

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: P947096

Luminaire Tested: **GALN-SB2C-750-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947096
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-SB2C-750-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 615mA 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: 12205 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

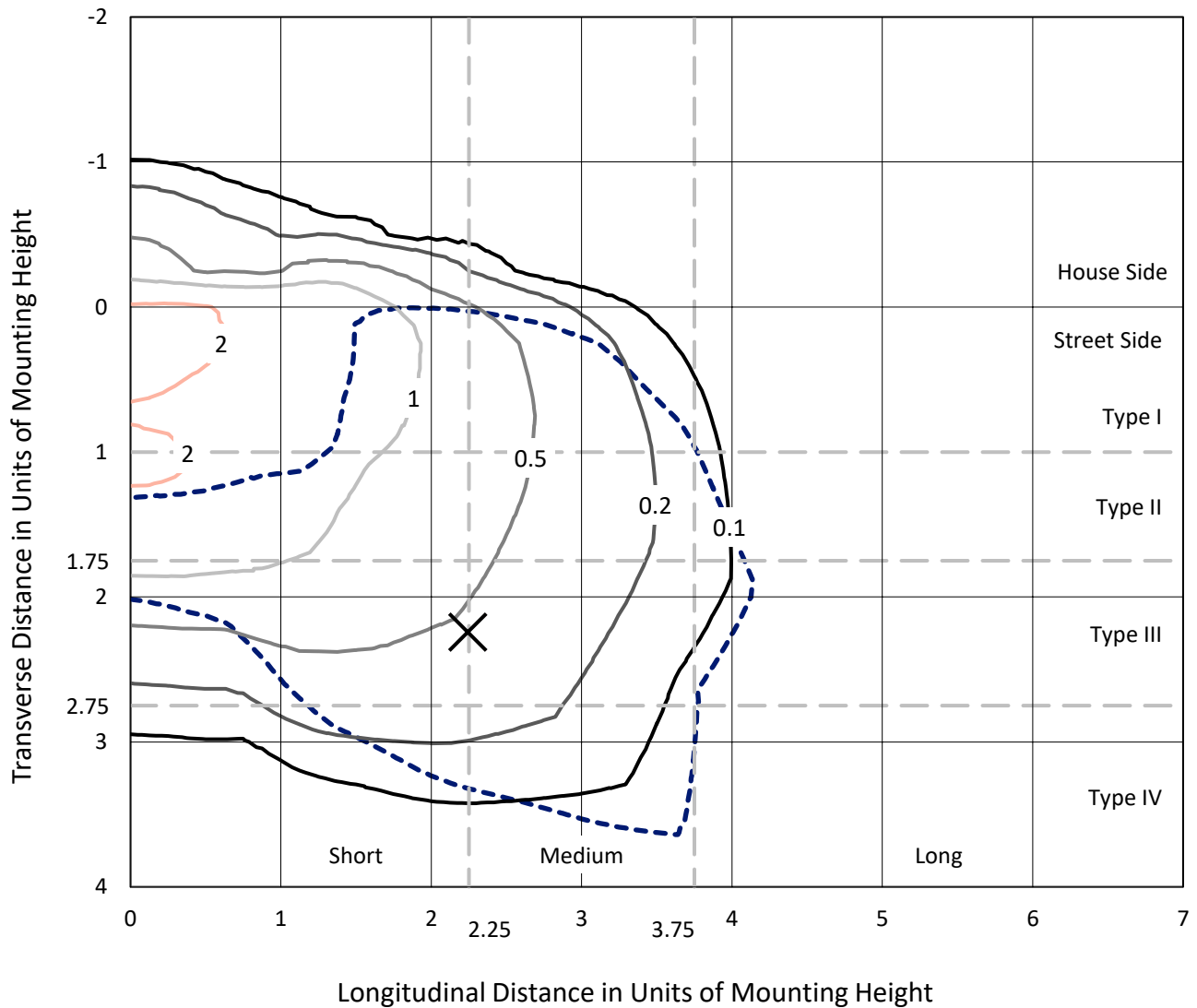
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

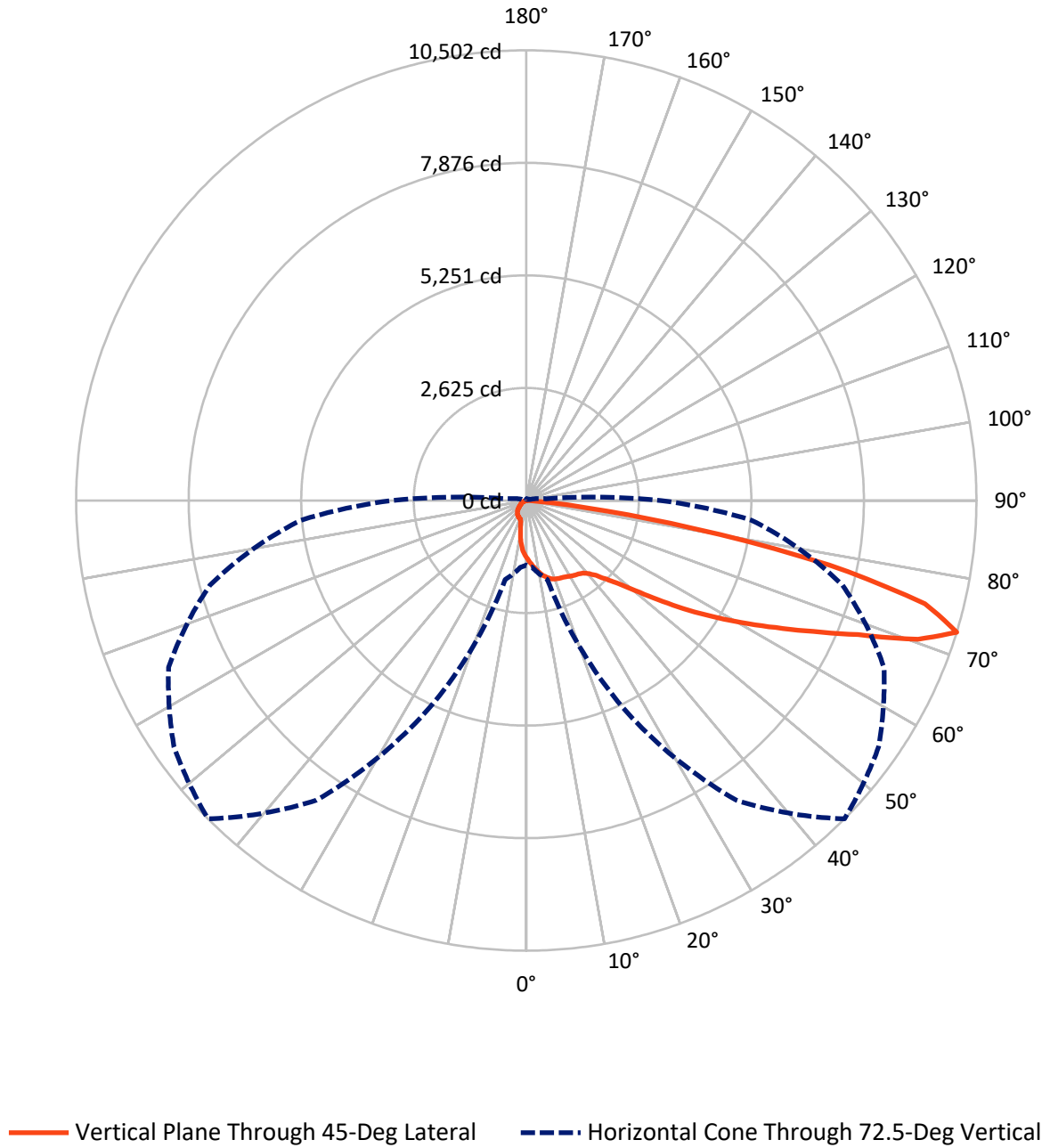
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	1282.4	0.0	1282.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	10922.6	0.0	10922.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	12205.0	0.0	12205.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	1.0
10°-20°	368.2	3.0
20°-30°	604.6	5.0
30°-40°	857.5	7.0
40°-50°	1417.3	11.6
50°-60°	2546.1	20.9
60°-70°	3535.4	29.0
70°-80°	2564.5	21.0
80°-90°	185.4	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°	12205.0	100.0
0°-180°	12205.0	100.0

Coefficient of Utilization



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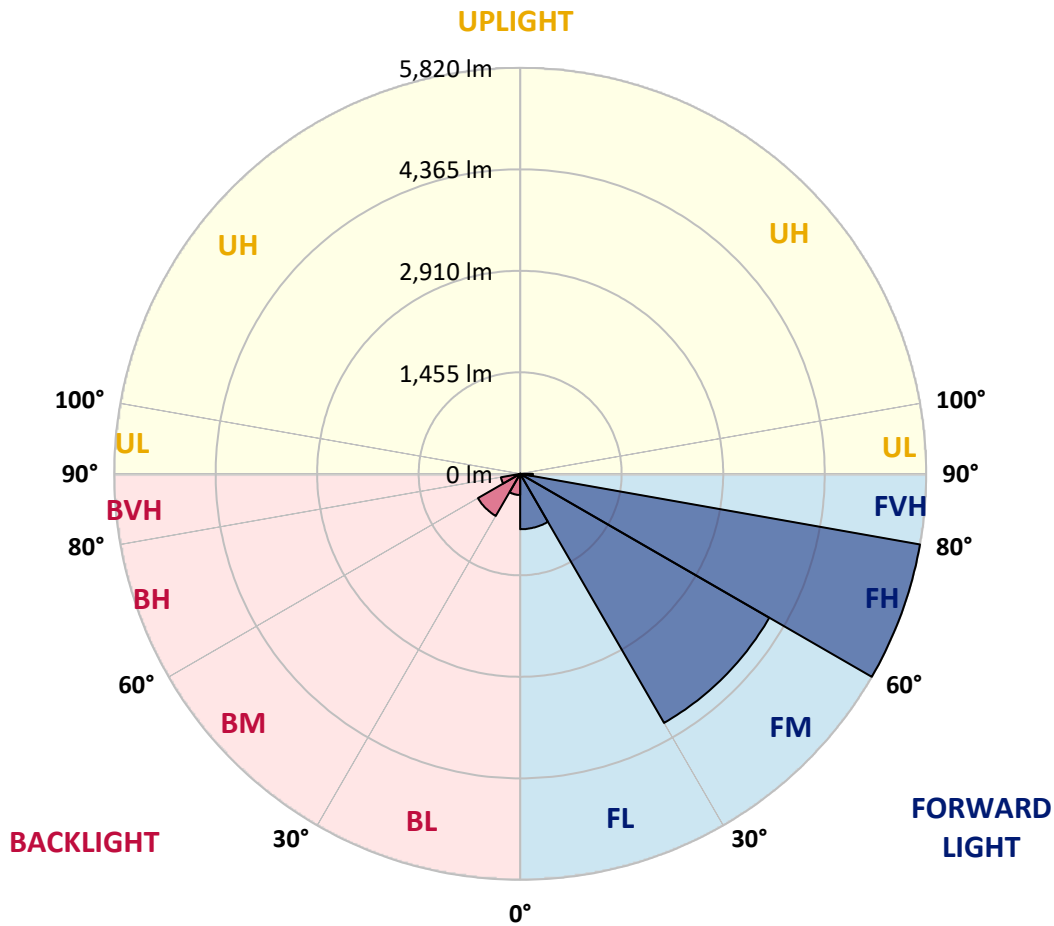
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	795.0	6.5			
FM (30°-60°)	4123.5	33.8			
FH (60°-80°)	5820.2	47.7			G3/7500
FVH (80°-90°)	183.8	1.5			G2/225
BL (0°-30°)	303.7	2.5	B1/500		
BM (30°-60°)	697.5	5.7	B1/1000		
