

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: P940054

Luminaire Tested: **GALN-SB2D-940-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940054  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
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-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

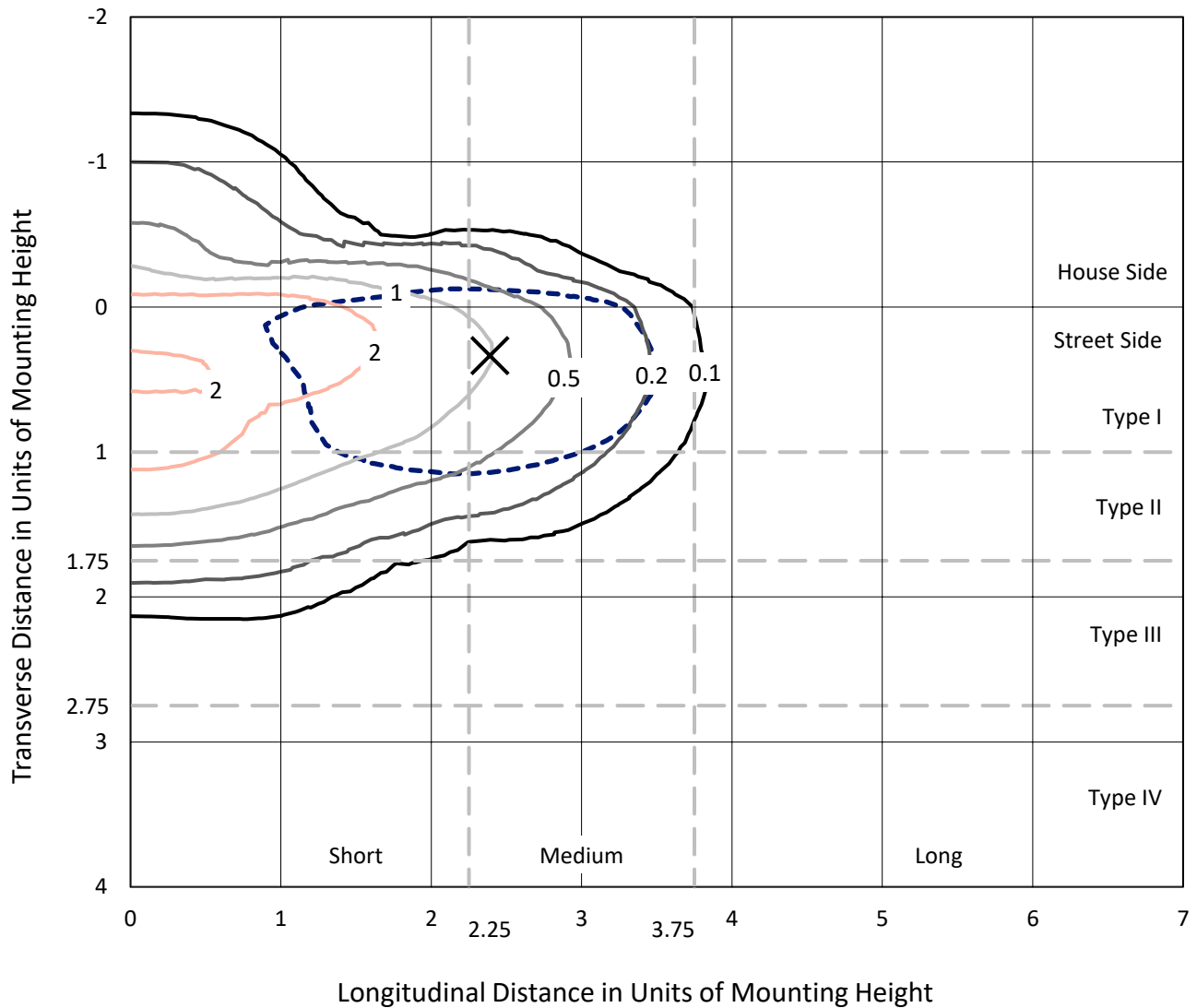
Lumens per Lamp: N/A  
Luminaire Lumens: 10768 lumens  
Efficiency: N/A  
Efficacy: 73.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

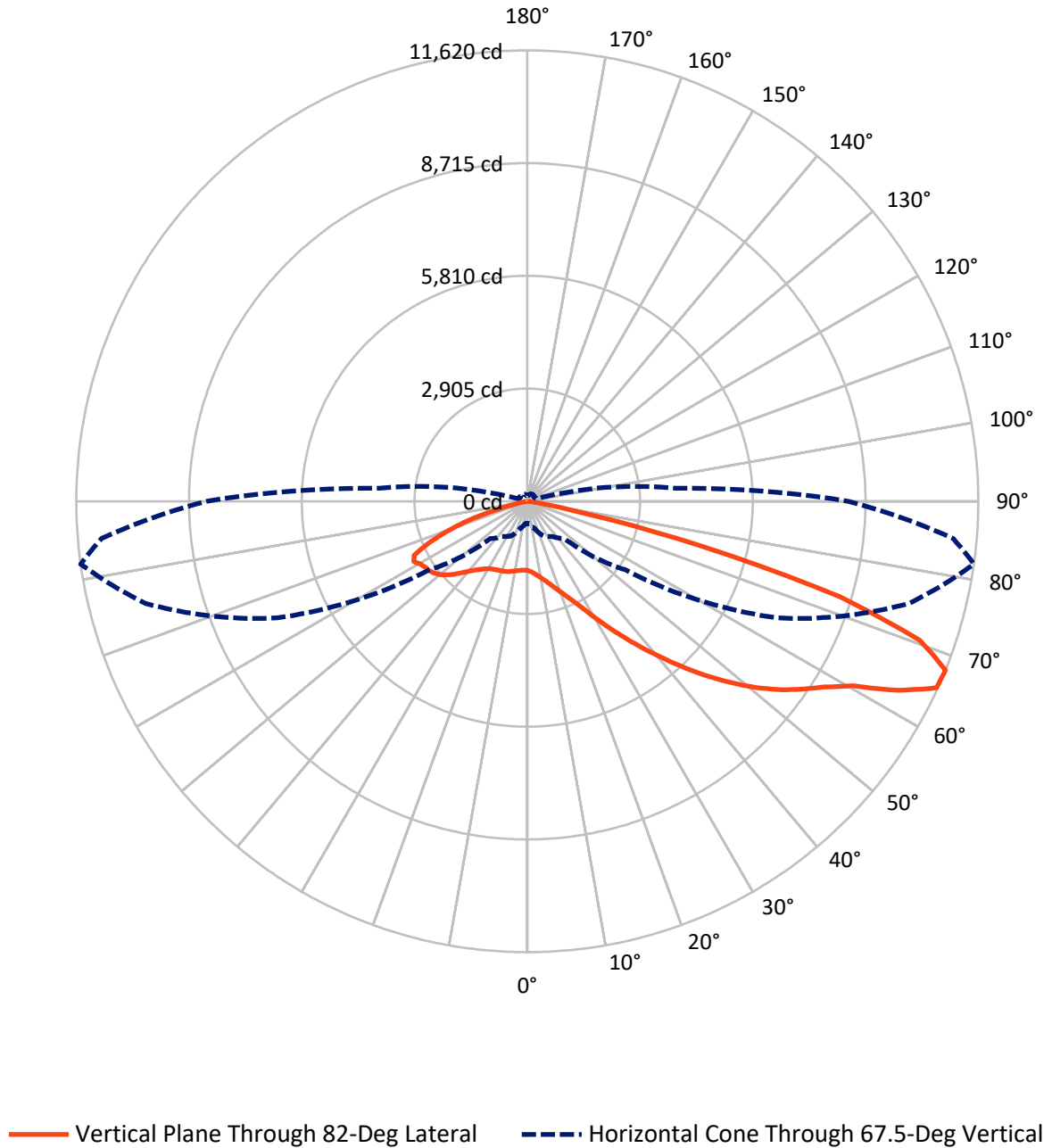
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1950.5	0.0	1950.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	8817.5	0.0	8817.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	10768.0	0.0	10768.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.9	1.5
10°-20°	413.0	3.8
20°-30°	661.5	6.1
30°-40°	1169.7	10.9
40°-50°	2049.5	19.0
50°-60°	2733.4	25.4
60°-70°	2544.7	23.6
70°-80°	976.6	9.1
80°-90°	60.7	0.6
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°	10768.0	100.0
0°-180°	10768.0	100.0

**Coefficient of Utilization**



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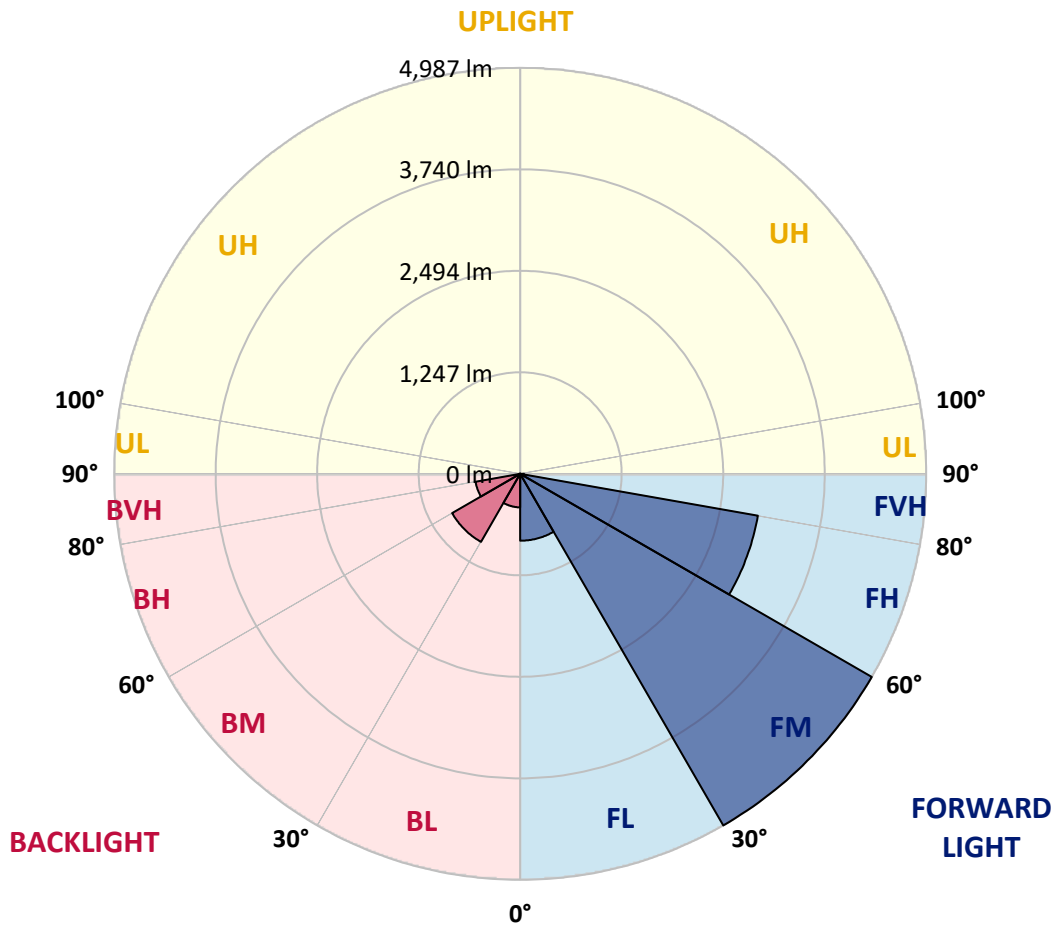
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.5	7.6			
FM (30°-60°)	4987.3	46.3			
FH (60°-80°)	2964.6	27.5			G2/5000
FVH (80°-90°)	44.1	0.4			G1/100
BL (0°-30°)	411.9	3.8	B1/500		
BM (30°-60°)	965.3	9.0	B1/1000		
