

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: P940128

Luminaire Tested: **GALN-SB3A-750-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940128  
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-SB3A-750-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

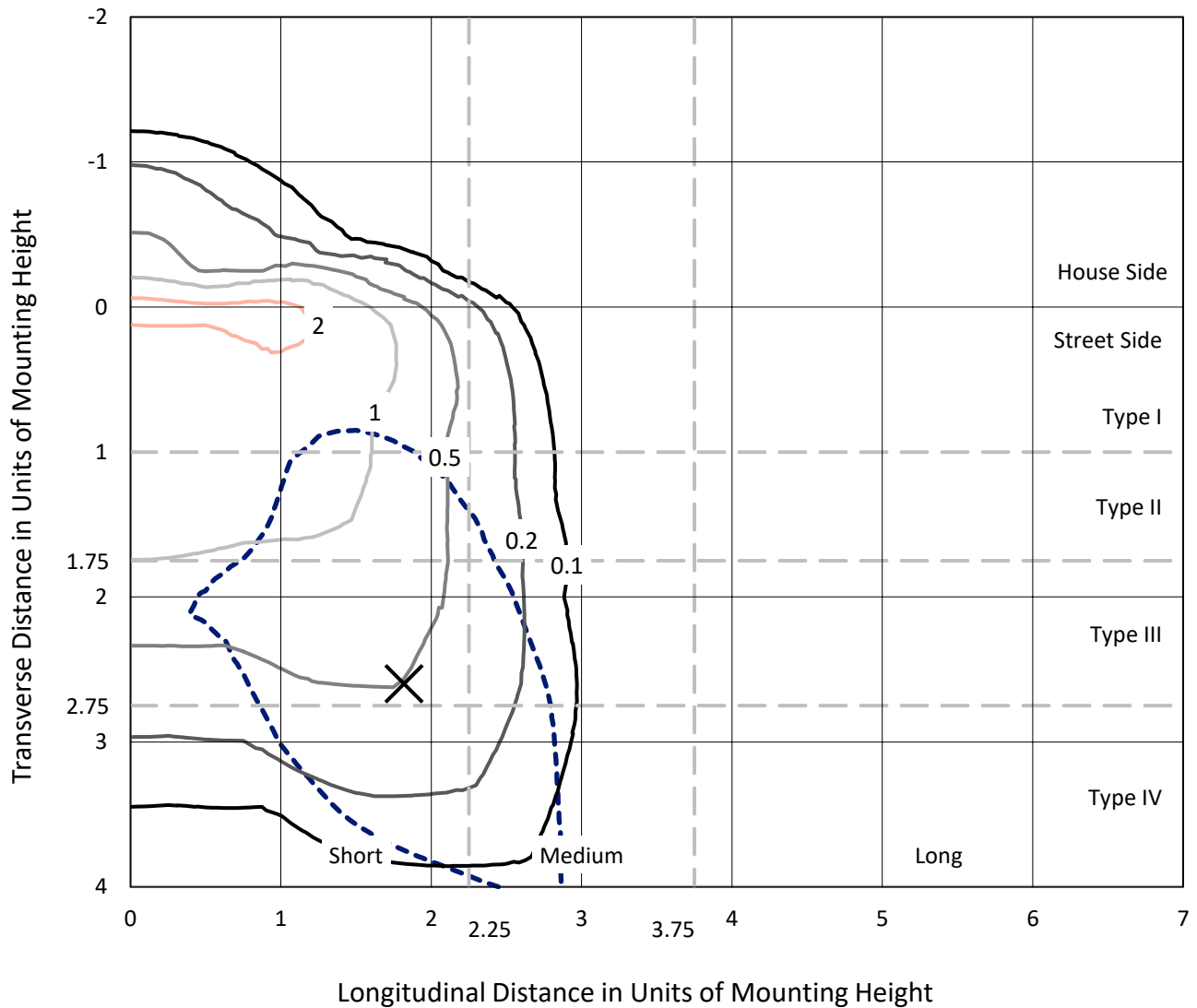
Lumens per Lamp: N/A  
Luminaire Lumens: 10781 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

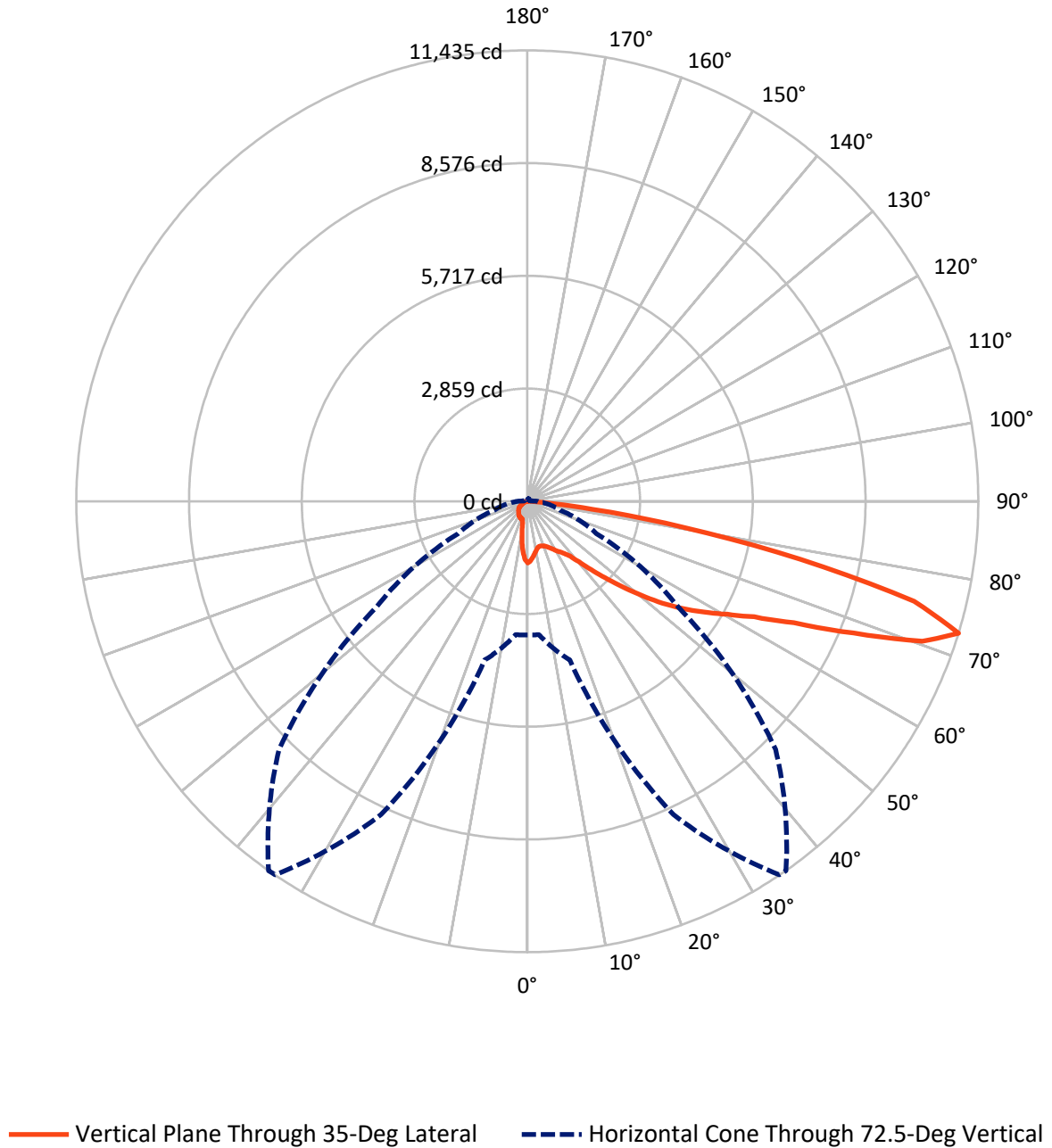
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1213.4	0.0	1213.4
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	9567.6	0.0	9567.6
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	10781.0	0.0	10781.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.4	1.2
10°-20°	300.4	2.8
20°-30°	487.9	4.5
30°-40°	814.1	7.6
40°-50°	1540.4	14.3
50°-60°	2447.6	22.7
60°-70°	3027.9	28.1
70°-80°	1882.2	17.5
80°-90°	152.1	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°	10781.0	100.0
0°-180°	10781.0	100.0

**Coefficient of Utilization**



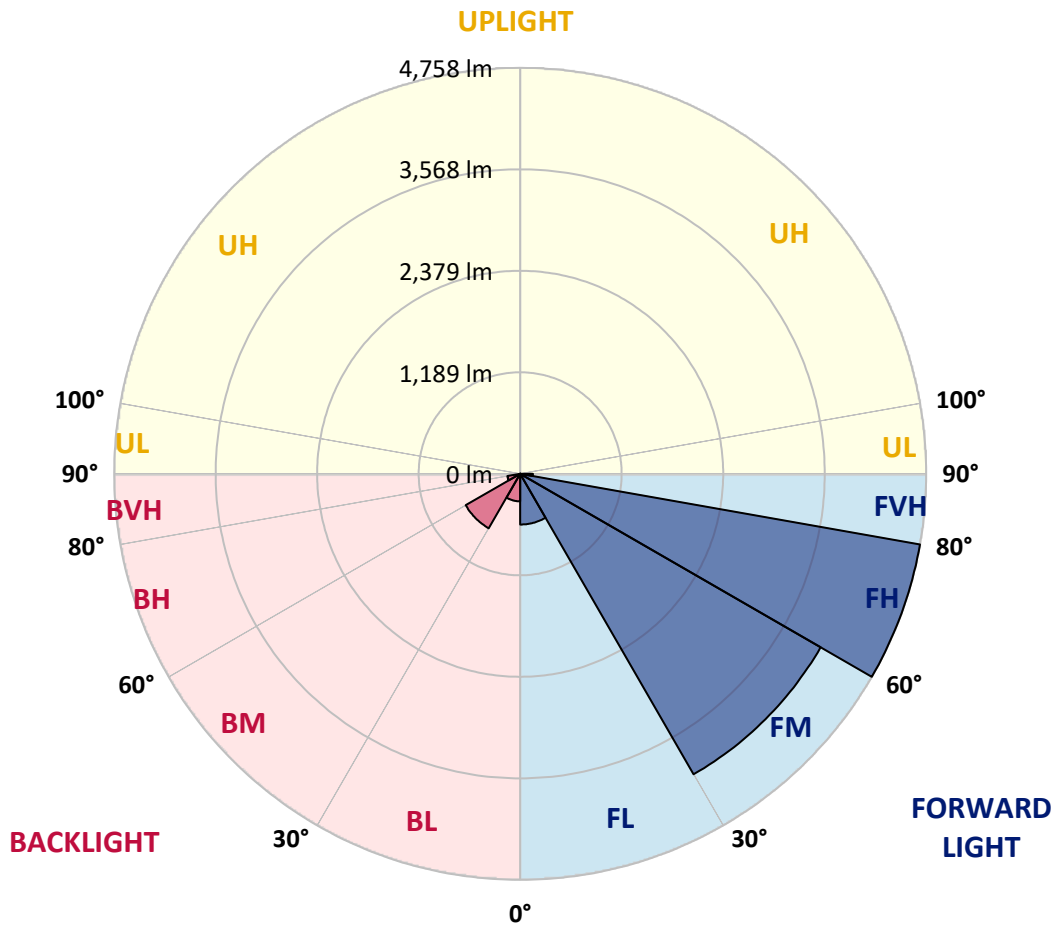
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	594.3	5.5			
FM (30°-60°)	4065.5	37.7			
FH (60°-80°)	4757.8	44.1			G2/5000
FVH (80°-90°)	150.0	1.4			G2/225
BL (0°-30°)	322.4	3.0	B1/500		
BM (30°-60°)	736.6	6.8	B1/1000		
BH (60°-80°)	152.3	1.4	B1/500		G1/500
BVH (80°-90°)	2.1	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5
