

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: P939768

Luminaire Tested: **GALN-SB2C-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11340 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

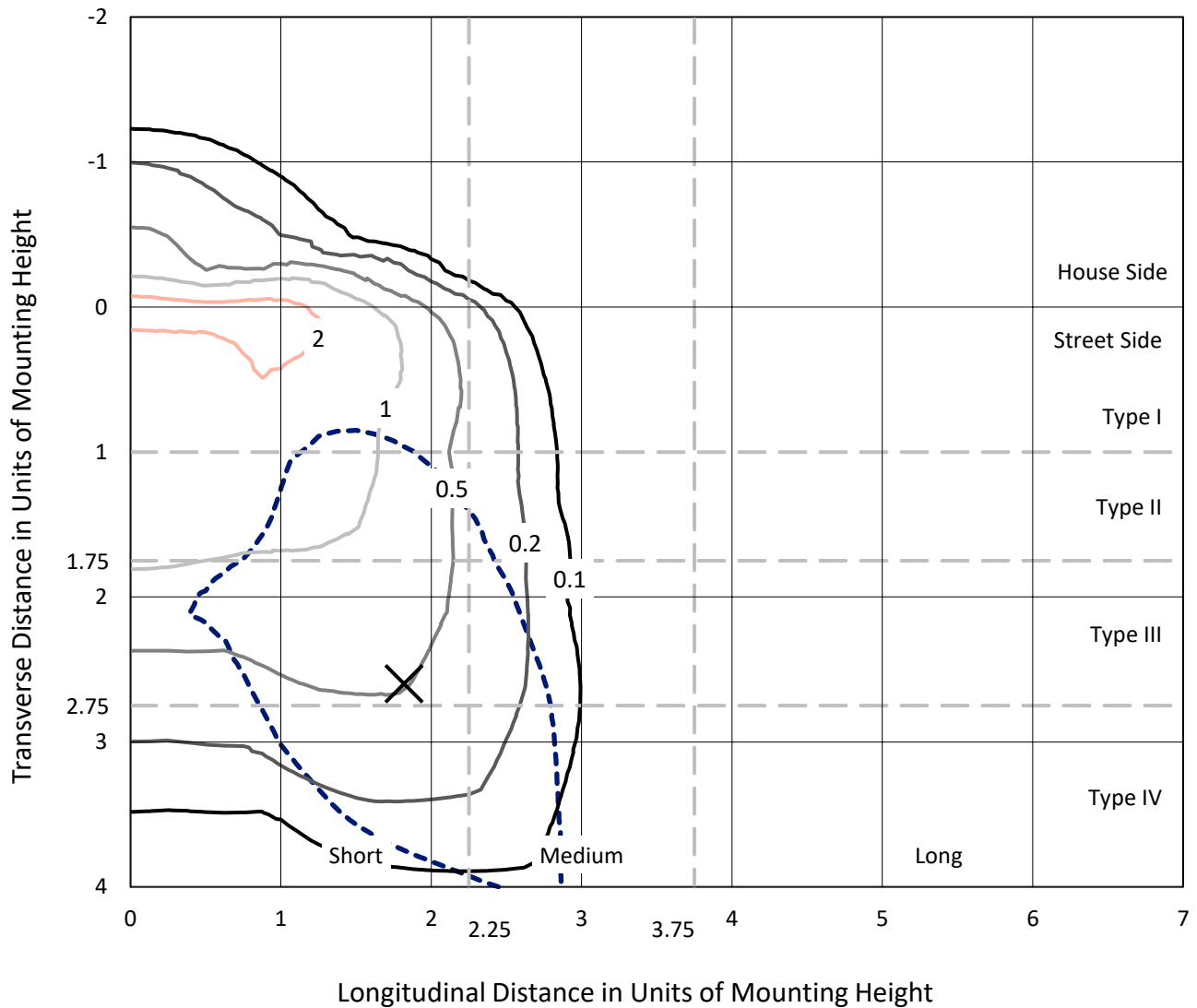
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

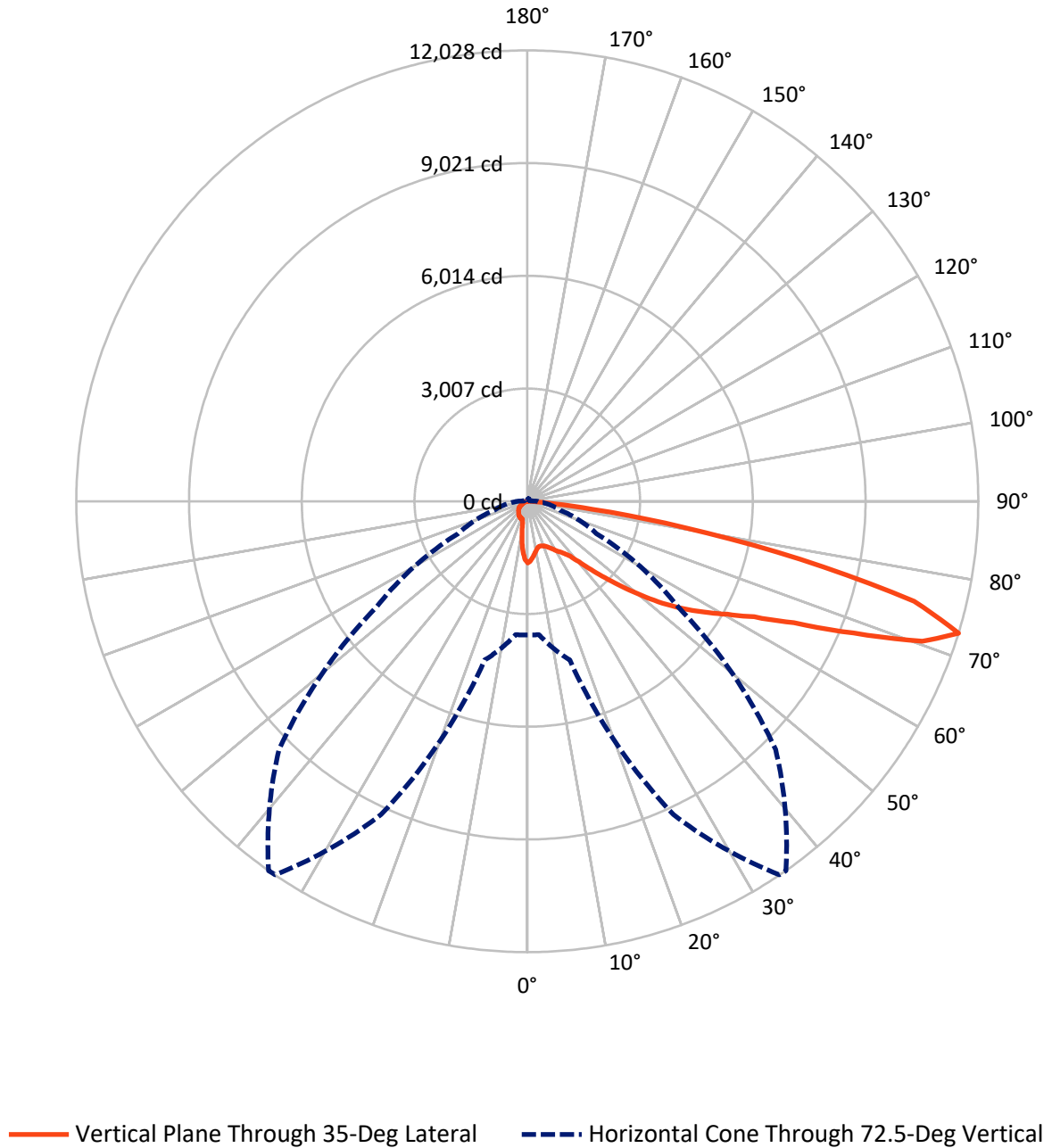
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1276.3	0.0	1276.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	10063.7	0.0	10063.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	11340.0	0.0	11340.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	1.2
10°-20°	315.9	2.8
20°-30°	513.2	4.5
30°-40°	856.3	7.6
40°-50°	1620.2	14.3
50°-60°	2574.5	22.7
60°-70°	3184.9	28.1
70°-80°	1979.7	17.5
80°-90°	160.0	1.4
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°	11340.0	100.0
0°-180°	11340.0	100.0

Coefficient of Utilization



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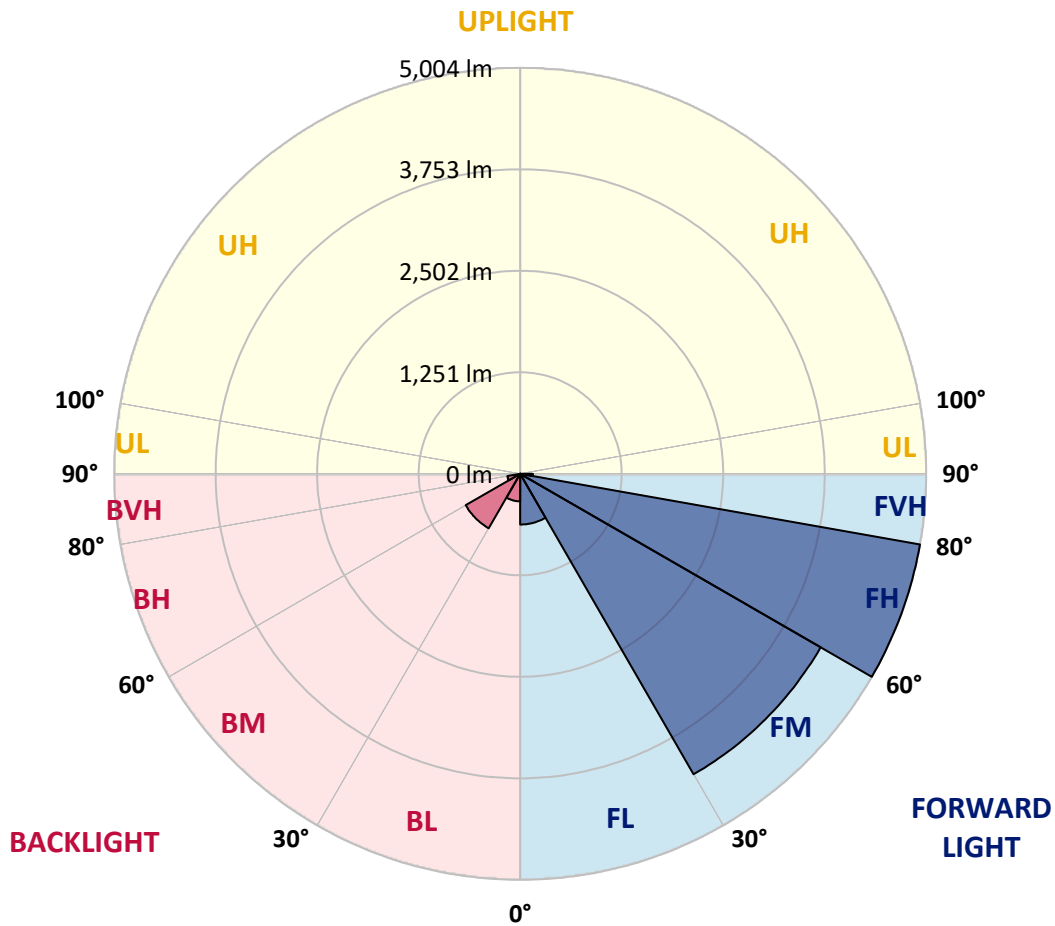
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	625.1	5.5			
FM (30°-60°)	4276.3	37.7			
FH (60°-80°)	5004.5	44.1			G3/7500
FVH (80°-90°)	157.8	1.4			G2/225
BL (0°-30°)	339.1	3.0	B1/500		
BM (30°-60°)	774.8	6.8	B1/1000		
BH (60°-80°)	160.1	1.4	B1/500		G1/500
BVH (80°-90°)	2.2	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5