BH (60°-80°)	279.7	2.3	B1/500		G1/500
BVH (80°-90°)	1.6	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°	35°	45°	46°	55°	65°	75°
0°	1337.1	1337.1	1337.1	1337.1	1337.1	1337.1	1337.1	1337.1	1337.1	1337.1
2.5°	1460.4	1462.9	1461.2	1451.2	1434.6	1425.4	1420.4	1403.7	1392.9	1373.7
5°	1594.5	1604.5	1598.7	1578.7	1547.0	1524.5	1517.9	1483.7	1452.9	1417.1
7.5°	1737.0	1742.0	1731.1	1705.3	1662.8	1624.5	1618.7	1571.2	1522.0	1467.0
10°	1860.3	1866.1	1849.4	1811.9	1763.6	1716.1	1707.8	1655.3	1597.0	1529.5
12.5°	1963.6	1969.4	1947.7	1902.7	1849.4	1800.3	1791.9	1737.0	1672.8	1597.8
15°	2041.9	2052.7	2023.5	1975.2	1917.7	1868.6	1864.4	1810.3	1747.8	1664.5
17.5°	2087.7	2098.5	2071.0	2012.7	1963.6	1921.9	1916.9	1871.9	1813.6	1733.6
20°	2095.2	2105.2	2076.0	2025.2	1984.4	1951.1	1948.6	1916.1	1873.6	1796.9
22.5°	2072.7	2085.2	2058.5	2017.7	1989.4	1971.9	1968.6	1950.2	1926.1	1861.1
25°	2049.4	2059.4	2039.4	2003.5	1988.5	1986.9	1989.4	1986.0	1981.0	1926.1
27.5°	2047.7	2058.5	2036.0	2001.9	1993.5	2011.0	2013.5	2029.4	2033.5	1985.2
30°	2061.9	2069.4	2047.7	2011.9	2007.7	2047.7	2048.5	2076.9	2083.5	2035.2
32.5°	2092.7	2101.0	2079.4	2026.9	2021.0	2076.9	2079.4	2116.8	2127.7	2088.5
35°	2165.2	2175.2	2150.2	2068.5	2047.7	2104.3	2111.8	2156.0	2177.7	2145.2
37.5°	2345.9	2316.8	2282.6	2152.7	2108.5	2147.7	2160.2	2211.8	2250.1	2212.6
40°	2795.0	2703.3	2596.7	2296.0	2215.1	2240.1	2250.1	2301.8	2354.3	2317.6