2.5°	1493.0	1505.7	1508.0	1512.0	1512.0	1516.7	1524.6	1535.7	1553.8	1563.3
5°	1376.1	1385.6	1397.4	1406.9	1425.1	1427.4	1458.3	1488.3	1530.1	1561.7
7.5°	1258.4	1269.5	1285.3	1308.2	1331.9	1339.0	1385.6	1436.1	1502.5	1561.7
10°	1175.5	1176.2	1190.5	1213.4	1251.3	1260.0	1316.9	1388.7	1471.7	1552.3
12.5°	1128.8	1134.4	1140.7	1158.1	1194.4	1199.9	1260.8	1345.3	1440.9	1546.7
15°	1128.8	1132.8	1136.7	1145.4	1174.7	1179.4	1233.1	1317.6	1425.1	1549.1
17.5°	1140.7	1147.0	1143.9	1154.1	1184.9	1188.1	1235.5	1309.7	1424.3	1564.1
20°	1169.1	1173.9	1167.6	1173.9	1204.7	1211.0	1260.0	1324.8	1437.7	1590.2
22.5°	1214.2	1216.5	1201.5	1206.3	1237.9	1245.8	1302.6	1367.4	1470.1	1632.0
25°	1271.0	1275.8	1252.9	1258.4	1288.4	1297.9	1363.5	1431.4	1521.5	1689.7
27.5°	1336.6	1339.0	1319.2	1318.4	1357.1	1370.6	1436.9	1510.4	1590.2	1762.4
30°	1411.6	1418.8	1399.8	1396.6	1445.6	1456.7	1522.2	1607.6	1691.3	1871.4
32.5°	1470.9	1476.4	1465.4	1473.3	1523.0	1531.7	1625.7	1745.0	1850.1	2026.2
35°	1556.2	1559.4	1534.1	1548.3	1605.2	1627.3	1767.1	1937.8	2049.9	2220.6
37.5°	1865.1	1865.1	1757.6	1687.3	1741.8	1761.6	1960.7	2180.3	2296.4	2481.2
40°	2292.4	2285.3	2128.1	1984.4	1977.3	2016.0	2236.4	2486.0	2614.7	2794.1
42.5°	2748.2	2737.2	2523.1	2380.9	2357.2	2370.7	2554.7	2862.8	2993.9	3175.6
45°	3152.7	3149.5	2953.6	2762.5	2719.8	2762.5	2952.1	3303.6	3397.6	3588.8
