

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: P947663

Luminaire Tested: **GALN-SB2D-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947663
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-SB2D-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 900mA 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: 11359 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

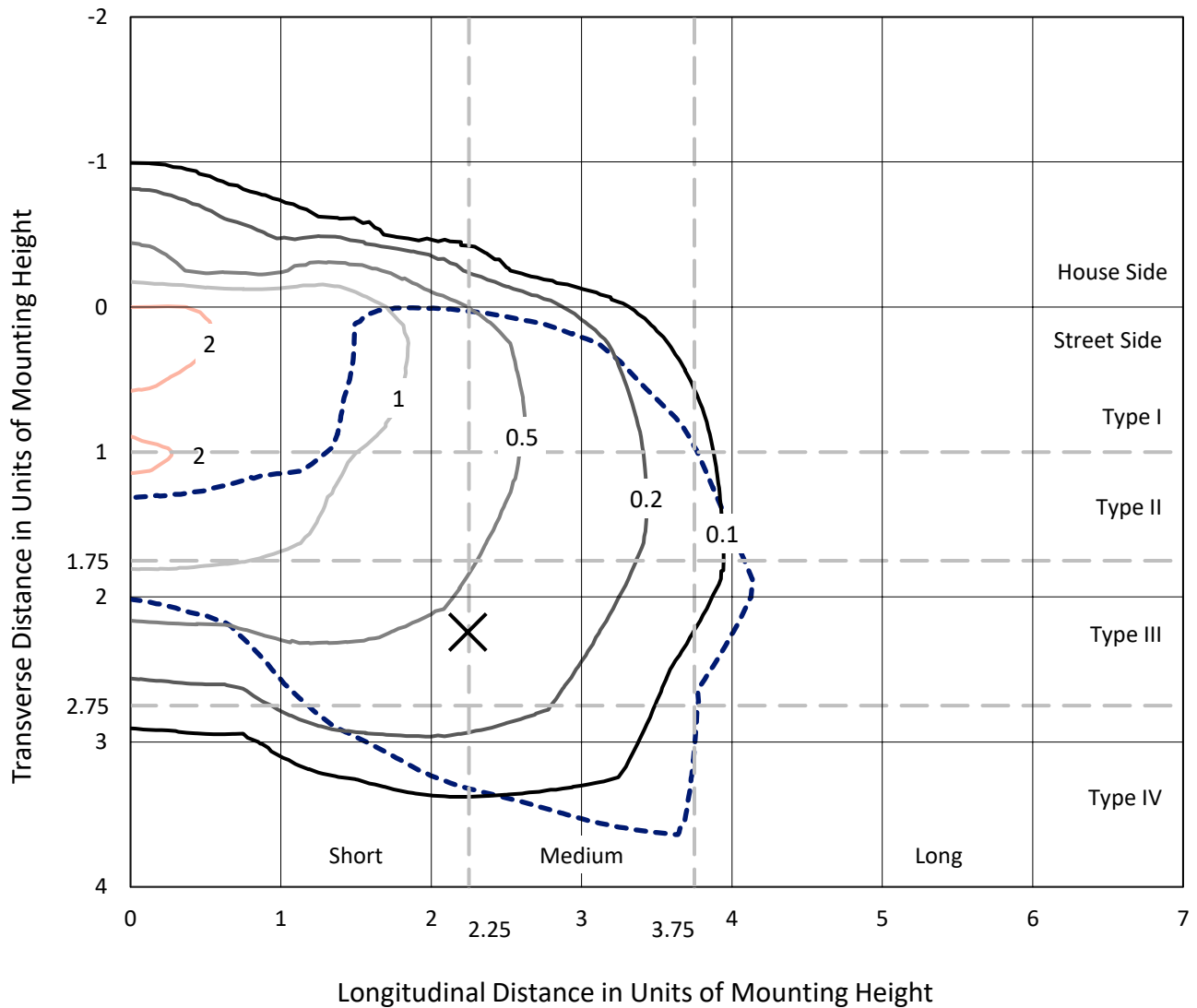
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947663
 CATALOG NUMBER: GALN-SB2D-940-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

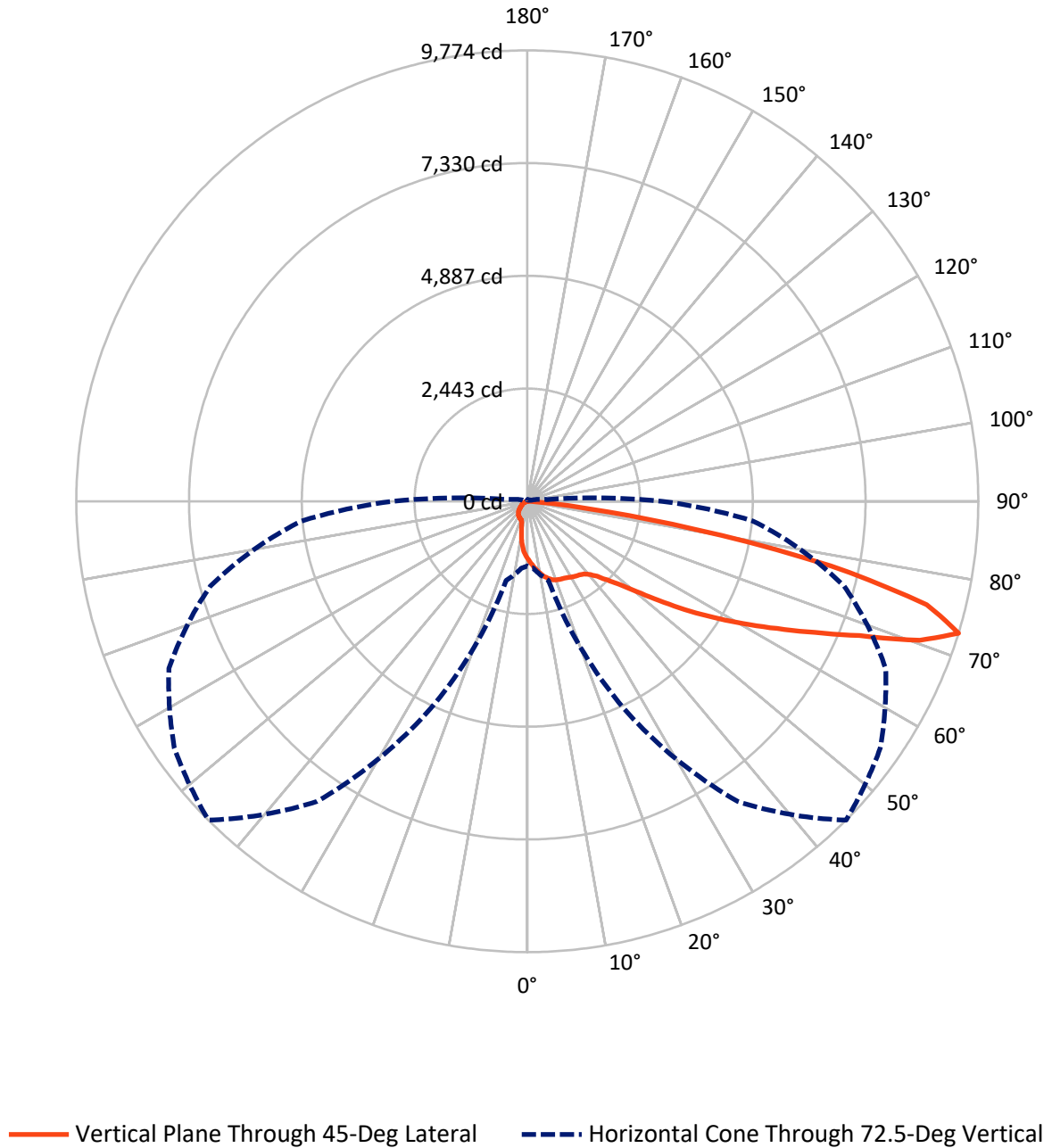
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P947663
CATALOG NUMBER: GALN-SB2D-940-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1193.5	0.0	1193.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	10165.5	0.0	10165.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	11359.0	0.0	11359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.2	1.0
10°-20°	342.7	3.0
20°-30°	562.7	5.0
30°-40°	798.1	7.0
40°-50°	1319.1	11.6
50°-60°	2369.6	20.9
60°-70°	3290.3	29.0
70°-80°	2386.7	21.0
80°-90°	172.6	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°	11359.0	100.0
0°-180°	11359.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947663

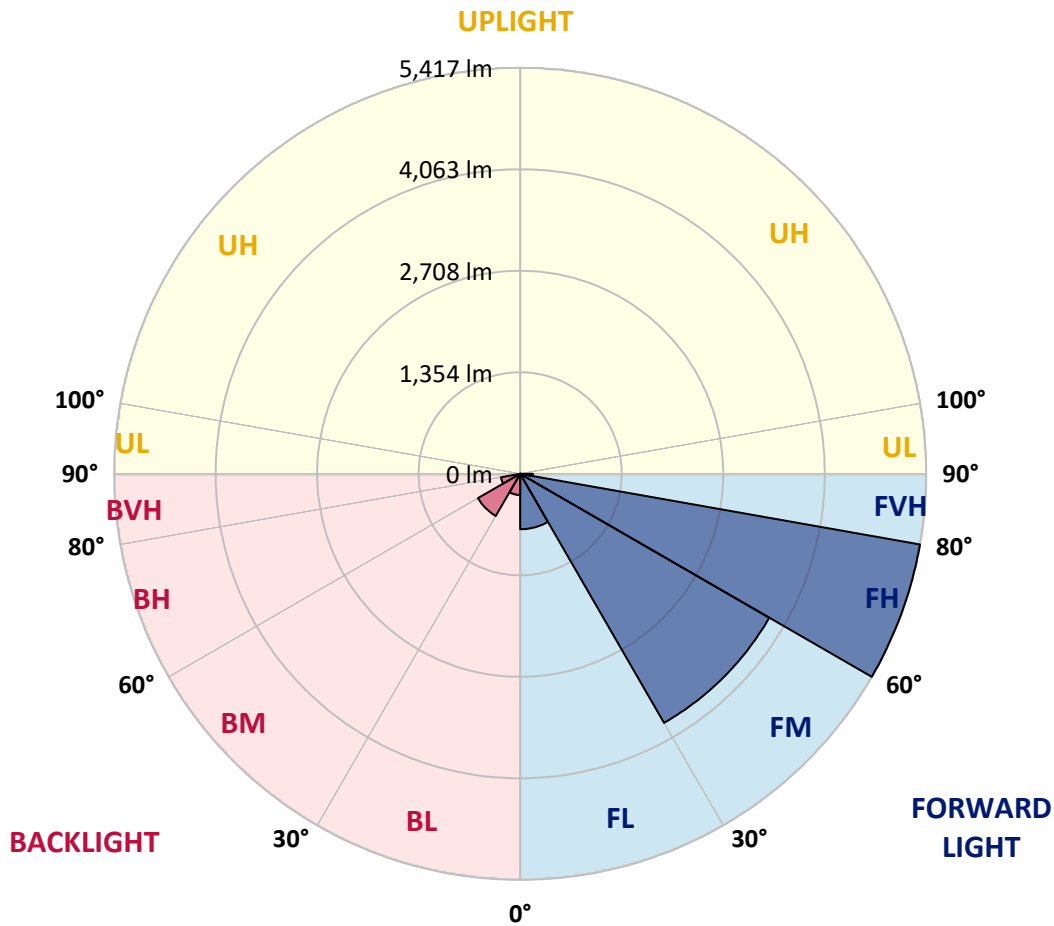
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	739.9	6.5			
FM (30°-60°)	3837.7	33.8			
FH (60°-80°)	5416.8	47.7			G3/7500
