

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: P946718

Luminaire Tested: **GALN-SB2B-740-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946718  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2B-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

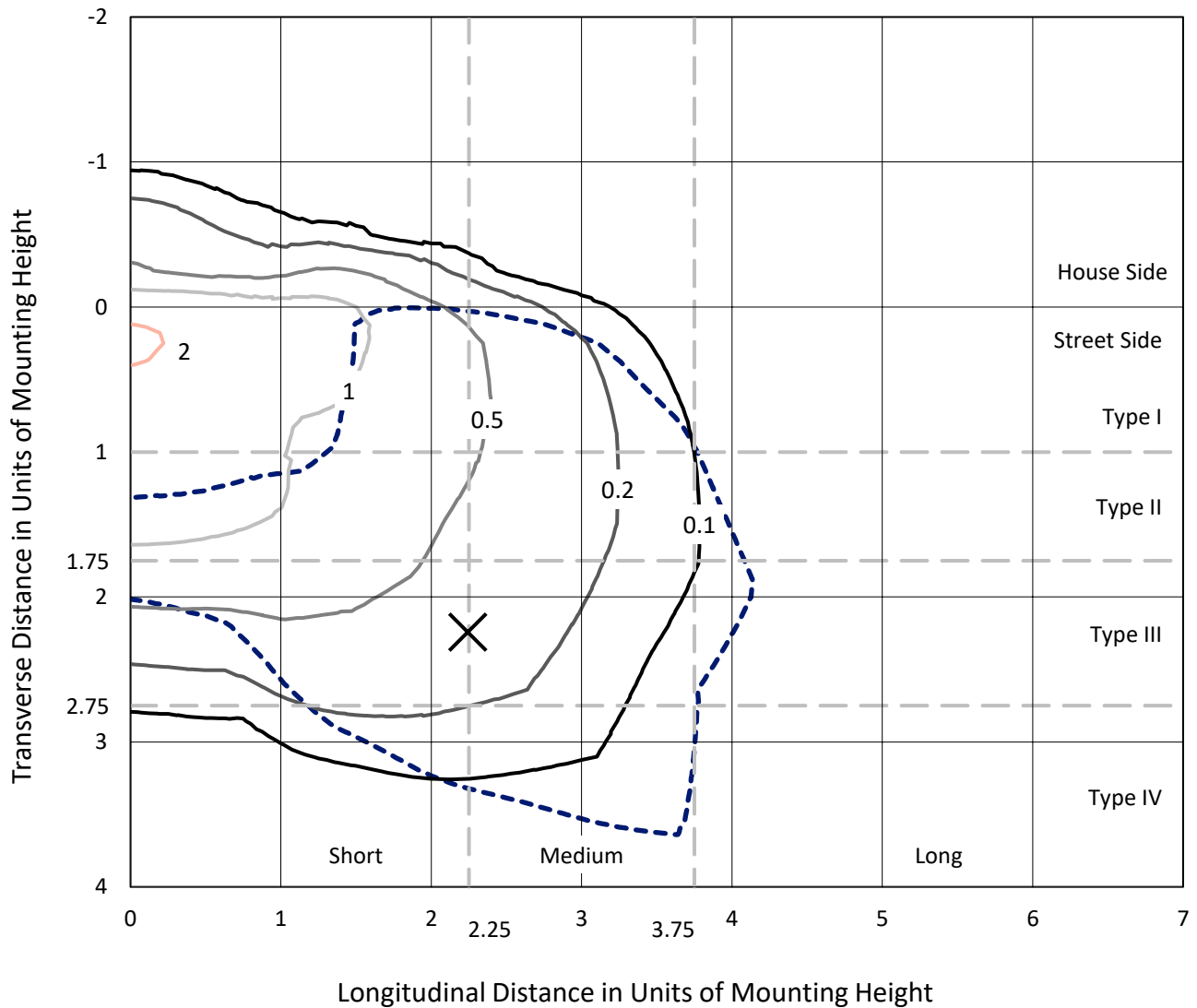
Lumens per Lamp: N/A  
Luminaire Lumens: 9177 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

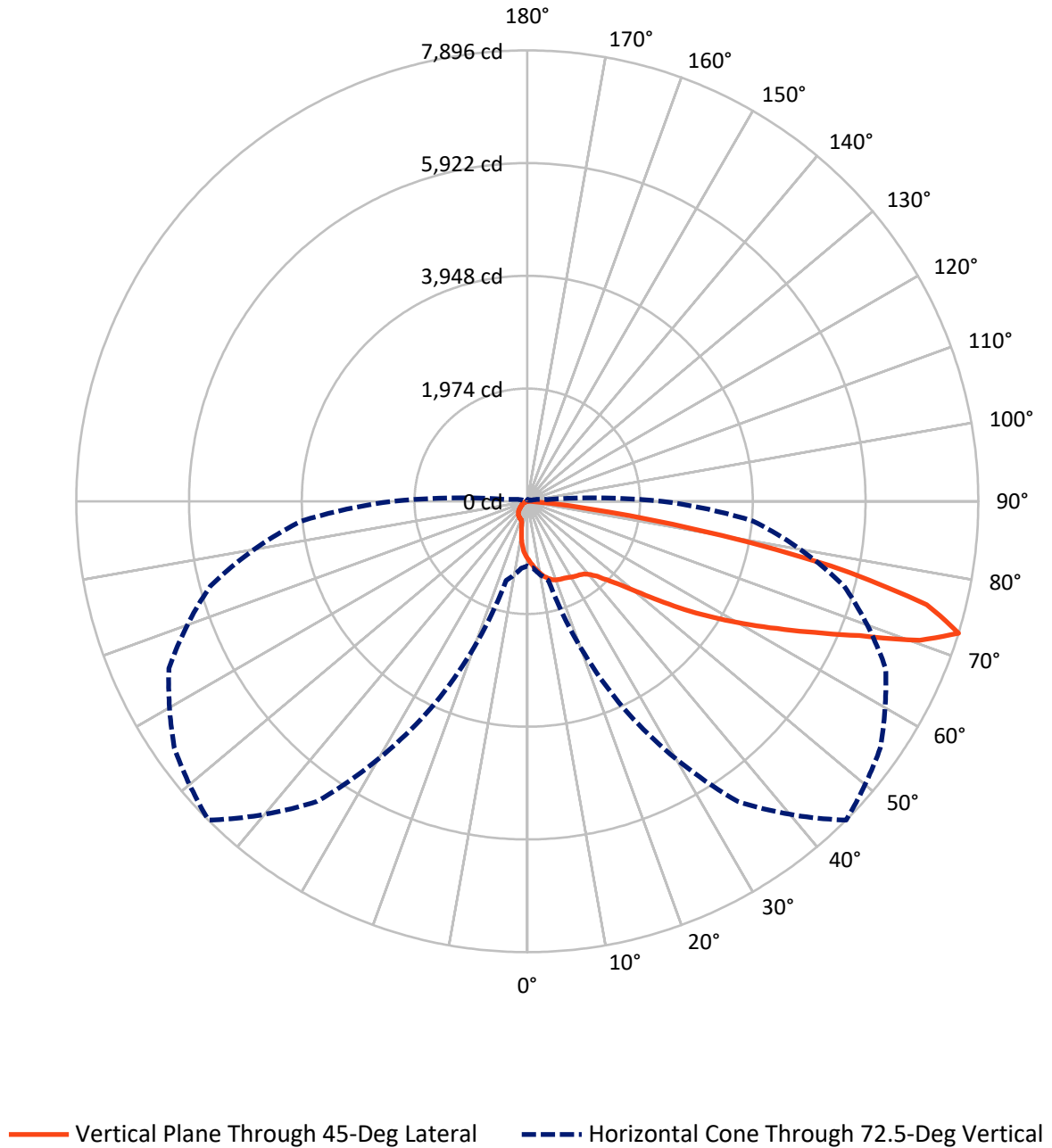
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	964.2	0.0	964.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	8212.7	0.0	8212.7
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	9177.0	0.0	9177.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.7	1.0
10°-20°	276.8	3.0
20°-30°	454.6	5.0
30°-40°	644.8	7.0
40°-50°	1065.7	11.6
50°-60°	1914.4	20.9
60°-70°	2658.3	29.0
70°-80°	1928.2	21.0
80°-90°	139.4	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°	9177.0	100.0
0°-180°	9177.0	100.0

**Coefficient of Utilization**



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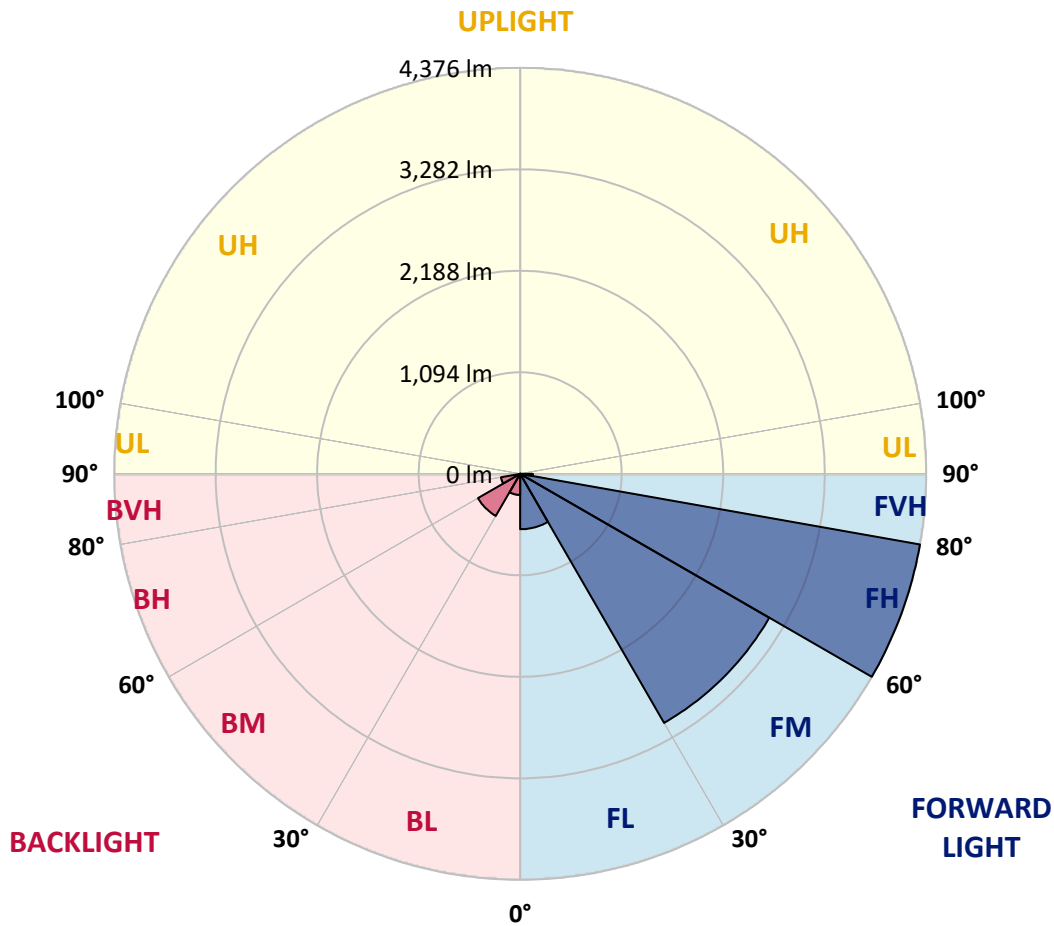
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	597.8	6.5			
FM (30°-60°)	3100.5	33.8			
FH (60°-80°)	4376.2	47.7			G2/5000
FVH (80°-90°)	138.2	1.5			G2/225
BL (0°-30°)	228.4	2.5	B1/500		
BM (30°-60°)	524.4	5.7	B1/1000		
