

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: P945297

Luminaire Tested: **GALN-SB1B-750-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945297
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-SB1B-750-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 450mA 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: 4830 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

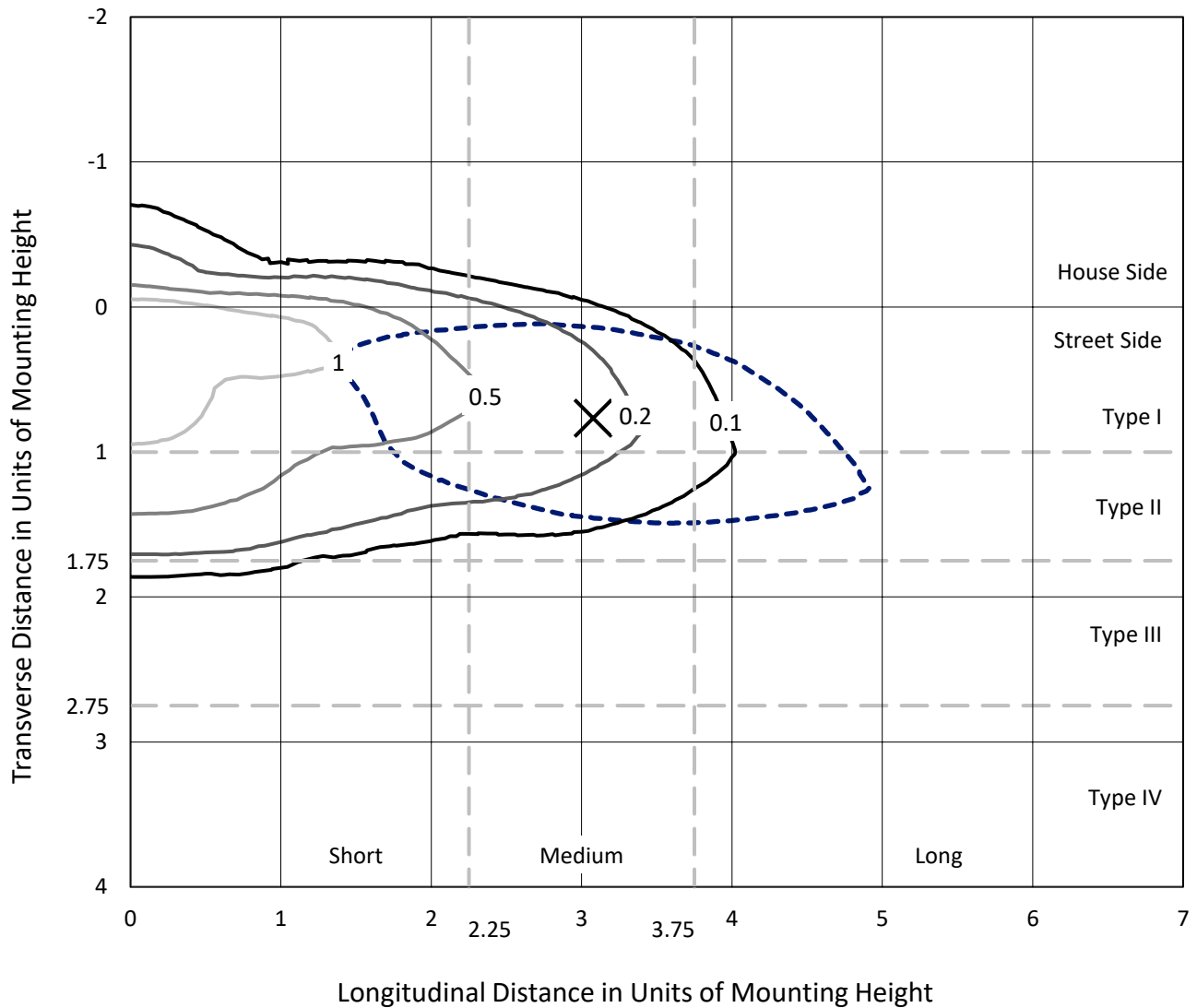
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

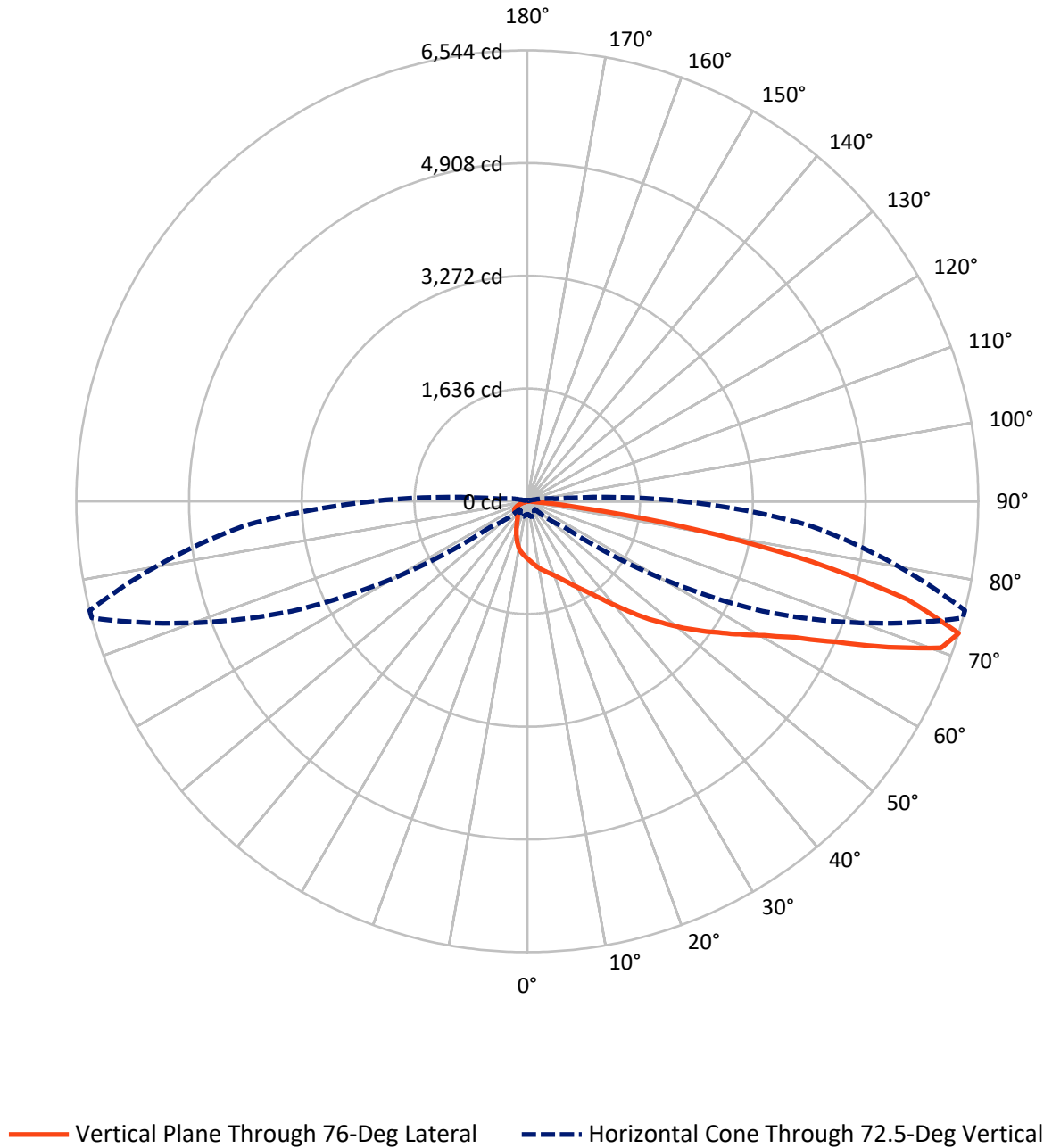
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	494.3	0.0	494.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	4335.6	0.0	4335.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	4830.0	0.0	4830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	1.6
10°-20°	203.5	4.2
20°-30°	322.2	6.7
30°-40°	498.4	10.3
40°-50°	757.0	15.7
50°-60°	1043.6	21.6
60°-70°	1102.5	22.8
70°-80°	756.4	15.7
80°-90°	70.4	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°	4830.0	100.0
0°-180°	4830.0	100.0

Coefficient of Utilization



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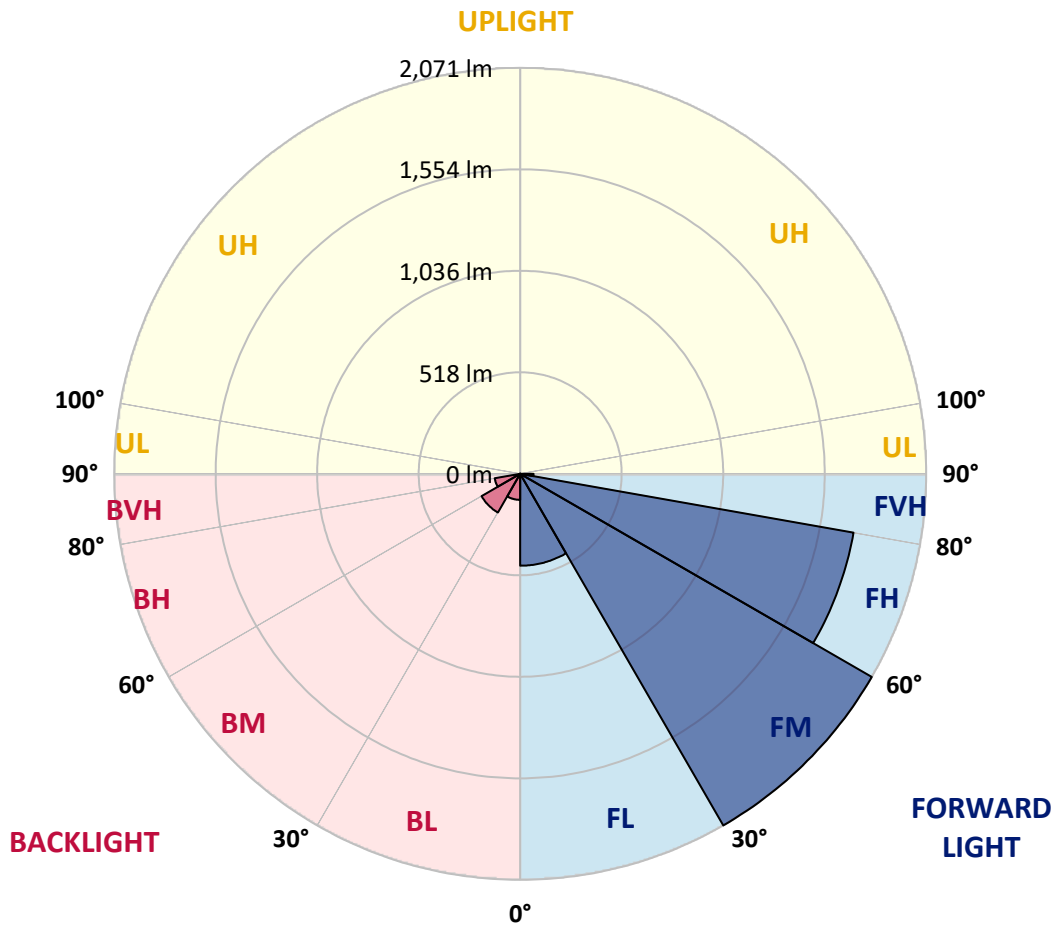
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	468.7	9.7			
FM (30°-60°)	2071.5	42.9			
FH (60°-80°)	1726.9	35.8			G1/1800
FVH (80°-90°)	68.5	1.4			G1/100
BL (0°-30°)	132.9	2.8	B1/500		