BH (60°-80°)	556.7	5.2	B2/1000		G2/1000
BVH (80°-90°)	16.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1783.9	1783.9	1783.9	1783.9	1783.9	1783.9	1783.9	1783.9	1783.9	1783.9
2.5°	1885.5	1896.3	1890.1	1887.0	1881.6	1873.8	1867.6	1848.2	1828.1	1814.9
5°	1923.4	1934.3	1933.5	1936.6	1940.5	1942.8	1941.3	1919.6	1890.9	1868.4
7.5°	1890.9	1903.3	1913.4	1928.9	1956.0	1984.7	1998.6	1994.0	1964.5	1933.5
10°	1798.6	1811.8	1835.8	1872.3	1929.6	1991.7	2043.6	2067.6	2049.0	2014.9
12.5°	1629.6	1642.8	1690.1	1769.2	1865.3	1973.1	2072.3	2136.6	2141.3	2107.2
15°	1439.7	1452.9	1503.2	1602.5	1749.0	1921.9	2087.8	2209.5	2250.6	2221.1
17.5°	1321.8	1333.5	1371.5	1451.3	1604.0	1819.6	2082.4	2287.0	2380.9	2357.6
20°	1286.2	1296.2	1314.1	1369.9	1497.0	1713.3	2046.7	2359.9	2521.2	2508.0
22.5°	1324.2	1333.5	1338.9	1363.7	1443.6	1643.6	2001.7	2434.3	2684.0	2685.5
25°	1411.8	1421.1	1414.9	1430.4	1465.3	1621.9	1984.7	2521.9	2888.7	2905.7
27.5°	1556.0	1556.7	1542.0	1541.2	1546.7	1654.4	2002.5	2615.8	3146.8	3178.6
30°	1845.1	1833.5	1776.9	1715.7	1687.8	1752.1	2052.1	2726.6	3451.5	3508.1
32.5°	2290.9	2273.9	2170.0	2023.5	1876.2	1909.5	2141.3	2853.0	3783.3	3885.6
35°	2774.7	2770.0	2661.5	2443.6	2186.3	2133.5	2286.3	3018.9	4145.4	4308.2
37.5°	3224.3	3222.0	3160.0	2903.4	2590.2	2446.0	2518.8	3236.0	4533.0	4768.7
40°	3635.2	3642.2	3580.2	3350.7	3035.2	2846.8	2835.2	3504.2	4964.0	5270.3
42.5°	3990.3	3998.1	3935.3	3765.5	3474.8	3290.2	3223.6	3832.9	5385.0	5809.1