BH (60°-80°)	210.3	2.3	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1005.4	1005.4	1005.4	1005.4	1005.4	1005.4	1005.4	1005.4	1005.4	1005.4
2.5°	1098.1	1099.9	1098.7	1091.2	1078.6	1071.8	1068.0	1055.5	1047.3	1032.9
5°	1198.9	1206.4	1202.0	1187.0	1163.2	1146.3	1141.3	1115.6	1092.4	1065.5
7.5°	1306.0	1309.8	1301.6	1282.2	1250.3	1221.5	1217.1	1181.4	1144.4	1103.1
10°	1398.7	1403.1	1390.6	1362.4	1326.1	1290.4	1284.1	1244.6	1200.8	1150.1
12.5°	1476.4	1480.8	1464.5	1430.7	1390.6	1353.6	1347.4	1306.0	1257.8	1201.4
15°	1535.3	1543.4	1521.5	1485.2	1442.0	1405.0	1401.9	1361.2	1314.2	1251.5
17.5°	1569.7	1577.9	1557.2	1513.4	1476.4	1445.1	1441.3	1407.5	1363.7	1303.5
20°	1575.4	1582.9	1561.0	1522.8	1492.1	1467.0	1465.1	1440.7	1408.8	1351.1
22.5°	1558.5	1567.9	1547.8	1517.1	1495.8	1482.7	1480.2	1466.4	1448.2	1399.4
25°	1540.9	1548.4	1533.4	1506.5	1495.2	1493.9	1495.8	1493.3	1489.6	1448.2
27.5°	1539.7	1547.8	1530.9	1505.2	1499.0	1512.1	1514.0	1525.9	1529.0	1492.7
30°	1550.3	1556.0	1539.7	1512.7	1509.6	1539.7	1540.3	1561.6	1566.6	1530.3
32.5°	1573.5	1579.8	1563.5	1524.0	1519.6	1561.6	1563.5	1591.7	1599.8	1570.4
35°	1628.0	1635.5	1616.7	1555.3	1539.7	1582.3	1587.9	1621.1	1637.4	1613.0
37.5°	1763.9	1742.0	1716.3	1618.6	1585.4	1614.8	1624.2	1663.1	1691.9	1663.7
40°	2101.5	2032.6	1952.5	1726.3	1665.6	1684.4	1691.9	1730.7	1770.2	1742.6
42.5°	2608.3	2526.9	2397.8	1974.4	1786.5	1795.9	1801.5	1835.3	1891.1	1869.2
