

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: P947789

Luminaire Tested: **GALN-SB3A-740-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947789  
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-SB3A-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

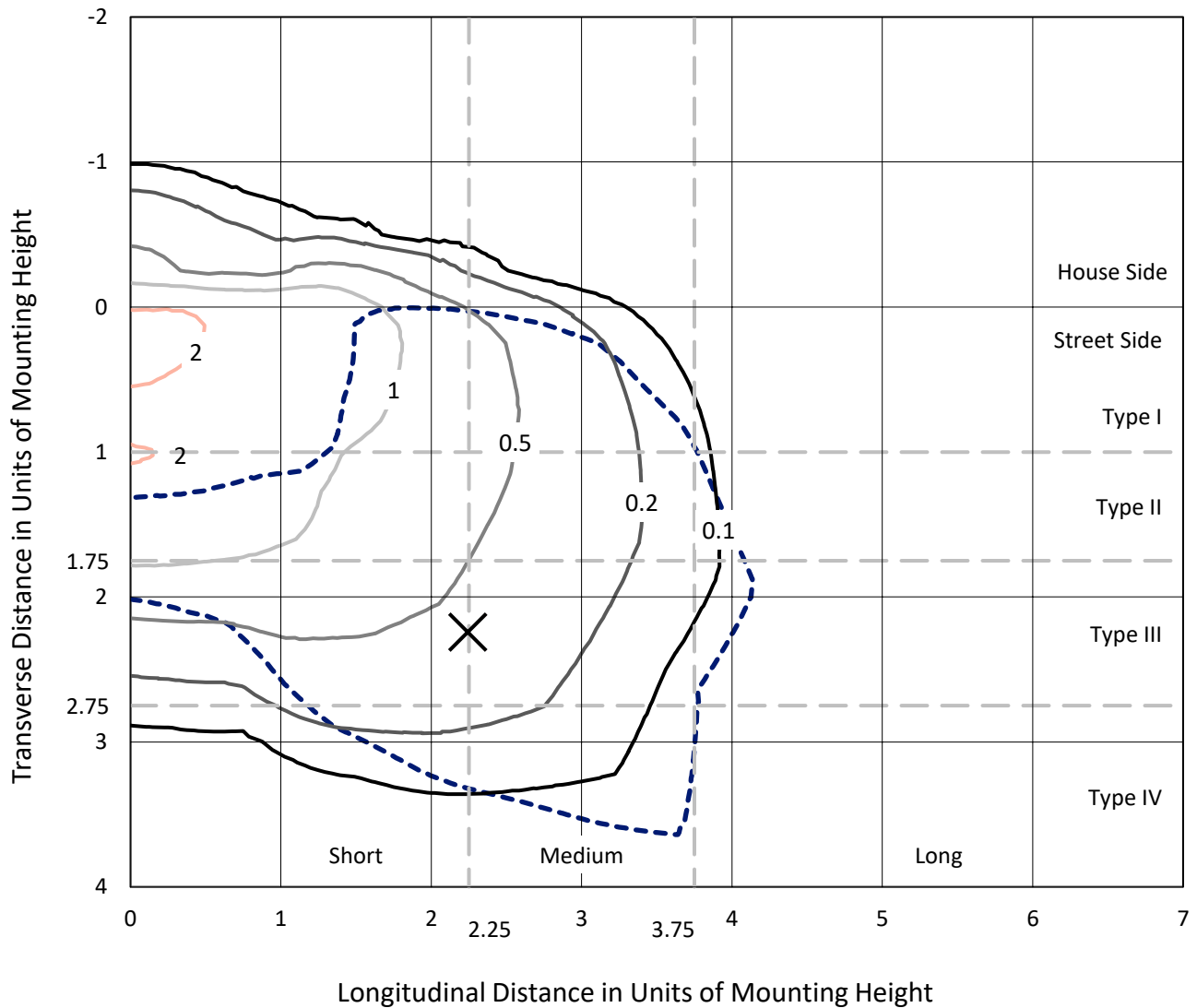
Lumens per Lamp: N/A  
Luminaire Lumens: 10968 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