45°	4231.4	4279.5	4270.2	4134.5	3926.0	3734.5	3690.3	4245.4	5864.9	6380.5
47.5°	4299.6	4343.8	4413.6	4432.2	4305.1	4116.7	4169.4	4742.3	6350.2	6952.6
50°	4131.4	4172.5	4317.5	4510.5	4598.9	4540.7	4635.3	5274.9	6847.2	7523.2
52.5°	3799.6	3841.5	4024.4	4329.9	4690.4	4873.3	5102.8	5799.8	7328.6	8063.6
55°	3319.7	3363.9	3598.8	3944.6	4515.9	5010.6	5492.8	6323.9	7769.7	8549.7
57.5°	2666.9	2699.5	2943.7	3427.5	4077.1	4874.1	5780.4	6896.0	8185.3	9027.2
60°	1738.2	1766.8	2050.6	2590.2	3349.9	4418.3	5837.8	7534.1	8737.3	9648.2
62.5°	1155.9	1175.3	1343.5	1739.7	2359.1	3543.0	5502.1	8043.4	9546.7	10728.9
65°	793.1	812.5	980.7	1256.7	1524.2	2343.6	4536.9	7976.0	10280.1	11587.2
67.5°	565.9	582.2	724.9	985.4	1103.2	1361.4	3075.5	7113.9	10174.6	11619.7
70°	405.5	414.8	532.6	767.5	876.8	817.9	1710.2	5440.8	8908.6	10729.7
72.5°	283.7	286.8	369.8	584.6	706.3	597.0	814.0	3627.5	6737.9	8421.7
75°	192.3	196.1	248.9	428.7	566.7	455.9	431.0	1945.1	3955.4	4661.7
77.5°	117.8	119.4	160.5	293.1	424.1	347.3	277.5	824.1	1530.4	1502.5
80°	66.7	66.7	102.3	182.2	289.2	224.1	194.6	350.4	484.5	425.6
82.5°	37.2	38.0	74.4	113.2	191.5	132.6	107.0	162.0	209.3	185.3
85°	15.5	17.1	45.7	53.5	91.5	65.9	43.4	68.2	77.5	69.0
87.5°	1.6	2.3	14.0	10.1	10.9	13.2	6.2	13.2	10.9	10.9
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°
1783.9	0°	1783.9	1783.9	1783.9	1783.9	1783.9	1783.9	1783.9	1783.9	1783.9	1783.9