2.5°	1570.4	1583.7	1586.2	1590.4	1590.4	1595.4	1603.7	1615.3	1634.4	1644.4
5°	1447.5	1457.4	1469.9	1479.9	1499.0	1501.5	1533.9	1565.4	1609.5	1642.7
7.5°	1323.6	1335.3	1351.9	1376.0	1400.9	1408.4	1457.4	1510.6	1580.4	1642.7
10°	1236.4	1237.2	1252.2	1276.3	1316.2	1325.3	1385.1	1460.7	1548.0	1632.7
12.5°	1187.4	1193.2	1199.8	1218.1	1256.3	1262.2	1326.1	1415.0	1515.6	1626.9
15°	1187.4	1191.5	1195.7	1204.8	1235.6	1240.6	1297.1	1386.0	1499.0	1629.4
17.5°	1199.8	1206.5	1203.2	1214.0	1246.4	1249.7	1299.5	1377.7	1498.1	1645.2
20°	1229.8	1234.7	1228.1	1234.7	1267.1	1273.8	1325.3	1393.4	1512.3	1672.6
22.5°	1277.1	1279.6	1263.8	1268.8	1302.0	1310.4	1370.2	1438.3	1546.3	1716.7
25°	1336.9	1341.9	1317.8	1323.6	1355.2	1365.2	1434.2	1505.6	1600.3	1777.3
27.5°	1405.9	1408.4	1387.6	1386.8	1427.5	1441.6	1511.4	1588.7	1672.6	1853.8
30°	1484.8	1492.3	1472.4	1469.1	1520.6	1532.2	1601.2	1690.9	1779.0	1968.4
32.5°	1547.2	1553.0	1541.3	1549.7	1602.0	1611.1	1710.0	1835.5	1946.0	2131.3
35°	1636.9	1640.2	1613.6	1628.6	1688.4	1711.7	1858.8	2038.2	2156.2	2335.7
37.5°	1961.8	1961.8	1848.8	1774.8	1832.2	1852.9	2062.3	2293.3	2415.5	2609.9
40°	2411.3	2403.8	2238.5	2087.3	2079.8	2120.5	2352.3	2614.9	2750.3	2938.9
42.5°	2890.7	2879.1	2653.9	2504.4	2479.4	2493.6	2687.2	3011.2	3149.2	3340.3
45°	3316.2	3312.9	3106.8	2905.7	2860.8	2905.7	3105.1	3474.9	3573.8	3774.8
47.5°	3672.6	3672.6	3522.2	3391.0	3367.7	3394.3	3671.0	3989.2	3980.1	4237.7