42.5°	3468.9	3360.6	3189.0	2625.8	2375.9	2388.4	2395.9	2440.9	2515.1	2485.9
45°	4069.6	4030.4	3855.5	3189.0	2676.7	2615.0	2624.2	2647.5	2756.6	2745.8
47.5°	4531.1	4508.6	4373.6	3835.5	3184.8	2892.4	2918.3	2929.1	3086.5	3124.9
50°	4886.0	4877.6	4756.9	4410.3	3848.8	3301.5	3310.6	3287.3	3523.1	3618.0
52.5°	5220.9	5249.2	5160.1	4944.3	4557.7	3837.1	3835.5	3725.5	4043.7	4187.0
55°	5523.3	5533.3	5542.4	5489.1	5270.9	4446.9	4431.1	4251.2	4647.7	4796.0
57.5°	5807.4	5811.5	5893.2	6002.3	6013.1	5101.7	5072.6	4856.8	5307.5	5413.3
60°	5998.1	6017.3	6189.7	6493.0	6625.4	5777.4	5761.5	5541.6	5979.0	6028.1
62.5°	5723.2	5839.8	6274.7	6876.2	7203.6	6526.3	6518.8	6312.2	6685.4	6645.4
65°	4632.7	4830.2	5594.9	7135.3	7770.9	7362.7	7373.5	7153.6	7411.0	7281.1
67.5°	3240.7	3448.9	4353.6	7156.1	8404.9	8344.9	8407.4	8062.5	8181.6	7890.0
70°	2241.0	2348.4	2937.4	6707.9	8898.9	9697.8	9696.1	9178.8	8948.0	8167.5
72.5°	1507.0	1562.8	1907.7	5321.7	8535.7	10501.7	10453.4	10031.9	9206.3	7638.5
75°	635.6	676.5	883.1	2990.7	6752.9	9607.8	9477.0	8865.6	8180.0	6014.8
77.5°	201.6	219.1	348.2	1070.5	3719.7	7221.9	7083.6	5536.6	5482.5	3017.4
80°	95.8	111.6	195.8	429.9	1463.7	3927.9	3908.8	2511.7	2358.4	814.7
82.5°	41.7	49.2	108.3	229.9	654.8	1401.2	1429.6	854.7	707.3	309.1
85°	13.3	17.5	50.0	105.8	276.6	348.2	344.1	203.3	284.9	168.3
87.5°	0.0	0.0	16.7	24.2	28.3	20.0	22.5	17.5	79.1	46.7
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°
