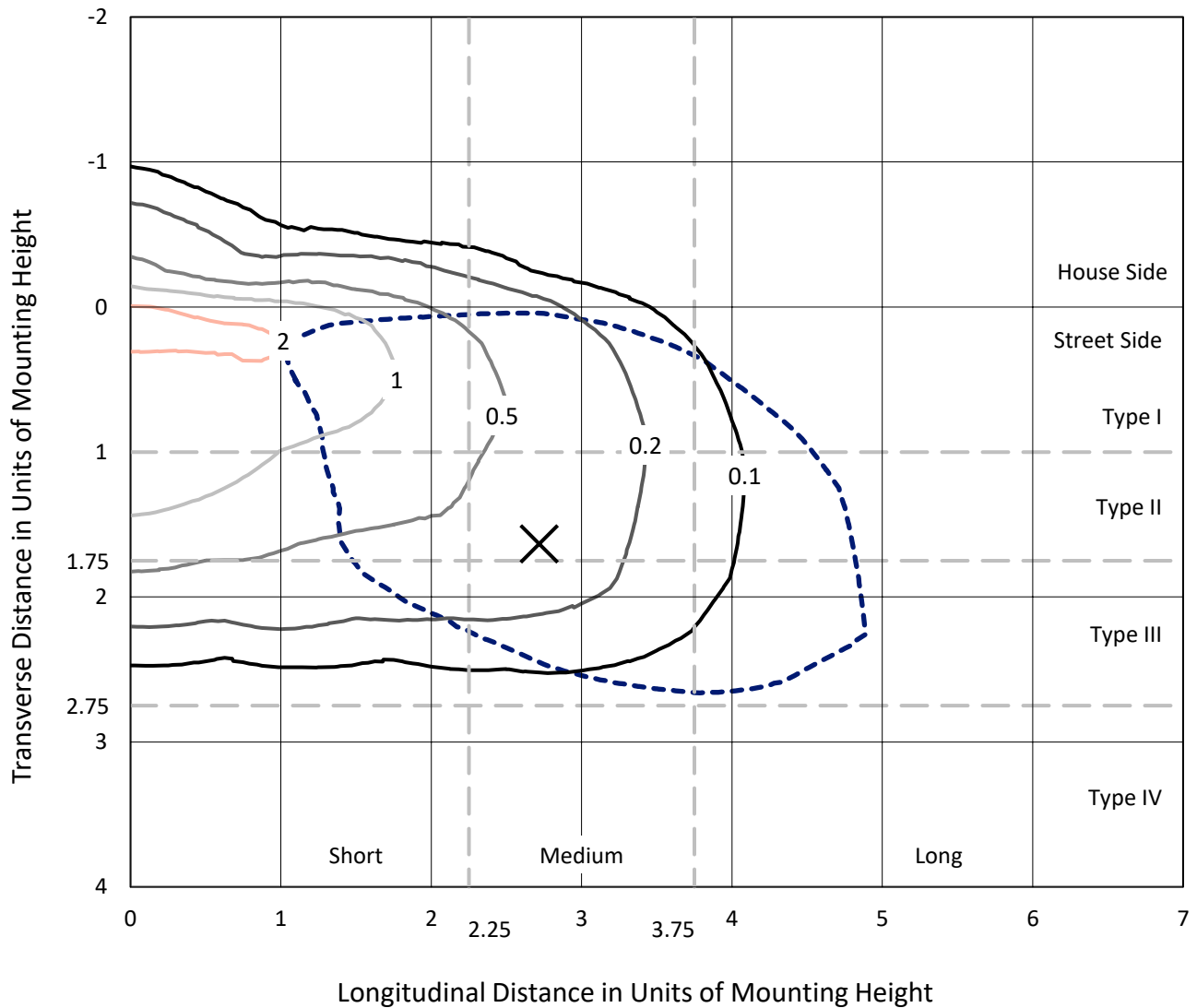
Lumens per Lamp: N/A  
Luminaire Lumens: 8673 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): 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

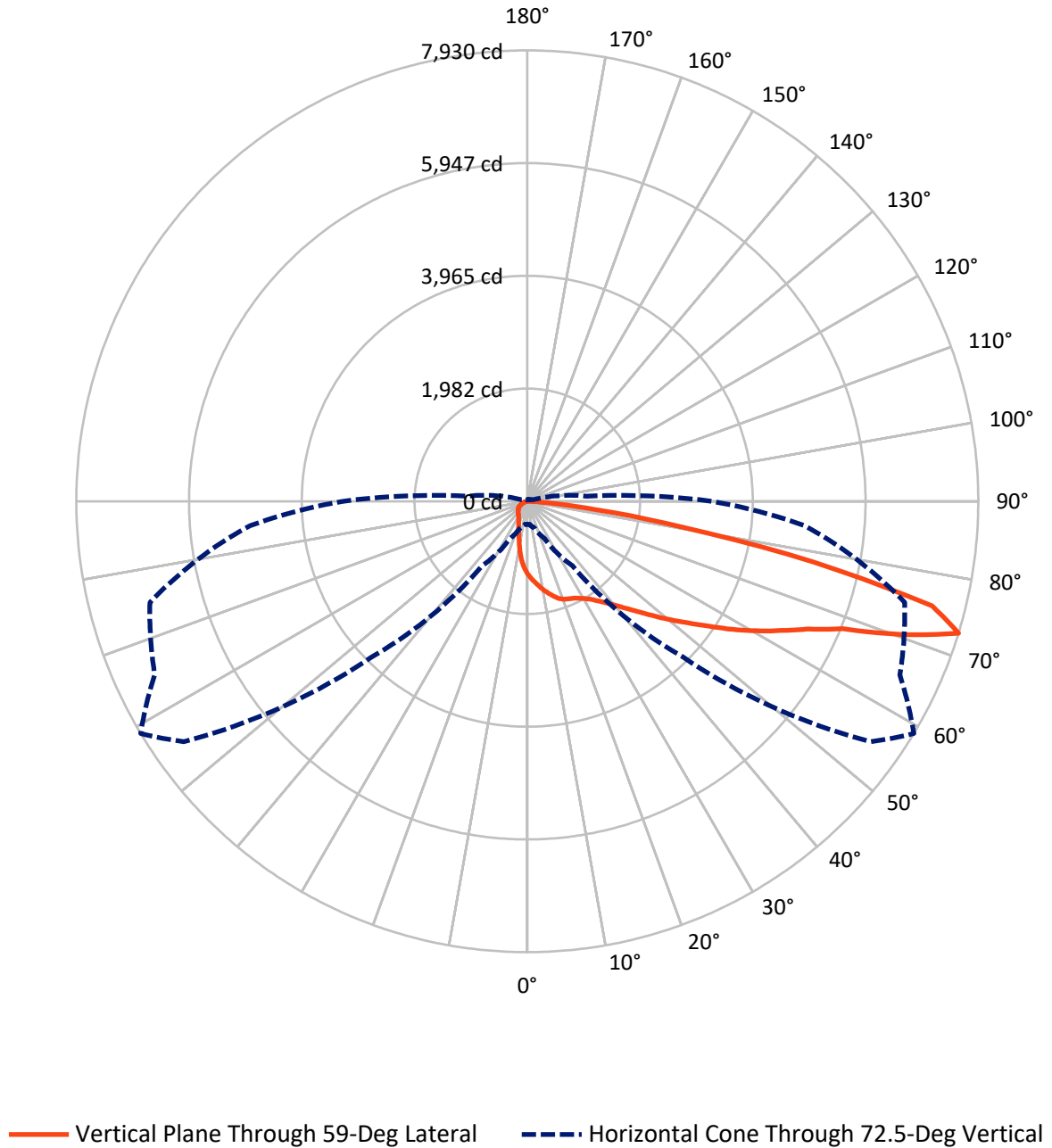
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	916.0	0.0	916.0
	% Fixture	10.6	0.0	10.6
<b>Street Side</b>	Lumens	7756.9	0.0	7756.9
	% Fixture	89.4	0.0	89.4
<b>Total</b>	Lumens	8673.0	0.0	8673.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.0	1.3
10°-20°	308.2	3.6
20°-30°	488.5	5.6
30°-40°	783.9	9.0
40°-50°	1252.0	14.4
50°-60°	1812.8	20.9
60°-70°	2151.3	24.8
70°-80°	1597.0	18.4
80°-90°	163.3	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°	8673.0	100.0
0°-180°	8673.0	100.0

**Coefficient of Utilization**



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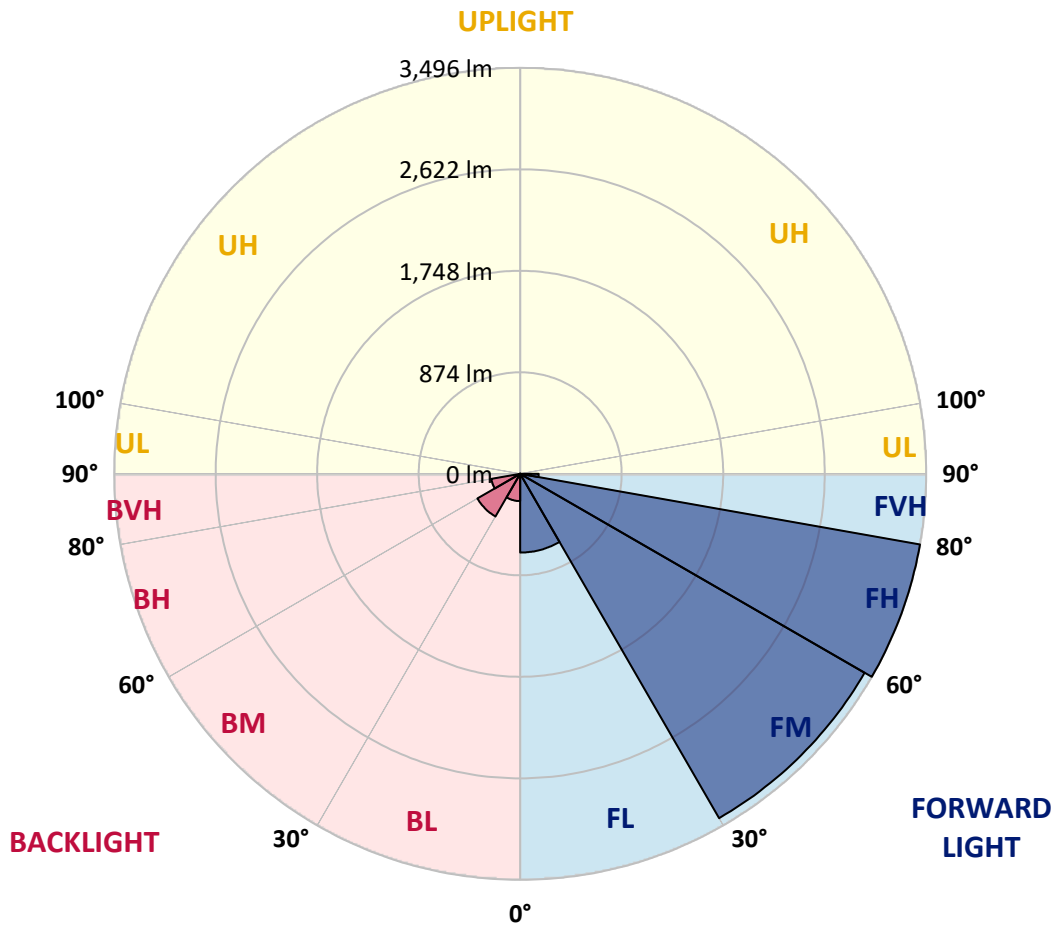
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	678.0	7.8			
FM (30°-60°)	3424.0	39.5			
FH (60°-80°)	3495.7	40.3			G2/5000
FVH (80°-90°)	159.2	1.8			G2/225
BL (0°-30°)	234.7	2.7	B1/500		
BM (30°-60°)	424.7	4.9	B1/1000		
BH (60°-80°)	252.6	2.9	B1/500		G1/500
BVH (80°-90°)	4.1	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°	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5
2.5°	1423.0	1415.0	1416.2	1402.6	1392.9	1382.8	1362.9	1360.1	1345.9	1321.0