50°	4083.1	4079.8	3936.9	3880.4	3904.5	3941.9	4322.4	4531.0	4400.5	4692.2
52.5°	4370.6	4390.5	4341.5	4332.4	4455.4	4520.2	4983.8	5061.1	4776.9	5123.4
55°	4598.3	4621.5	4678.0	4742.0	4978.8	5063.6	5624.5	5563.8	5091.8	5497.3
57.5°	4920.7	4887.4	4974.7	5101.0	5484.0	5586.2	6245.1	6038.2	5345.3	5800.6
60°	5312.0	5317.0	5332.0	5491.5	5988.4	6119.7	6856.7	6486.9	5508.1	5986.7
62.5°	5782.3	5789.8	5820.5	6065.7	6665.6	6789.4	7508.1	6854.2	5582.9	5934.4
65°	5749.9	5781.5	6124.7	6963.1	7695.1	7817.2	8268.4	7111.8	5469.9	5455.8
67.5°	5238.1	5289.6	5863.8	8034.9	9247.2	9383.5	9187.4	7162.5	4982.2	4242.6
70°	4566.7	4585.0	5275.5	8998.8	11044.5	11182.4	10010.0	6604.9	3780.7	2366.4
72.5°	3566.3	3570.4	4380.6	9222.3	12020.0	12027.5	9364.4	4903.2	2033.2	909.0
75°	2547.6	2522.7	2934.0	7479.0	10575.0	10659.8	7020.4	2300.0	776.9	429.6
77.5°	1366.0	1393.4	1660.2	4435.4	7305.4	7450.0	3830.5	663.1	395.5	292.5
80°	422.1	445.4	680.5	2030.8	4137.9	4225.2	1420.0	295.0	275.9	208.6
82.5°	132.9	137.9	317.4	853.3	1717.5	1757.4	411.3	167.0	188.6	137.9
85°	38.2	39.1	141.3	318.2	424.6	432.9	115.5	64.8	108.0	85.6
87.5°	4.2	13.3	53.2	53.2	37.4	36.6	12.5	14.1	30.7	10.8
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°
1643.5	0°	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5	1643.5
