

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: P947850

Luminaire Tested: **GALN-SB3A-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9744 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

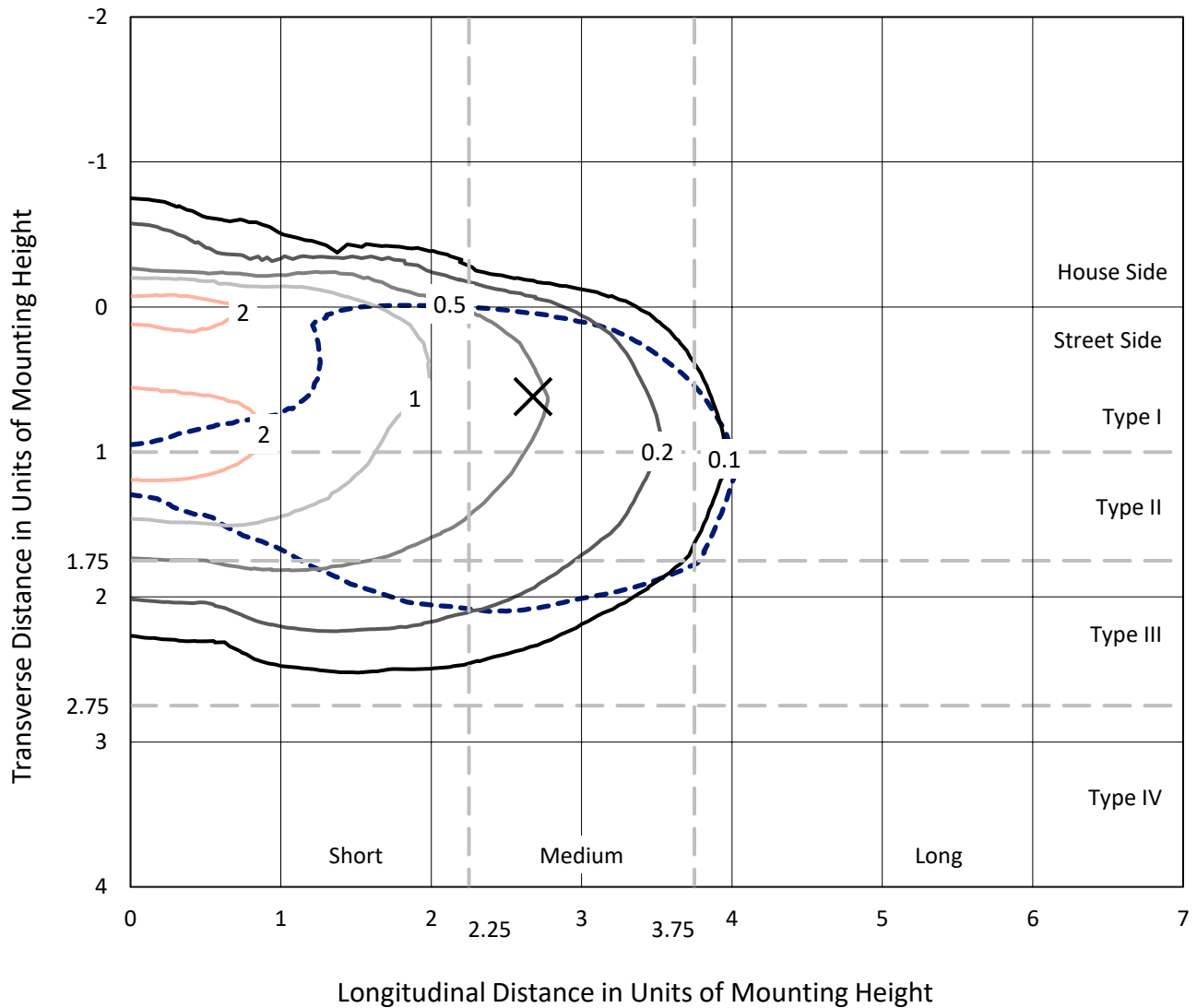
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

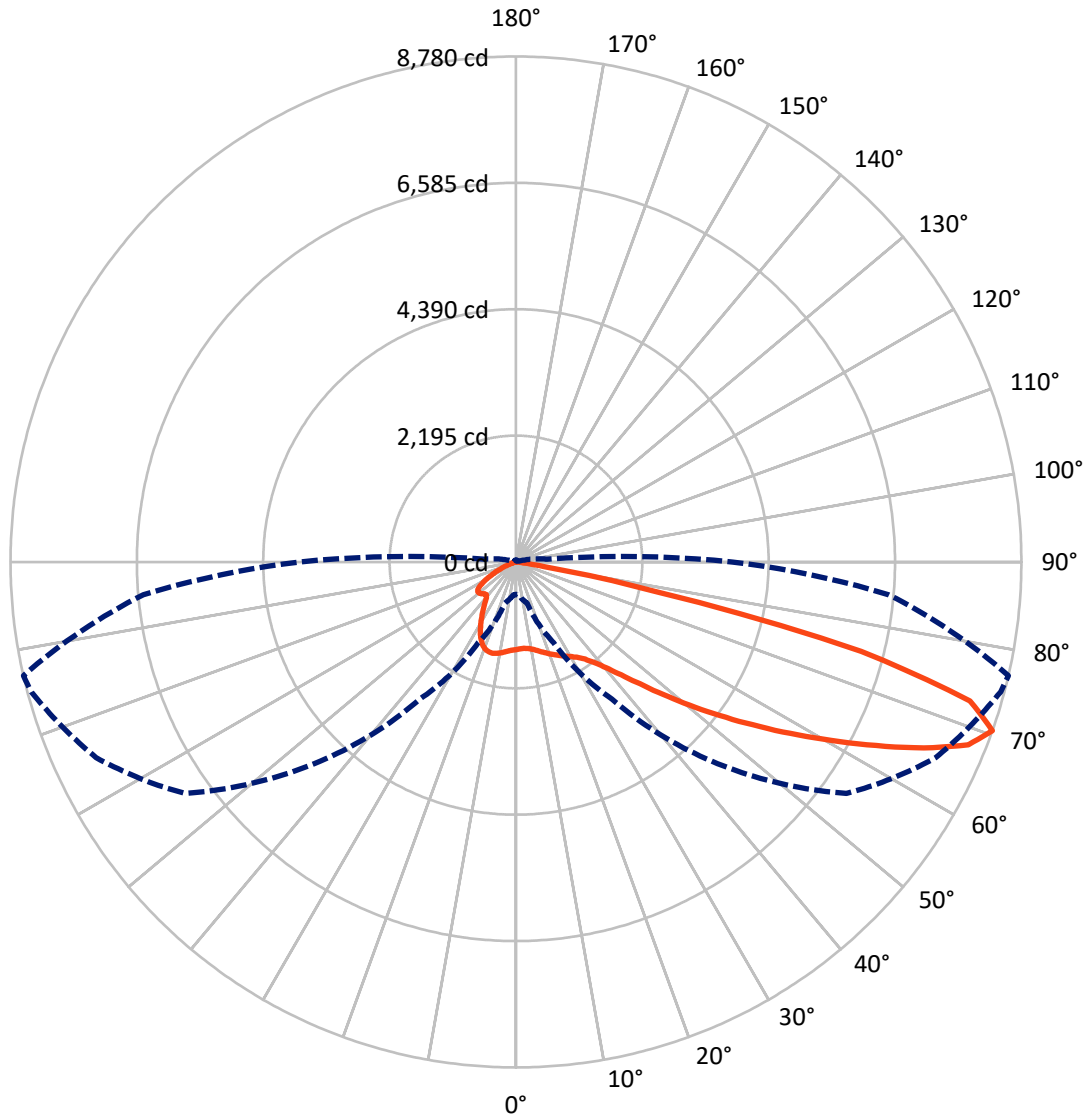
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1027.2	0.0	1027.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	8716.8	0.0	8716.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	9744.0	0.0	9744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	1.3
10°-20°	311.0	3.2
20°-30°	481.0	4.9
30°-40°	872.7	9.0
40°-50°	1647.4	16.9
50°-60°	2380.3	24.4
60°-70°	2533.8	26.0
70°-80°	1342.7	13.8
80°-90°	44.1	0.5
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°	9744.0	100.0
0°-180°	9744.0	100.0

Coefficient of Utilization



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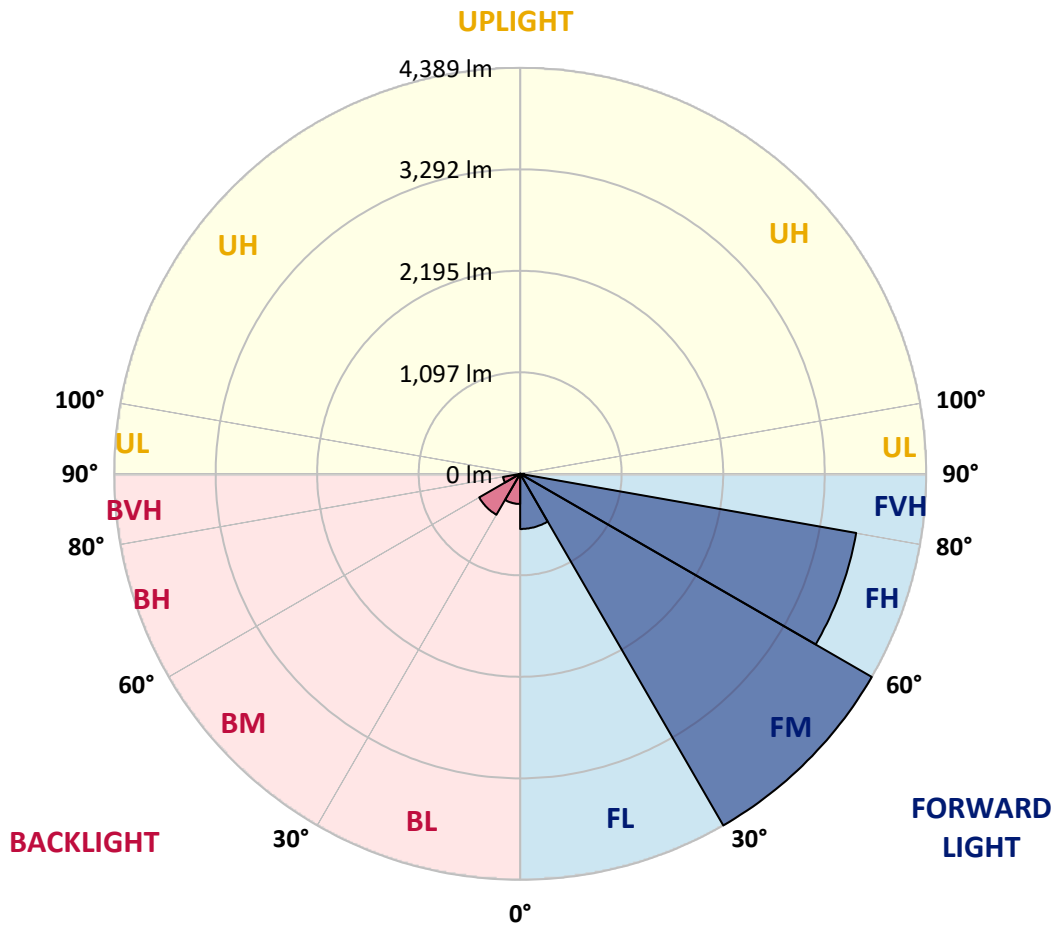
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	596.6	6.1			
FM (30°-60°)	4389.1	45.0			
FH (60°-80°)	3688.2	37.9			G2/5000
FVH (80°-90°)	42.9	0.4			G1/100
BL (0°-30°)	326.3	3.3	B1/500		
BM (30°-60°)	511.3	5.2	B1/1000		
BH (60°-80°)	188.3	1.9	B1/500		G1/500
BVH (80°-90°)	1.2	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°	65°	75°	77°