47.5°	3491.6	3491.6	3348.6	3223.8	3201.7	3227.0	3490.0	3792.6	3783.9	4028.8
50°	3881.8	3878.7	3742.8	3689.1	3712.0	3747.5	4109.3	4307.6	4183.6	4460.9
52.5°	4155.2	4174.1	4127.5	4118.8	4235.7	4297.3	4738.1	4811.6	4541.4	4870.9
55°	4371.6	4393.7	4447.4	4508.3	4733.4	4814.0	5347.2	5289.5	4840.8	5226.3
57.5°	4678.1	4646.5	4729.5	4849.5	5213.7	5310.9	5937.3	5740.6	5081.8	5514.7
60°	5050.2	5054.9	5069.1	5220.8	5693.2	5818.0	6518.7	6167.2	5236.6	5691.6
62.5°	5497.3	5504.4	5533.6	5766.7	6337.0	6454.7	7138.0	6516.3	5307.7	5641.8
65°	5466.5	5496.5	5822.7	6619.8	7315.8	7431.9	7860.8	6761.2	5200.3	5186.8
67.5°	4979.9	5028.8	5574.7	7638.9	8791.4	8920.9	8734.5	6809.4	4736.6	4033.5
70°	4341.6	4359.0	5015.4	8555.2	10500.1	10631.2	9516.6	6279.3	3594.3	2249.8
72.5°	3390.5	3394.4	4164.6	8767.7	11427.5	11434.6	8902.8	4661.5	1933.0	864.2
75°	2422.0	2398.3	2789.3	7110.4	10053.7	10134.3	6674.3	2186.6	738.6	408.4
77.5°	1298.7	1324.8	1578.3	4216.8	6945.3	7082.7	3641.7	630.4	376.0	278.1
80°	401.3	423.4	647.0	1930.6	3934.0	4016.9	1350.0	280.4	262.3	198.3
82.5°	126.4	131.1	301.8	811.3	1632.8	1670.8	391.0	158.8	179.3	131.1
85°	36.3	37.1	134.3	302.6	403.7	411.6	109.8	61.6	102.7	81.4
87.5°	3.9	12.6	50.6	50.6	35.5	34.8	11.8	13.4	29.2	10.3
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°
1562.5	0°	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5