1810.3	2.5°	1795.5	1783.9	1754.4	1720.3	1675.4	1653.6	1624.2	1604.0	1587.0	1588.5
1855.2	5°	1830.4	1800.9	1735.1	1652.9	1550.5	1477.7	1400.1	1346.6	1303.2	1293.9
1917.2	7.5°	1878.5	1832.0	1716.4	1568.4	1395.5	1264.5	1147.4	1072.2	1018.7	1001.6
1992.4	10°	1940.5	1873.0	1692.4	1462.2	1213.3	1046.6	921.0	862.1	825.7	813.3
2080.8	12.5°	2012.6	1920.3	1660.6	1332.7	1025.7	865.2	785.3	755.9	744.3	740.4
2189.4	15°	2103.3	1979.3	1612.6	1179.2	866.8	754.3	720.2	716.3	717.9	716.3
2319.6	17.5°	2211.1	2043.6	1534.3	1021.0	759.8	697.7	685.3	688.4	692.3	691.5
2465.4	20°	2328.9	2107.2	1434.2	880.7	686.9	657.4	650.5	653.6	656.7	655.1
2633.6	22.5°	2463.0	2175.4	1323.4	771.4	638.0	620.2	612.5	613.2	613.2	610.1
2846.8	25°	2623.5	2250.6	1207.1	693.9	600.8	586.9	577.6	574.5	569.8	560.5
3105.7	27.5°	2815.0	2330.5	1095.5	639.6	571.4	558.2	547.3	539.6	528.0	512.5
3416.6	30°	3030.5	2427.4	1000.9	605.5	548.1	534.9	522.5	510.9	493.8	474.5
3774.0	32.5°	3284.0	2531.3	931.9	583.0	527.2	513.2	498.5	484.5	465.9	446.6
4175.6	35°	3586.4	2656.8	891.6	567.5	510.9	492.3	476.0	460.5	446.6	429.5
4612.1	37.5°	3914.3	2790.2	879.2	559.7	500.0	471.4	452.8	441.9	440.4	430.3
5084.2	40°	4273.3	2948.3	888.5	555.1	488.4	451.2	431.0	428.7	432.6	414.8
5588.9	42.5°	4653.2	3136.0	904.0	549.7	472.1	431.0	411.7	411.7	408.6	383.8
6122.3	45°	5064.1	3352.3	919.5	536.5	452.8	410.9	396.2	390.7	377.6	353.5
6658.8	47.5°	5478.0	3572.4	931.1	512.5	429.5	393.8	380.7	368.3	348.9	327.2