1337.1	0°	1337.1	1337.1	1337.1	1337.1	1337.1	1337.1	1337.1	1337.1	1337.1	1337.1
1353.7	2.5°	1343.7	1330.4	1307.1	1285.4	1266.3	1247.1	1235.4	1218.8	1217.1	1217.1
1375.4	5°	1352.9	1331.3	1289.6	1245.4	1194.6	1146.3	1098.0	1051.3	1036.3	1025.5
1410.4	7.5°	1379.6	1345.4	1279.6	1195.5	1098.8	993.0	918.9	838.9	808.1	791.4
1457.0	10°	1417.9	1371.2	1271.3	1123.8	967.2	823.1	717.3	630.6	597.3	583.2
1507.9	12.5°	1460.4	1402.9	1256.3	1034.7	823.1	650.6	547.3	507.3	502.3	502.3
1568.7	15°	1511.2	1441.2	1230.5	929.7	672.3	514.8	478.2	479.9	484.8	488.2
1627.8	17.5°	1563.7	1482.0	1189.6	812.2	539.0	463.2	464.0	466.5	470.7	474.0
1692.0	20°	1620.3	1522.9	1135.5	687.3	462.4	448.2	450.7	453.2	456.5	458.2
1752.0	22.5°	1681.1	1561.2	1071.3	564.8	436.5	435.7	436.5	439.0	443.2	443.2
1821.9	25°	1746.1	1603.7	998.0	475.7	423.2	423.2	424.9	426.5	429.9	429.9
1889.4	27.5°	1812.8	1642.8	920.5	429.0	411.5	410.7	410.7	413.2	414.9	415.7
1956.1	30°	1886.1	1688.6	843.1	419.0	402.4	398.2	395.7	397.4	399.0	399.9
2026.0	32.5°	1961.1	1732.8	773.9	423.2	393.2	385.7	377.4	375.7	375.7	379.0
2098.5	35°	2044.4	1781.1	720.6	437.4	388.2	367.4	354.1	346.6	347.4	352.4
2185.2	37.5°	2144.3	1839.4	681.5	449.9	384.9	346.6	324.9	315.7	309.9	315.7
2304.3	40°	2275.1	1925.2	653.1	459.9	380.7	322.4	293.2	278.2	267.4	270.7
2489.2	42.5°	2467.6	2060.2	642.3	460.7	371.6	294.1	260.8	240.8	224.9	225.8
2767.5	45°	2737.5	2273.5	698.1	449.9	351.6	263.3	226.6	199.9	189.9	187.4