BM (30°-60°)	227.6	4.7	B1/1000		
BH (60°-80°)	132.0	2.7	B1/500		G1/500
BVH (80°-90°)	1.9	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-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7
2.5°	970.3	957.5	960.0	947.1	941.2	926.8	911.7	892.0	870.1	870.1
5°	1072.5	1064.3	1064.3	1049.3	1037.7	1015.1	988.2	953.4	912.1	908.0
7.5°	1135.1	1130.1	1133.3	1124.5	1115.1	1091.6	1059.6	1014.2	955.6	950.6
10°	1147.4	1147.0	1155.8	1158.3	1164.6	1152.7	1124.2	1071.8	998.5	991.3
12.5°	1100.0	1094.1	1115.7	1141.1	1176.8	1192.8	1178.1	1124.5	1037.7	1027.7
15°	1022.3	1023.6	1044.3	1083.4	1143.0	1200.0	1219.1	1175.9	1077.5	1065.6
17.5°	977.9	973.2	991.0	1026.1	1091.9	1172.4	1238.2	1223.8	1119.8	1106.3
20°	972.5	972.2	976.3	992.3	1042.4	1132.9	1236.0	1270.5	1169.6	1153.9
22.5°	1009.5	1008.9	1005.4	1002.3	1016.1	1094.4	1226.6	1315.0	1229.1	1212.2
25°	1066.2	1065.3	1059.9	1040.8	1027.4	1073.7	1217.8	1356.3	1299.6	1280.8
27.5°	1135.4	1134.8	1125.1	1096.3	1061.5	1075.6	1213.5	1398.9	1381.1	1362.6
30°	1220.4	1219.1	1199.0	1158.3	1112.9	1105.4	1219.4	1446.9	1466.0	1451.9
32.5°	1326.9	1323.4	1297.1	1235.7	1172.1	1145.2	1230.7	1496.1	1566.6	1553.4
35°	1409.3	1404.0	1388.6	1334.4	1240.7	1194.0	1257.0	1554.3	1687.5	1675.9
37.5°	1480.1	1474.8	1462.2	1417.7	1339.1	1256.4	1299.3	1632.0	1830.4	1824.7
40°	1556.5	1547.8	1541.8	1494.2	1423.1	1346.3	1359.8	1722.9	1994.9	1995.5