FVH (80°-90°)	171.1	1.5			G2/225
BL (0°-30°)	282.7	2.5	B1/500		
BM (30°-60°)	649.1	5.7	B1/1000		
BH (60°-80°)	260.3	2.3	B1/500		G1/500
BVH (80°-90°)	1.5	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



REPORT NUMBER: P947663
 CATALOG NUMBER: GALN-SB2D-940-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4
2.5°	1359.2	1361.5	1359.9	1350.6	1335.1	1326.6	1321.9	1306.4	1296.3	1278.5
5°	1484.0	1493.3	1487.9	1469.2	1439.8	1418.9	1412.6	1380.9	1352.2	1318.8
7.5°	1616.6	1621.2	1611.1	1587.1	1547.6	1511.9	1506.5	1462.3	1416.5	1365.4
10°	1731.3	1736.7	1721.2	1686.3	1641.4	1597.2	1589.4	1540.6	1486.3	1423.5
12.5°	1827.4	1832.9	1812.7	1770.9	1721.2	1675.5	1667.7	1616.6	1556.9	1487.1
15°	1900.3	1910.4	1883.3	1838.3	1784.8	1739.1	1735.2	1684.8	1626.6	1549.1
17.5°	1943.0	1953.1	1927.5	1873.2	1827.4	1788.7	1784.0	1742.2	1687.9	1613.5
20°	1950.0	1959.3	1932.1	1884.8	1846.8	1815.8	1813.5	1783.3	1743.7	1672.4
22.5°	1929.0	1940.6	1915.8	1877.8	1851.5	1835.2	1832.1	1815.0	1792.6	1732.1
25°	1907.3	1916.6	1898.0	1864.7	1850.7	1849.2	1851.5	1848.4	1843.7	1792.6
27.5°	1905.8	1915.8	1894.9	1863.1	1855.4	1871.6	1874.0	1888.7	1892.6	1847.6
30°	1918.9	1925.9	1905.8	1872.4	1868.5	1905.8	1906.5	1932.9	1939.1	1894.1
32.5°	1947.6	1955.4	1935.2	1886.4	1880.9	1932.9	1935.2	1970.1	1980.2	1943.7
35°	2015.1	2024.4	2001.1	1925.1	1905.8	1958.5	1965.5	2006.6	2026.7	1996.5
37.5°	2183.3	2156.2	2124.4	2003.4	1962.4	1998.8	2010.4	2058.5	2094.2	2059.3