45°	3059.9	3030.5	2898.9	2397.8	2012.6	1966.2	1973.1	1990.7	2072.7	2064.6
47.5°	3406.9	3390.0	3288.6	2883.9	2394.7	2174.8	2194.3	2202.4	2320.8	2349.6
50°	3673.8	3667.5	3576.7	3316.1	2893.9	2482.4	2489.3	2471.7	2649.0	2720.4
52.5°	3925.6	3946.9	3879.9	3717.6	3427.0	2885.2	2883.9	2801.2	3040.5	3148.2
55°	4153.0	4160.5	4167.4	4127.3	3963.2	3343.7	3331.8	3196.5	3494.6	3606.1
57.5°	4366.6	4369.7	4431.1	4513.2	4521.3	3836.0	3814.1	3651.9	3990.7	4070.3
60°	4510.0	4524.4	4654.1	4882.1	4981.7	4344.0	4332.1	4166.8	4495.6	4532.6
62.5°	4303.3	4391.0	4718.0	5170.2	5416.4	4907.2	4901.5	4746.2	5026.8	4996.7
65°	3483.4	3631.8	4206.9	5365.1	5843.0	5536.1	5544.2	5378.8	5572.4	5474.7
67.5°	2436.7	2593.3	3273.5	5380.7	6319.7	6274.6	6321.6	6062.2	6151.8	5932.6
70°	1685.0	1765.8	2208.7	5043.7	6691.1	7291.8	7290.6	6901.6	6728.1	6141.2
72.5°	1133.1	1175.1	1434.4	4001.4	6418.0	7896.3	7860.0	7543.0	6922.3	5743.4
75°	477.9	508.6	664.0	2248.7	5077.5	7224.2	7125.8	6666.1	6150.5	4522.6
77.5°	151.6	164.7	261.8	804.9	2796.8	5430.2	5326.2	4163.0	4122.3	2268.8
80°	72.0	83.9	147.2	323.2	1100.6	2953.4	2939.0	1888.6	1773.3	612.6
82.5°	31.3	37.0	81.4	172.9	492.3	1053.6	1074.9	642.7	531.8	232.4
85°	10.0	13.2	37.6	79.6	208.0	261.8	258.7	152.8	214.2	126.5
87.5°	0.0	0.0	12.5	18.2	21.3	15.0	16.9	13.2	59.5	35.1
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°