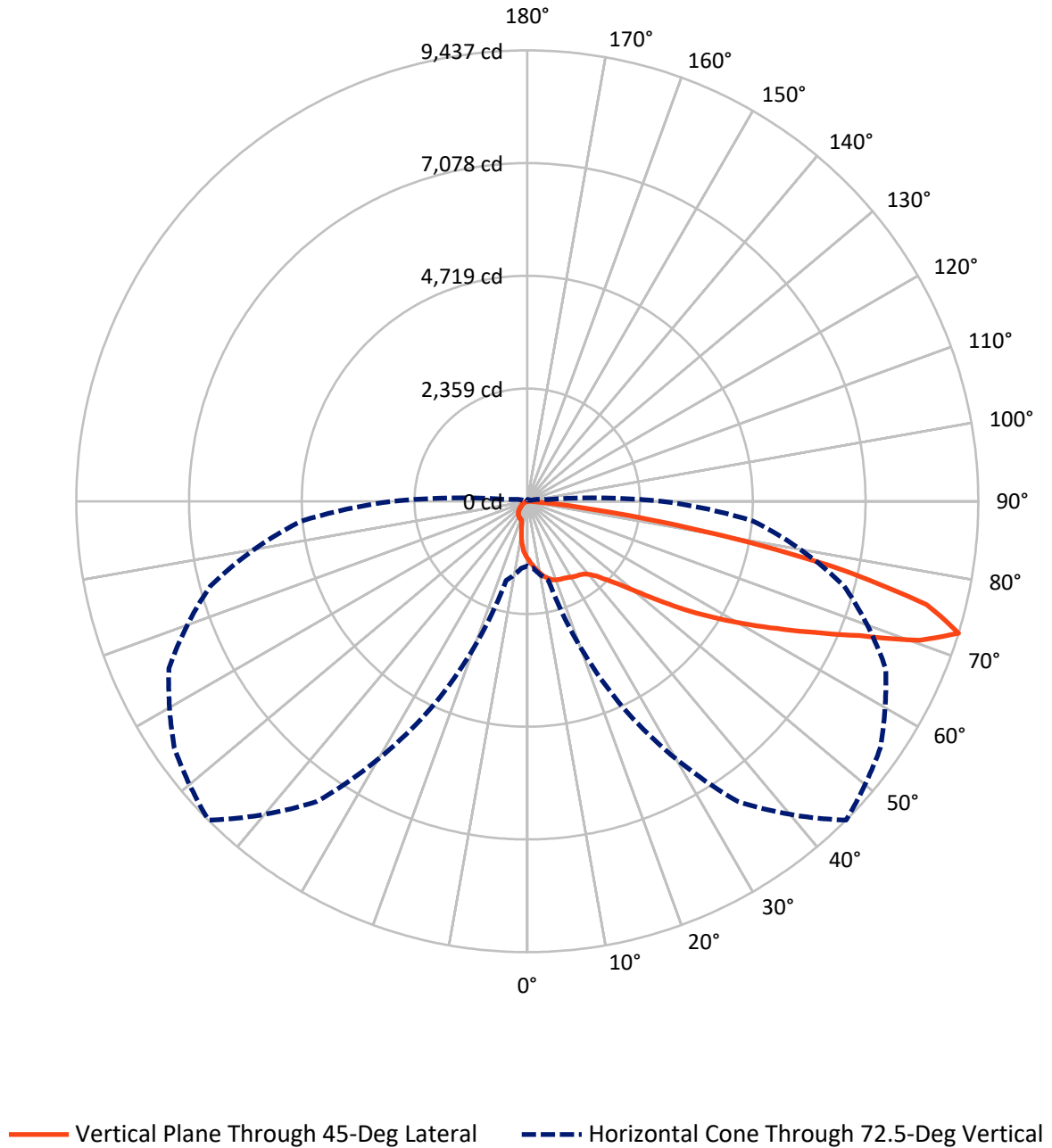
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1152.4	0.0	1152.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	9815.6	0.0	9815.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	10968.0	0.0	10968.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.2	1.0
10°-20°	330.9	3.0
20°-30°	543.3	5.0
30°-40°	770.6	7.0
40°-50°	1273.7	11.6
50°-60°	2288.1	20.9
60°-70°	3177.1	29.0
70°-80°	2304.6	21.0
80°-90°	166.6	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°	10968.0	100.0
0°-180°	10968.0	100.0