1651.0	2.5°	1646.9	1647.7	1636.9	1618.6	1598.7	1582.1	1561.3	1544.7	1533.0	1529.7
1666.0	5°	1658.5	1652.7	1621.9	1566.3	1499.8	1442.5	1378.5	1327.8	1294.6	1280.4
1681.8	7.5°	1676.0	1659.3	1592.0	1482.3	1355.2	1242.2	1127.5	1038.6	982.1	953.9
1696.7	10°	1690.9	1657.7	1542.2	1361.0	1166.6	995.4	840.9	733.7	673.9	645.6
1714.2	12.5°	1705.0	1656.8	1477.4	1217.3	953.9	744.5	600.8	547.6	531.0	525.1
1742.4	15°	1731.6	1659.3	1395.9	1052.8	742.0	562.5	510.2	509.3	512.7	511.0
1785.6	17.5°	1768.2	1661.8	1303.7	878.3	572.5	496.1	493.6	501.0	506.0	503.5
1839.6	20°	1815.5	1671.8	1205.7	705.4	491.9	479.4	485.3	491.9	496.1	491.9
1911.9	22.5°	1882.0	1689.2	1098.5	566.7	466.1	469.5	474.5	481.9	486.1	480.3
2004.2	25°	1963.4	1716.7	992.9	492.7	453.7	457.8	465.3	473.6	478.6	472.8
2120.5	27.5°	2069.0	1760.7	895.7	476.1	441.2	443.7	454.5	467.0	473.6	466.1
2285.8	30°	2221.9	1833.0	811.8	483.6	433.7	427.9	442.9	460.3	467.8	461.2
2511.0	32.5°	2424.6	1935.2	760.3	495.2	430.4	409.6	423.8	446.2	458.7	454.5
2805.2	35°	2690.5	2090.6	740.3	508.5	427.9	390.5	400.5	424.6	446.2	450.4
3175.8	37.5°	3012.9	2306.6	746.2	514.3	420.4	374.7	379.7	400.5	428.8	442.0
3592.9	40°	3379.3	2558.4	779.4	508.5	412.1	361.4	362.3	378.1	403.0	422.9
4041.6	42.5°	3757.4	2852.5	840.9	486.9	404.7	349.8	347.3	358.1	374.7	388.9
4489.4	45°	4117.2	3155.0	901.5	457.0	395.5	338.2	332.4	336.5	339.8	345.7