1005.4	0°	1005.4	1005.4	1005.4	1005.4	1005.4	1005.4	1005.4	1005.4	1005.4	1005.4
1017.9	2.5°	1010.4	1000.3	982.8	966.5	952.1	937.7	928.9	916.4	915.2	915.2
1034.2	5°	1017.3	1001.0	969.7	936.5	898.2	861.9	825.6	790.5	779.2	771.1
1060.5	7.5°	1037.3	1011.6	962.1	898.9	826.2	746.7	690.9	630.8	607.6	595.1
1095.6	10°	1066.1	1031.0	955.9	845.0	727.2	618.9	539.3	474.2	449.1	438.5
1133.8	12.5°	1098.1	1054.8	944.6	778.0	618.9	489.2	411.5	381.5	377.7	377.7
1179.5	15°	1136.3	1083.7	925.2	699.1	505.5	387.1	359.5	360.8	364.6	367.1
1224.0	17.5°	1175.7	1114.4	894.5	610.7	405.3	348.3	348.9	350.8	353.9	356.4
1272.2	20°	1218.3	1145.0	853.8	516.8	347.6	337.0	338.9	340.8	343.3	344.5
1317.3	22.5°	1264.1	1173.9	805.5	424.7	328.2	327.6	328.2	330.1	333.2	333.2
1369.9	25°	1312.9	1205.8	750.4	357.7	318.2	318.2	319.5	320.7	323.2	323.2
1420.7	27.5°	1363.0	1235.2	692.2	322.6	309.4	308.8	308.8	310.7	311.9	312.6
1470.8	30°	1418.2	1269.7	633.9	315.1	302.5	299.4	297.5	298.8	300.0	300.7
1523.4	32.5°	1474.5	1302.9	581.9	318.2	295.7	290.0	283.8	282.5	282.5	285.0
1577.9	35°	1537.2	1339.2	541.8	328.9	291.9	276.2	266.2	260.6	261.2	265.0
1643.0	37.5°	1612.3	1383.1	512.4	338.3	289.4	260.6	244.3	237.4	233.0	237.4
1732.6	40°	1710.7	1447.6	491.1	345.8	286.3	242.4	220.5	209.2	201.1	203.6
1871.7	42.5°	1855.4	1549.1	482.9	346.4	279.4	221.1	196.1	181.0	169.1	169.8
2080.9	45°	2058.3	1709.4	524.9	338.3	264.3	197.9	170.4	150.3	142.8	140.9