7185.2	50°	5871.1	3770.1	918.7	476.8	403.1	377.6	363.6	346.5	325.6	310.9
7683.7	52.5°	6222.3	3941.5	866.0	434.9	375.2	360.5	348.1	330.3	313.2	297.7
8133.3	55°	6527.8	4080.2	772.9	395.4	350.4	345.8	333.4	310.9	287.6	274.4
8579.1	57.5°	6820.8	4185.7	656.7	362.8	327.9	329.5	310.9	290.7	269.0	255.1
9180.0	60°	7210.8	4326.8	538.8	332.6	303.9	308.6	288.4	273.7	246.5	228.7
10210.3	62.5°	7834.1	4546.2	427.9	295.4	276.0	277.5	269.0	251.2	218.6	197.7
10973.9	65°	8328.7	4465.5	337.2	255.1	244.2	246.5	246.5	227.2	192.3	168.2
11015.0	67.5°	8272.9	3823.6	269.0	215.5	214.0	215.5	221.0	204.7	170.6	151.2
10176.2	70°	7620.9	3041.4	215.5	179.1	186.1	182.2	197.7	186.8	153.5	134.1
7889.1	72.5°	6218.4	2190.9	164.4	148.1	142.6	148.9	178.3	168.2	127.9	106.2
4178.7	75°	3633.7	1169.1	122.5	117.1	103.1	124.0	158.2	143.4	97.7	78.3
1280.7	77.5°	1183.1	407.8	89.9	86.1	76.8	100.0	134.9	120.9	79.9	62.0
375.2	80°	317.1	123.3	61.2	56.6	49.6	74.4	107.0	96.1	57.4	40.3
161.3	82.5°	127.1	51.9	35.7	31.8	27.1	51.2	84.5	77.5	42.6	25.6
50.4	85°	41.1	17.1	13.2	10.1	12.4	31.8	50.4	52.7	30.2	13.2
7.8	87.5°	5.4	2.3	2.3	3.1	2.3	5.4	15.5	14.7	8.5	1.6
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>
1783.9
1573.0
1273.0
984.6
804.0
738.1
715.6
690.0
654.3
608.6
559.0
510.9
472.9
447.3
427.9
429.5
415.5
383.8
352.7
326.4
308.6
296.2
272.9
253.5
226.4
196.1
165.9
<i>148.1</i>
131.8
103.9
76.0
59.7
39.5
25.6
10.1
0.0
0.0

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