5°	1547.0	1541.9	1537.3	1522.0	1502.2	1477.3	1443.9	1432.0	1406.0	1362.9
7.5°	1637.6	1631.3	1633.6	1618.3	1602.5	1574.7	1528.8	1506.8	1472.2	1406.5
10°	1655.1	1651.7	1666.4	1672.1	1672.1	1654.5	1609.8	1587.7	1537.3	1453.5
12.5°	1556.6	1557.2	1594.0	1638.1	1695.9	1712.3	1682.3	1658.5	1608.7	1503.4
15°	1441.6	1442.2	1477.9	1534.5	1629.1	1723.6	1747.4	1732.1	1680.6	1557.2
17.5°	1372.6	1369.7	1393.5	1439.9	1539.0	1672.1	1787.0	1797.2	1755.3	1616.6
20°	1362.9	1357.8	1370.3	1393.5	1464.3	1607.6	1791.6	1839.7	1832.3	1684.0
22.5°	1421.8	1413.9	1407.1	1408.2	1438.2	1553.8	1780.3	1863.5	1911.6	1765.0
25°	1538.5	1526.0	1503.9	1475.6	1469.4	1542.4	1772.3	1889.5	1985.2	1868.6
27.5°	1681.2	1663.6	1621.1	1578.7	1542.4	1574.1	1788.7	1930.9	2068.5	1989.2
30°	1838.0	1816.5	1774.0	1693.6	1635.9	1644.9	1827.8	1985.2	2174.9	2125.7
32.5°	2068.5	2018.6	1944.5	1821.6	1745.1	1721.4	1886.7	2054.3	2306.9	2307.4
35°	2266.1	2238.3	2163.6	2010.7	1853.9	1822.7	1964.3	2151.7	2489.8	2548.1
37.5°	2395.8	2357.8	2292.1	2177.2	2022.6	1926.9	2067.9	2271.2	2683.4	2822.1
40°	2540.7	2503.3	2416.1	2308.0	2218.5	2105.8	2198.7	2408.8	2895.7	3103.6
42.5°	2715.7	2667.0	2563.9	2447.3	2353.9	2341.4	2369.7	2580.3	3113.7	3409.3
45°	2921.2	2875.4	2757.0	2609.8	2527.7	2505.6	2584.9	2780.2	3356.7	3744.5
47.5°	3113.7	3060.5	2933.1	2798.9	2707.8	2638.1	2813.6	3016.4	3631.9	4095.0