1569.6	2.5°	1565.7	1566.5	1556.2	1538.8	1519.9	1504.1	1484.3	1468.5	1457.5	1454.3
1583.9	5°	1576.7	1571.2	1542.0	1489.1	1425.9	1371.4	1310.5	1262.3	1230.7	1217.3
1598.9	7.5°	1593.3	1577.5	1513.6	1409.3	1288.4	1181.0	1072.0	987.4	933.7	906.9
1613.1	10°	1607.6	1576.0	1466.2	1293.9	1109.1	946.4	799.4	697.5	640.7	613.8
1629.7	12.5°	1621.0	1575.2	1404.5	1157.3	906.9	707.8	571.1	520.6	504.8	499.3
1656.5	15°	1646.3	1577.5	1327.1	1000.9	705.4	534.8	485.0	484.2	487.4	485.8
1697.6	17.5°	1681.0	1579.9	1239.4	835.0	544.3	471.6	469.2	476.3	481.1	478.7
1749.0	20°	1726.0	1589.4	1146.2	670.7	467.7	455.8	461.3	467.7	471.6	467.7
1817.7	22.5°	1789.2	1606.0	1044.3	538.7	443.2	446.3	451.1	458.2	462.1	456.6
1905.4	25°	1866.7	1632.0	944.0	468.4	431.3	435.3	442.4	450.3	455.0	449.5
2016.0	27.5°	1967.0	1673.9	851.6	452.6	419.5	421.8	432.1	444.0	450.3	443.2
2173.2	30°	2112.3	1742.6	771.8	459.8	412.4	406.8	421.0	437.6	444.7	438.4
2387.2	32.5°	2305.1	1839.8	722.8	470.8	409.2	389.4	402.9	424.2	436.1	432.1
2666.9	35°	2557.9	1987.5	703.8	483.5	406.8	371.3	380.8	403.7	424.2	428.2
3019.2	37.5°	2864.4	2192.9	709.4	489.0	399.7	356.3	361.0	380.8	407.6	420.3
3415.8	40°	3212.7	2432.3	741.0	483.5	391.8	343.6	344.4	359.4	383.1	402.1
3842.3	42.5°	3572.2	2711.9	799.4	462.9	384.7	332.6	330.2	340.5	356.3	369.7
4268.1	45°	3914.2	2999.5	857.1	434.5	376.0	321.5	316.0	319.9	323.1	328.6