40°	2601.2	2515.9	2416.7	2136.8	2061.6	2084.9	2094.2	2142.2	2191.1	2157.0
42.5°	3228.5	3127.7	2968.0	2443.8	2211.2	2222.9	2229.8	2271.7	2340.7	2313.6
45°	3787.5	3751.0	3588.2	2968.0	2491.1	2433.8	2442.3	2464.0	2565.6	2555.5
47.5°	4217.0	4196.1	4070.5	3569.6	2964.1	2691.9	2716.0	2726.1	2872.6	2908.3
50°	4547.3	4539.5	4427.1	4104.6	3582.0	3072.6	3081.2	3059.4	3278.9	3367.3
52.5°	4859.0	4885.3	4802.4	4601.6	4241.8	3571.2	3569.6	3467.3	3763.4	3896.8
55°	5140.4	5149.7	5158.3	5108.6	4905.5	4138.7	4124.0	3956.5	4325.6	4463.6
57.5°	5404.8	5408.7	5484.7	5586.2	5596.3	4748.1	4721.0	4520.2	4939.6	5038.1
60°	5582.4	5600.2	5760.7	6042.9	6166.2	5376.9	5362.2	5157.5	5564.5	5610.3
62.5°	5326.5	5435.1	5839.8	6399.6	6704.3	6073.9	6066.9	5874.7	6222.0	6184.8
65°	4311.6	4495.4	5207.1	6640.7	7232.3	6852.4	6862.4	6657.7	6897.3	6776.4
67.5°	3016.0	3209.9	4051.9	6660.1	7822.3	7766.5	7824.6	7503.6	7614.5	7343.1
70°	2085.6	2185.7	2733.8	6242.9	8282.1	9025.6	9024.1	8542.6	8327.8	7601.3
72.5°	1402.6	1454.5	1775.5	4952.8	7944.0	9773.8	9728.8	9336.5	8568.2	7109.0
75°	591.6	629.6	821.8	2783.4	6284.8	8941.9	8820.1	8251.0	7613.0	5597.9
77.5°	187.6	203.9	324.1	996.3	3461.8	6721.3	6592.6	5152.8	5102.4	2808.2
80°	89.2	103.9	182.2	400.1	1362.3	3655.7	3637.8	2337.6	2195.0	758.3
82.5°	38.8	45.7	100.8	214.0	609.4	1304.1	1330.5	795.5	658.3	287.6
85°	12.4	16.3	46.5	98.5	257.4	324.1	320.2	189.2	265.2	156.6
87.5°	0.0	0.0	15.5	22.5	26.4	18.6	20.9	16.3	73.7	43.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947663