0°	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9
2.5°	1427.0	1439.9	1438.0	1446.7	1449.7	1462.0	1474.4	1491.0	1509.4	1508.8
5°	1346.4	1359.3	1362.4	1374.1	1388.8	1407.9	1433.1	1466.4	1500.8	1506.4
7.5°	1251.0	1264.5	1272.5	1295.9	1323.0	1362.4	1403.6	1452.2	1509.4	1517.4
10°	1155.6	1167.9	1178.4	1211.6	1254.7	1313.1	1380.2	1450.4	1527.3	1539.0
12.5°	1096.5	1108.2	1119.9	1148.8	1202.4	1273.8	1364.8	1459.0	1556.8	1573.4
15°	1075.6	1086.1	1095.3	1121.1	1171.0	1252.2	1361.7	1476.8	1594.3	1616.5
17.5°	1078.7	1084.2	1090.4	1110.1	1158.7	1242.4	1367.3	1507.6	1638.6	1658.3
20°	1096.5	1099.6	1100.2	1113.8	1156.8	1241.1	1378.4	1537.1	1680.5	1707.0
22.5°	1119.3	1120.5	1119.3	1128.5	1168.5	1250.4	1393.1	1572.8	1727.3	1751.9
25°	1225.8	1202.4	1172.8	1155.0	1188.2	1268.2	1415.3	1620.8	1778.3	1802.3
27.5°	1556.2	1489.1	1383.3	1264.5	1228.8	1294.1	1446.0	1669.4	1830.0	1851.6
30°	2092.8	2004.8	1825.1	1557.4	1359.3	1348.2	1486.0	1718.0	1884.8	1908.2
32.5°	2630.6	2609.0	2401.7	2031.2	1652.8	1468.8	1552.5	1783.9	1957.4	1975.9
35°	3174.5	3130.8	2961.0	2594.9	2105.1	1714.3	1663.3	1870.0	2052.8	2073.7
37.5°	3591.1	3564.7	3459.4	3157.9	2641.7	2093.4	1852.8	2003.5	2191.2	2214.6
40°	3959.1	3946.8	3911.1	3712.3	3241.6	2589.3	2147.5	2210.3	2383.2	2410.9
42.5°	4248.3	4277.2	4297.5	4242.1	3860.0	3155.5	2543.8	2500.7	2650.9	2679.2
45°	4544.3	4554.1	4636.0	4716.0	4474.1	3747.4	2990.5	2841.0	2983.8	3018.9