50°	3277.4	3223.0	3106.4	2963.1	2901.4	2810.2	3038.4	3279.7	3904.8	4451.2
52.5°	3389.5	3341.4	3204.3	3107.0	3065.0	3019.2	3301.7	3558.8	4176.6	4777.4
55°	3364.0	3321.0	3200.4	3193.6	3190.8	3238.9	3616.6	3875.3	4453.5	5086.0
57.5°	3283.1	3234.4	3083.7	3187.4	3287.6	3434.8	3957.4	4249.6	4757.0	5377.0
60°	3044.7	3027.7	2935.9	3175.5	3328.3	3626.8	4347.0	4625.6	5085.4	5632.9
62.5°	2540.1	2554.9	2554.3	3200.4	3402.0	3845.3	4700.9	5006.1	5406.4	5879.3
65°	1902.0	1953.0	2018.1	2976.1	3500.5	4235.5	5123.9	5418.9	5732.6	6165.8
67.5°	1278.0	1318.8	1362.9	2441.6	3207.2	4645.4	5826.6	5984.6	6123.3	6483.4
70°	731.6	744.6	806.3	1524.9	2472.2	4532.2	6971.0	7028.2	6706.0	6874.7
72.5°	410.0	405.4	487.0	723.7	1381.6	3881.0	7371.9	7929.6	7227.5	6868.5
75°	274.1	274.6	335.2	456.4	538.5	2716.8	6352.6	7352.6	6914.9	6090.5
77.5°	186.9	193.1	246.3	352.8	249.1	1325.6	4202.6	5150.5	5598.4	4703.2
80°	81.0	81.5	162.5	253.1	168.2	421.8	2178.9	2759.3	3511.2	2640.9
82.5°	41.9	47.6	103.6	163.6	105.9	147.8	1029.4	1205.5	1473.4	775.2
85°	14.7	17.6	64.0	80.4	53.2	52.7	358.4	365.2	312.0	116.6
87.5°	0.0	2.8	24.9	19.8	6.8	6.2	42.5	35.7	28.3	16.4
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°
1282.5	0°	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5	1282.5
1295.6	2.5°	1283.7	1268.4	1243.5	1212.9	1177.2	1158.0	1130.2	1113.2	1097.9	1098.5