CATALOG NUMBER: GALN-SB2D-940-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1244.4	0°	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4	1244.4
1259.9	2.5°	1250.6	1238.2	1216.5	1196.3	1178.5	1160.7	1149.8	1134.3	1132.8	1132.8
1280.1	5°	1259.1	1239.0	1200.2	1159.1	1111.8	1066.9	1021.9	978.5	964.5	954.4
1312.6	7.5°	1283.9	1252.2	1190.9	1112.6	1022.7	924.2	855.2	780.8	752.1	736.6
1356.0	10°	1319.6	1276.2	1183.2	1045.9	900.2	766.0	667.6	586.9	555.9	542.7
1403.3	12.5°	1359.2	1305.7	1169.2	963.0	766.0	605.5	509.4	472.2	467.5	467.5
1459.9	15°	1406.4	1341.3	1145.2	865.3	625.7	479.2	445.0	446.6	451.2	454.3
1515.0	17.5°	1455.3	1379.3	1107.2	755.9	501.6	431.1	431.9	434.2	438.1	441.2
1574.7	20°	1508.0	1417.3	1056.8	639.6	430.3	417.1	419.5	421.8	424.9	426.4
1630.5	22.5°	1564.6	1453.0	997.1	525.7	406.3	405.5	406.3	408.6	412.5	412.5
1695.6	25°	1625.1	1492.5	928.8	442.7	393.9	393.9	395.4	397.0	400.1	400.1
1758.4	27.5°	1687.1	1528.9	856.7	399.3	383.0	382.2	382.2	384.6	386.1	386.9
1820.5	30°	1755.3	1571.6	784.6	390.0	374.5	370.6	368.3	369.8	371.4	372.2
1885.6	32.5°	1825.1	1612.7	720.3	393.9	366.0	359.0	351.2	349.7	349.7	352.8
1953.1	35°	1902.7	1657.7	670.7	407.0	361.3	341.9	329.5	322.5	323.3	328.0
2033.7	37.5°	1995.7	1711.9	634.2	418.7	358.2	322.5	302.4	293.8	288.4	293.8
2144.6	40°	2117.4	1791.8	607.9	428.0	354.3	300.1	272.9	259.0	248.9	252.0
2316.7	42.5°	2296.5	1917.4	597.8	428.8	345.8	273.7	242.7	224.1	209.3	210.1