4682.8	47.5°	4212.8	3201.7	840.5	408.4	364.2	308.9	299.4	297.8	288.3	287.5
5053.3	50°	4419.0	3245.9	746.5	382.3	346.8	294.7	279.6	270.2	253.6	245.7
5330.6	52.5°	4484.6	3071.3	609.8	356.3	318.4	275.7	254.4	239.4	218.8	211.7
5490.2	55°	4397.7	2729.3	487.4	324.7	278.9	250.4	226.7	207.0	190.4	181.7
5507.6	57.5°	4185.2	2294.0	385.5	287.5	237.0	222.0	198.3	178.5	164.3	155.6
5314.8	60°	3832.9	1821.6	304.9	243.3	202.2	191.2	166.7	154.0	141.4	131.1
4817.1	62.5°	3298.1	1300.3	239.4	192.7	169.1	156.4	142.2	132.7	117.7	103.5
3922.1	65°	2573.7	795.5	184.8	141.4	135.9	129.6	120.9	112.2	94.0	79.8
2558.7	67.5°	1623.4	376.8	131.9	106.6	107.4	104.3	100.3	93.2	79.8	67.1
1146.2	70°	714.9	182.5	86.9	81.4	79.8	79.8	82.9	80.6	67.9	56.1
398.1	72.5°	243.3	98.0	64.8	61.6	57.7	56.9	69.5	67.1	54.5	43.4
198.3	75°	127.2	65.6	47.4	44.2	34.8	41.9	55.3	52.1	38.7	28.4
131.1	77.5°	82.9	46.6	32.4	28.4	19.7	27.6	41.1	36.3	22.9	14.2
86.1	80°	52.1	30.8	19.0	13.4	9.5	15.0	22.1	15.8	8.7	3.2
50.6	82.5°	27.6	15.8	7.1	4.7	3.9	4.7	5.5	3.9	1.6	0.0
26.1	85°	11.1	5.5	2.4	1.6	0.8	0.0	1.6	0.8	0.0	0.0
4.7	87.5°	3.9	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>
1562.5
1459.8
1222.1
910.8
614.6
497.7
485.0
477.9
466.9
455.8
448.7
443.2
437.6
432.1
428.2
423.4
408.4
375.2
331.8
286.8
246.5
210.9
181.7
154.0
128.8
101.1
77.4
65.6
53.7
41.1
26.1
12.6
2.4
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