47.5°	4734.4	4773.8	4917.8	5058.7	4990.4	4334.4	3470.5	3242.8	3369.6	3435.4
50°	4748.6	4823.0	5021.2	5266.7	5366.4	4893.2	3992.3	3700.7	3835.4	3908.0
52.5°	4512.9	4628.6	4935.6	5295.0	5569.4	5366.4	4532.0	4158.5	4331.4	4426.1
55°	3460.1	3611.4	4613.8	5141.2	5577.4	5725.1	5057.5	4635.4	4883.9	4991.0
57.5°	3014.5	3090.8	3627.4	4874.1	5429.1	5869.7	5532.5	5089.5	5485.1	5618.0
60°	2508.1	2608.4	3042.2	4437.2	5227.9	5883.9	5952.2	5675.3	6136.8	6286.3
62.5°	1704.5	1813.4	2244.8	3686.5	4952.9	5877.1	6296.2	6278.3	6861.0	7021.6
65°	1055.9	1124.2	1408.5	3010.2	4568.3	5884.5	6656.1	7010.6	7625.3	7788.3
67.5°	834.4	865.8	1014.1	2311.2	3905.6	5718.3	7015.5	7699.1	8344.6	8473.8
70°	560.6	579.6	737.8	1549.4	2905.6	4951.6	7008.7	8044.9	8715.1	8779.7
72.5°	295.4	310.1	431.4	717.5	1754.9	3519.7	5907.9	7631.4	8346.5	8249.2
75°	147.7	172.3	290.4	364.3	749.5	1962.9	3668.7	6016.8	6569.4	6192.8
77.5°	112.0	135.4	240.0	240.0	260.9	660.9	1553.7	3281.6	3026.9	2520.4
80°	71.4	92.3	209.8	181.5	108.9	168.0	404.9	919.3	643.0	489.2
82.5°	41.8	60.3	174.8	120.0	60.9	62.1	114.5	195.7	166.8	129.8
85°	16.6	39.4	120.0	47.4	24.0	15.4	34.5	41.8	34.5	25.8
87.5°	0.0	9.2	20.9	0.0	1.8	1.2	2.5	3.1	3.1	2.5
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°
1519.9	0°	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9	1519.9