42.5°	1615.4	1612.0	1612.6	1576.0	1504.2	1452.8	1440.0	1825.4	2191.9	2197.9
45°	1665.9	1663.1	1674.7	1649.0	1586.0	1522.7	1534.0	1941.3	2407.5	2419.7
47.5°	1704.7	1707.9	1724.5	1707.9	1670.9	1571.9	1617.3	2066.3	2634.0	2635.6
50°	1743.6	1744.8	1772.4	1764.3	1749.2	1634.2	1694.1	2206.0	2872.8	2875.6
52.5°	1755.8	1753.9	1797.8	1817.8	1818.5	1711.3	1793.4	2358.3	3106.8	3115.9
55°	1693.1	1698.5	1769.3	1850.7	1883.0	1817.8	1927.5	2551.0	3356.2	3360.0
57.5°	1386.7	1416.2	1572.8	1761.8	1924.7	1970.4	2120.2	2776.3	3644.1	3640.7
60°	841.6	876.6	1064.0	1477.6	1788.7	2123.6	2404.1	3125.3	3958.7	3949.0
62.5°	470.6	481.2	541.1	884.5	1360.4	2026.2	2681.3	3573.6	4381.1	4348.2
65°	346.8	350.3	364.4	433.3	668.6	1558.4	2620.6	4109.7	4974.5	4915.9
67.5°	301.4	304.9	318.6	328.0	298.6	818.7	2159.0	4407.1	5728.0	5651.2
70°	253.8	255.7	277.9	284.2	213.7	311.4	1387.0	4315.3	6425.4	6370.6
72.5°	189.2	196.8	229.0	244.1	171.4	165.4	652.9	3772.9	6543.5	6544.2
75°	128.5	135.4	172.3	200.8	132.2	115.9	263.5	2817.3	5697.9	5697.9
77.5°	87.7	93.4	120.0	157.6	100.3	79.6	136.6	1788.1	4087.8	4231.6
80°	38.9	42.3	77.4	114.4	76.1	51.4	77.4	979.1	2472.0	2441.6
82.5°	19.1	21.9	49.5	71.4	49.2	31.6	40.7	465.6	801.1	761.4
85°	3.8	5.0	26.6	30.4	22.9	14.1	15.4	143.2	96.5	110.3
87.5°	0.0	0.0	8.1	5.6	2.5	3.1	3.1	12.8	7.5	8.8