1313.1	5°	1285.4	1259.9	1196.5	1129.1	1054.3	999.4	938.3	895.2	862.4	854.5
1331.2	7.5°	1290.5	1247.4	1143.8	1031.7	907.1	814.8	730.4	677.2	647.2	639.3
1349.9	10°	1297.3	1233.8	1084.3	912.8	758.2	647.2	577.0	543.0	529.4	519.2
1373.7	12.5°	1302.9	1219.7	1009.6	789.9	625.7	539.1	485.8	457.5	445.6	438.3
1401.4	15°	1312.5	1201.0	928.6	675.5	536.2	465.4	415.1	394.1	390.7	391.8
1432.0	17.5°	1322.2	1182.9	838.0	586.1	470.5	400.9	370.3	366.9	371.5	376.0
1467.1	20°	1332.9	1156.8	746.3	518.7	410.0	356.2	348.2	350.5	352.8	360.7
1515.3	22.5°	1348.8	1124.0	665.9	461.5	359.6	334.6	330.7	332.4	334.1	342.0
1578.7	25°	1371.4	1088.9	600.8	408.8	327.9	317.1	313.1	313.1	315.4	322.8
1652.3	27.5°	1395.2	1039.0	548.1	360.1	309.2	297.8	291.0	291.0	293.9	302.4
1744.6	30°	1421.8	993.7	506.8	323.9	293.3	278.6	269.5	267.3	270.7	281.4
1878.2	32.5°	1470.0	964.3	477.3	306.9	279.2	261.0	248.6	242.4	245.7	258.2
2065.1	35°	1543.0	957.5	457.0	298.4	265.6	245.2	227.6	218.0	220.8	233.9
2295.5	37.5°	1628.5	971.7	437.1	287.1	252.5	229.9	206.7	194.2	198.7	210.6
2558.8	40°	1751.4	1030.6	421.8	278.6	239.5	211.8	185.7	173.3	180.6	190.8
2832.9	42.5°	1899.7	1135.3	417.9	270.7	223.7	192.5	166.5	157.4	163.1	172.7
3109.8	45°	2083.8	1268.9	436.0	260.5	206.1	173.8	151.2	146.1	147.8	157.4