1521.1	2.5°	1526.7	1527.9	1531.6	1532.2	1523.6	1512.5	1508.2	1506.4	1499.0	1498.4
1531.0	5°	1545.1	1550.7	1545.1	1529.1	1491.0	1437.4	1396.8	1363.6	1333.4	1324.2
1564.8	7.5°	1582.0	1587.6	1571.0	1508.2	1412.2	1305.7	1209.8	1142.1	1081.2	1058.4
1606.0	10°	1635.0	1642.3	1590.0	1463.3	1293.4	1122.4	959.9	845.5	756.3	719.9
1662.0	12.5°	1701.4	1704.5	1600.5	1395.0	1139.0	894.7	664.6	542.1	462.7	433.2
1729.7	15°	1774.6	1770.3	1601.7	1302.1	928.5	632.6	433.8	356.3	324.3	314.4
1797.4	17.5°	1851.6	1833.7	1577.1	1167.9	697.8	432.6	321.8	303.4	297.8	295.4
1864.5	20°	1927.2	1887.2	1532.2	992.5	500.9	323.1	292.3	286.7	283.7	282.4
1932.2	22.5°	1996.2	1927.9	1455.3	788.9	363.7	285.5	276.3	271.4	265.8	263.4
1998.0	25°	2063.2	1951.2	1347.0	598.7	291.1	267.1	259.7	250.4	243.1	240.0
2068.8	27.5°	2128.5	1966.0	1211.6	443.0	259.7	249.8	236.3	223.4	217.8	216.6
2144.5	30°	2198.0	1970.9	1057.8	330.4	240.6	228.3	208.6	193.8	190.8	191.4
2246.6	32.5°	2282.9	1978.3	902.7	270.7	224.6	202.4	179.1	163.7	161.2	163.7
2395.5	35°	2384.4	1993.1	753.2	249.2	210.4	176.0	150.8	137.8	135.4	137.2
2586.3	37.5°	2522.3	2017.1	613.5	244.9	198.8	153.8	126.8	116.3	116.3	116.9
2820.1	40°	2705.6	2081.1	488.6	241.8	192.6	137.2	107.1	102.8	104.6	105.8
3117.9	42.5°	2929.0	2217.1	404.3	238.1	185.8	129.8	97.2	95.4	98.5	99.7
3474.8	45°	3179.5	2389.4	374.7	232.0	179.7	134.8	92.9	90.5	94.1	94.8