2575.6	45°	2547.7	2115.9	649.7	418.7	327.2	245.0	210.9	186.1	176.8	174.4
2962.5	47.5°	2892.0	2405.1	769.9	397.7	300.1	217.1	179.9	158.9	152.0	148.1
3470.4	50°	3353.3	2776.5	903.3	374.5	272.9	190.7	154.3	141.1	136.5	132.6
4072.8	52.5°	3888.3	3153.3	1012.6	351.2	245.8	167.5	138.0	130.3	126.4	123.3
4654.3	55°	4379.1	3413.0	1006.4	326.4	219.4	148.9	126.4	121.7	117.1	114.0
5155.2	57.5°	4684.5	3449.4	829.6	299.3	189.2	134.1	115.5	112.4	107.0	103.1
5588.6	60°	4824.9	3241.6	581.5	263.6	158.9	120.2	103.9	102.3	95.4	89.9
5998.7	62.5°	4850.5	2855.5	387.7	219.4	132.6	107.0	92.3	89.9	80.6	71.3
6332.1	65°	4746.6	2303.5	268.3	171.3	113.2	93.0	79.1	74.4	64.4	55.0
6411.2	67.5°	4417.8	1617.3	186.9	123.3	96.1	73.7	62.8	61.3	53.5	45.7
6008.0	70°	3815.4	921.9	124.8	92.3	76.0	50.4	49.6	51.2	43.4	37.2
4908.6	72.5°	2925.3	421.8	77.5	67.5	51.9	34.1	39.5	40.3	33.3	27.9
3062.5	75°	1722.0	180.7	48.8	43.4	26.4	22.5	28.7	29.5	22.5	17.8
1119.6	77.5°	586.1	68.2	31.0	25.6	13.2	12.4	18.6	18.6	12.4	7.0
224.8	80°	133.4	25.6	15.5	10.1	6.2	5.4	6.2	5.4	3.1	0.8
69.0	82.5°	38.0	10.1	6.2	3.9	2.3	2.3	0.8	0.0	0.0	0.0
24.0	85°	10.9	4.7	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
8.5	87.5°	4.7	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>
1244.4
1136.6
959.1
738.9
542.7
467.5
454.3
441.2
427.2
414.0
400.8
387.7
373.7
355.1
330.3
292.3
250.4
207.0
171.3
145.8
131.8
122.5
112.4
102.3
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