3371.4	47.5°	2281.4	1406.0	485.8	251.4	190.8	158.5	139.3	134.8	133.6	142.7
3610.3	50°	2481.3	1527.7	544.7	244.6	180.1	146.1	130.2	124.6	121.7	127.4
3846.5	52.5°	2678.9	1624.5	583.2	233.3	169.3	133.6	122.3	113.8	108.7	111.5
4081.4	55°	2879.3	1709.5	585.5	216.3	159.1	125.7	114.4	104.8	98.5	98.5
4307.9	57.5°	3066.7	1784.2	552.1	193.7	145.0	118.3	103.6	95.7	88.9	86.6
4509.0	60°	3232.7	1839.7	496.6	168.2	132.5	108.7	92.9	86.6	78.1	73.6
4687.9	62.5°	3380.4	1866.9	420.7	142.1	117.2	97.4	82.7	75.9	64.6	58.9
4869.7	65°	3505.6	1839.1	341.4	117.8	104.2	84.9	70.8	64.0	51.5	44.7
5074.1	67.5°	3629.6	1712.3	258.2	99.1	90.6	71.3	58.3	52.1	43.0	37.4
5223.0	70°	3645.4	1445.6	180.6	83.2	75.3	54.9	47.0	43.0	35.1	30.0
4890.6	72.5°	3245.1	1040.2	109.9	67.9	58.9	39.1	37.4	34.0	26.0	22.6
3995.9	75°	2593.9	637.6	64.6	51.0	39.1	27.7	27.7	24.3	17.6	14.7
2758.7	77.5°	1792.7	333.5	37.9	32.8	23.2	16.4	18.1	14.7	8.5	6.8
1092.8	80°	718.0	126.8	20.4	15.3	10.8	7.4	6.2	3.4	1.7	1.1
224.2	82.5°	143.3	33.4	6.8	4.0	4.0	1.7	0.0	0.0	0.0	0.0
61.7	85°	36.8	7.4	1.7	1.1	1.1	0.0	0.0	0.0	0.0	0.0
20.4	87.5°	11.3	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>
1282.5
1111.0
866.3
647.2
525.5
442.2
393.5
377.7
363.0
344.3
325.6
305.8
284.3
261.6
237.8
214.0
192.5
174.4
161.9
148.4
129.7
113.8
99.7
87.2
72.5
58.3
44.7
37.4
29.4
22.1
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