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°
834.7	0°	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7	834.7
848.8	2.5°	837.5	825.9	800.5	775.4	749.8	726.3	710.0	693.7	683.6	679.3
867.6	5°	844.1	820.6	767.3	711.5	656.4	602.5	562.1	524.2	512.3	492.5
889.8	7.5°	854.4	816.2	732.2	638.2	548.6	469.7	412.6	367.2	349.0	331.5
908.9	10°	861.3	808.0	685.8	560.2	439.0	350.3	295.8	262.9	251.0	240.3
926.8	12.5°	864.1	793.0	632.6	472.8	341.5	266.9	234.4	219.0	214.9	211.2
943.7	15°	866.6	778.3	573.0	388.5	269.8	223.4	210.5	205.5	202.7	200.2
960.9	17.5°	868.8	759.5	505.1	315.8	227.8	205.8	199.6	194.3	192.1	189.2
985.7	20°	876.3	741.3	444.3	260.7	204.9	193.3	186.4	180.8	178.9	177.0
1020.8	22.5°	890.4	726.6	385.4	223.4	191.1	180.5	171.7	165.4	164.2	162.9
1063.4	25°	907.4	708.4	329.9	199.3	177.6	165.7	156.0	150.7	149.5	149.8
1112.6	27.5°	929.0	688.3	282.3	183.9	165.7	152.0	141.0	136.9	137.5	138.8
1169.3	30°	952.8	669.9	245.0	173.3	155.1	139.7	128.8	126.0	128.1	130.0
1245.1	32.5°	988.2	653.6	219.0	164.8	145.7	129.7	120.9	117.5	120.0	122.5
1341.9	35°	1036.4	645.4	204.3	157.6	137.5	121.9	113.1	110.6	113.1	113.7
1460.0	37.5°	1095.7	644.8	198.0	151.6	130.0	115.3	105.6	104.6	106.5	106.8
1602.0	40°	1172.1	648.9	193.3	147.3	122.2	107.8	98.7	97.8	98.4	100.6
1772.7	42.5°	1268.9	665.8	186.7	141.6	113.7	100.3	93.1	90.9	90.5	93.1