4925.7	47.5°	4431.3	3367.7	884.1	429.6	383.1	324.9	314.9	313.3	303.3	302.5
5315.4	50°	4648.1	3414.2	785.2	402.2	364.8	309.9	294.1	284.2	266.7	258.4
5607.0	52.5°	4717.1	3230.6	641.5	374.7	334.9	290.0	267.6	251.8	230.2	222.7
5774.8	55°	4625.7	2870.8	512.7	341.5	293.3	263.4	238.5	217.7	200.3	191.1
5793.1	57.5°	4402.2	2413.0	405.5	302.5	249.3	233.5	208.6	187.8	172.8	163.7
5590.4	60°	4031.6	1916.1	320.7	255.9	212.7	201.1	175.3	162.0	148.7	137.9
5066.9	62.5°	3469.1	1367.7	251.8	202.7	177.8	164.5	149.6	139.6	123.8	108.8
4125.5	65°	2707.1	836.7	194.4	148.7	142.9	136.3	127.1	118.0	98.9	83.9
2691.3	67.5°	1707.5	396.3	138.8	112.2	113.0	109.7	105.5	98.0	83.9	70.6
1205.7	70°	752.0	191.9	91.4	85.6	83.9	83.9	87.2	84.8	71.5	59.0
418.8	72.5°	255.9	103.0	68.1	64.8	60.7	59.8	73.1	70.6	57.3	45.7
208.6	75°	133.8	69.0	49.9	46.5	36.6	44.0	58.2	54.8	40.7	29.9
137.9	77.5°	87.2	49.0	34.1	29.9	20.8	29.1	43.2	38.2	24.1	15.0
90.6	80°	54.8	32.4	19.9	14.1	10.0	15.8	23.3	16.6	9.1	3.3
53.2	82.5°	29.1	16.6	7.5	5.0	4.2	5.0	5.8	4.2	1.7	0.0
27.4	85°	11.6	5.8	2.5	1.7	0.8	0.0	1.7	0.8	0.0	0.0
5.0	87.5°	4.2	0.8	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>
1643.5
1535.5
1285.4
958.0
646.5
523.5
510.2
502.7
491.1
479.4
472.0
466.1
460.3
454.5
450.4
445.4
429.6
394.7
349.0
301.6
259.2
221.9
191.1
162.0
135.4
106.4
81.4
69.0
56.5
43.2
27.4
13.3
2.5
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