3874.8	47.5°	3438.5	2558.0	371.0	225.2	173.5	142.1	91.7	86.1	90.5	91.1
4301.8	50°	3700.7	2668.1	374.7	214.8	163.7	142.1	92.3	81.8	85.5	87.4
4744.9	52.5°	3964.6	2718.6	372.3	192.0	146.5	133.5	92.3	78.1	81.8	83.1
5223.6	55°	4220.6	2708.7	334.7	158.1	124.3	118.1	89.8	75.1	77.5	78.1
5675.9	57.5°	4423.1	2571.5	265.2	123.1	100.9	98.5	81.8	71.4	73.2	72.6
6090.6	60°	4528.9	2270.0	189.5	94.8	79.4	77.5	72.0	66.5	67.7	64.6
6442.0	62.5°	4530.1	1871.2	126.8	75.1	63.4	61.5	61.5	59.7	58.5	52.3
6714.0	65°	4433.5	1428.8	84.3	59.7	51.1	48.0	51.7	51.1	46.8	38.2
6797.0	67.5°	4214.5	936.5	64.0	46.8	39.4	37.5	41.2	43.1	40.0	32.0
6494.3	70°	3764.0	545.2	52.9	36.3	29.5	27.7	33.2	36.9	33.2	25.8
5551.0	72.5°	3126.5	294.1	43.1	27.1	20.3	18.5	26.5	30.2	26.5	19.1
3561.6	75°	2028.8	157.5	33.2	17.8	10.5	11.7	19.7	22.2	18.5	12.3
1045.5	77.5°	681.2	69.5	20.9	8.6	4.9	4.9	11.7	13.5	8.6	4.3
190.1	80°	152.0	28.9	8.6	3.7	1.8	1.8	2.5	2.5	1.2	0.0
58.5	82.5°	49.8	11.7	3.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
14.8	85°	19.1	4.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.9	87.5°	7.4	0.6	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>
1519.9
1499.6
1318.7
1049.2
704.6
424.0
314.4
294.7
281.2
262.7
238.8
215.4
191.4
163.1
136.6
116.3
105.8
99.7
95.4
91.7
88.0
83.1
78.1
72.6
64.0
50.5
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