2393.4	47.5°	2336.4	1943.1	622.0	321.3	242.4	175.4	145.3	128.4	122.8	119.6
2803.7	50°	2709.1	2243.1	729.7	302.5	220.5	154.1	124.7	114.0	110.2	107.1
3290.4	52.5°	3141.4	2547.5	818.1	283.8	198.6	135.3	111.5	105.2	102.1	99.6
3760.2	55°	3537.9	2757.4	813.1	263.7	177.3	120.3	102.1	98.3	94.6	92.1
4164.9	57.5°	3784.7	2786.8	670.2	241.8	152.8	108.4	93.3	90.8	86.4	83.3
4515.0	60°	3898.0	2618.9	469.8	213.0	128.4	97.1	83.9	82.7	77.0	72.7
4846.4	62.5°	3918.7	2307.0	313.2	177.3	107.1	86.4	74.5	72.7	65.1	57.6
5115.7	65°	3834.8	1861.0	216.7	138.4	91.5	75.2	63.9	60.1	52.0	44.5
5179.6	67.5°	3569.2	1306.7	151.0	99.6	77.7	59.5	50.7	49.5	43.2	37.0
4853.9	70°	3082.5	744.8	100.8	74.5	61.4	40.7	40.1	41.3	35.1	30.1
3965.7	72.5°	2363.4	340.8	62.6	54.5	42.0	27.6	31.9	32.6	26.9	22.6
2474.3	75°	1391.2	145.9	39.5	35.1	21.3	18.2	23.2	23.8	18.2	14.4
904.5	77.5°	473.6	55.1	25.1	20.7	10.6	10.0	15.0	15.0	10.0	5.6
181.7	80°	107.7	20.7	12.5	8.1	5.0	4.4	5.0	4.4	2.5	0.6
55.7	82.5°	30.7	8.1	5.0	3.1	1.9	1.9	0.6	0.0	0.0	0.0
19.4	85°	8.8	3.8	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
6.9	87.5°	3.8	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>
1005.4
918.3
774.8
597.0
438.5
377.7
367.1
356.4
345.1
334.5
323.8
313.2
301.9
286.9
266.8
236.1
202.3
167.2
138.4
117.8
106.5
99.0
90.8
82.7
71.4
53.9
42.0
35.1
27.6
20.0
12.5
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