1963.8	45°	1390.5	703.1	178.0	132.5	106.2	94.0	86.8	84.3	83.3	84.0
2161.2	47.5°	1523.0	748.8	169.2	124.1	100.9	89.0	81.8	78.6	77.1	77.1
2345.8	50°	1651.5	800.5	163.2	115.3	97.1	84.3	76.4	73.3	70.8	70.2
2535.6	52.5°	1778.7	851.3	158.5	106.5	92.7	78.3	71.4	68.0	65.2	63.9
2723.6	55°	1894.6	899.5	150.4	98.1	87.1	72.1	66.4	63.0	59.5	57.3
2914.1	57.5°	2005.8	939.6	135.4	89.3	78.3	66.1	61.1	57.3	53.3	50.4
3106.8	60°	2107.0	960.3	116.6	79.9	69.6	59.8	55.1	51.7	46.4	41.7
3296.4	62.5°	2184.1	952.2	96.2	69.2	60.5	54.2	48.3	44.8	38.5	32.9
3523.5	65°	2263.1	907.7	76.8	58.0	52.9	46.7	40.4	37.0	29.8	23.8
3830.9	67.5°	2365.5	812.7	60.5	48.3	45.7	37.0	31.6	29.5	24.4	18.8
4160.8	70°	2431.3	631.3	47.0	39.2	37.6	26.9	24.4	24.1	19.4	14.4
4138.6	72.5°	2250.8	413.9	36.0	29.8	26.9	17.5	18.8	18.8	14.1	9.7
3627.9	75°	1878.9	242.2	26.0	21.3	15.4	11.3	12.8	12.8	8.8	4.7
2585.8	77.5°	1341.9	129.1	17.2	13.2	7.8	5.0	6.9	6.6	2.8	0.3
1013.6	80°	513.2	44.5	8.1	5.3	2.2	0.9	0.6	0.3	0.3	0.0
158.2	82.5°	78.3	11.6	1.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
33.5	85°	14.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.8	87.5°	3.1	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>
834.7
679.9
493.8
331.2
240.0
211.2
200.2
189.2
177.3
162.0
149.1
138.2
129.4
121.9
113.4
106.2
100.3
92.7
84.9
77.1
69.9
63.3
56.4
49.2
40.4
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