3183.2	47.5°	3107.4	2584.2	827.2	427.4	322.4	233.3	193.3	170.8	163.3	159.1
3728.8	50°	3603.0	2983.2	970.5	402.4	293.2	204.9	165.8	151.6	146.6	142.5
4376.1	52.5°	4177.9	3388.1	1088.0	377.4	264.1	179.9	148.3	140.0	135.8	132.5
5000.9	55°	4705.2	3667.2	1081.3	350.7	235.8	160.0	135.8	130.8	125.8	122.5
5539.1	57.5°	5033.4	3706.3	891.4	321.6	203.3	144.1	124.1	120.8	115.0	110.8
6004.8	60°	5184.2	3483.1	624.8	283.2	170.8	129.1	111.6	110.0	102.5	96.6
6445.5	62.5°	5211.7	3068.2	416.5	235.8	142.5	115.0	99.1	96.6	86.6	76.6
6803.7	65°	5100.1	2475.1	288.2	184.1	121.6	100.0	85.0	80.0	69.1	59.1
6888.7	67.5°	4746.9	1737.8	200.8	132.5	103.3	79.1	67.5	65.8	57.5	49.2
6455.5	70°	4099.6	990.5	134.1	99.1	81.6	54.1	53.3	55.0	46.7	40.0
5274.2	72.5°	3143.2	453.2	83.3	72.5	55.8	36.7	42.5	43.3	35.8	30.0
3290.6	75°	1850.3	194.1	52.5	46.7	28.3	24.2	30.8	31.7	24.2	19.2
1203.0	77.5°	629.8	73.3	33.3	27.5	14.2	13.3	20.0	20.0	13.3	7.5
241.6	80°	143.3	27.5	16.7	10.8	6.7	5.8	6.7	5.8	3.3	0.8
74.1	82.5°	40.8	10.8	6.7	4.2	2.5	2.5	0.8	0.0	0.0	0.0
25.8	85°	11.7	5.0	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
9.2	87.5°	5.0	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>
1337.1
1221.3
1030.5
793.9
583.2
502.3
488.2
474.0
459.0
444.9
430.7
416.5
401.5
381.5
354.9
314.1
269.1
222.4
184.1
156.6
141.6
131.6
120.8
110.0
95.0
71.6
55.8
46.7
36.7
26.7
16.7
5.8
0.0
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