**Coefficient of Utilization**



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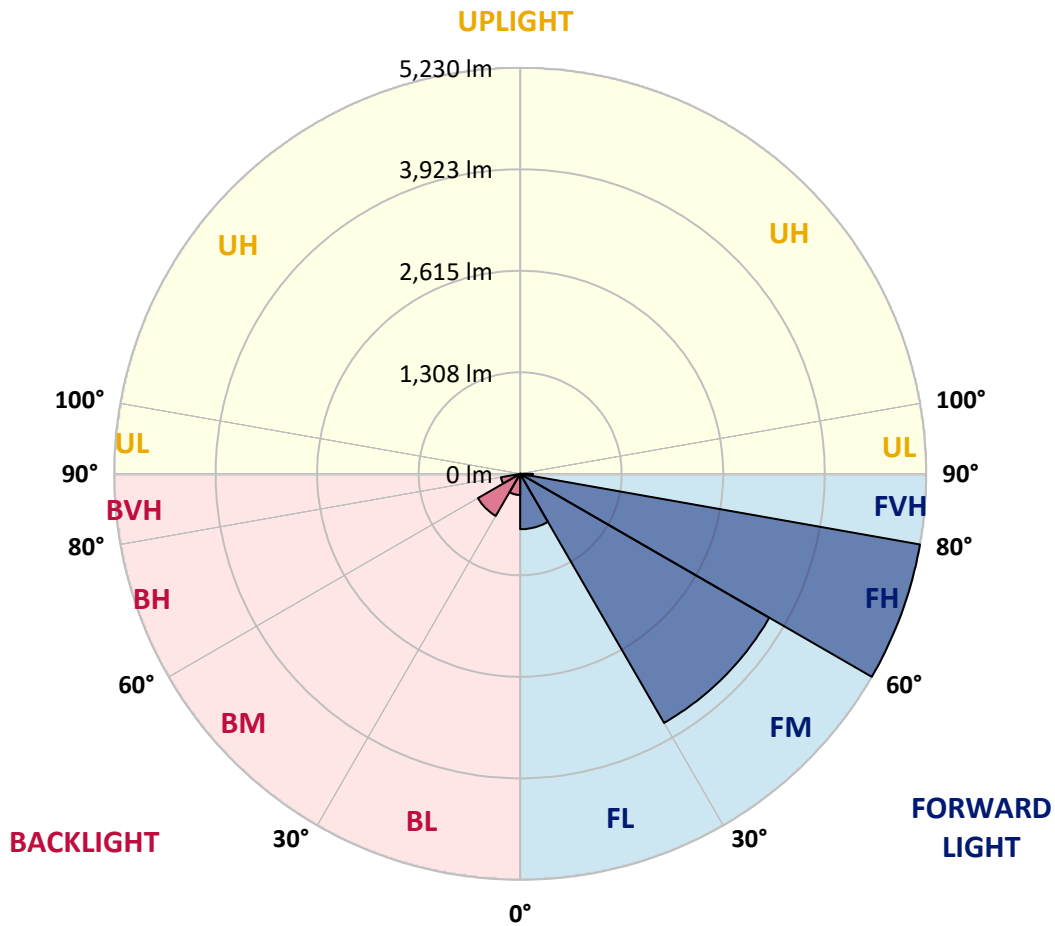
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	714.5	6.5			
FM (30°-60°)	3705.6	33.8			
FH (60°-80°)	5230.3	47.7			G3/7500
FVH (80°-90°)	165.2	1.5			G2/225
BL (0°-30°)	273.0	2.5	B1/500		
BM (30°-60°)	626.8	5.7	B1/1000		
BH (60°-80°)	251.3	2.3	B1/500		G1/500
BVH (80°-90°)	1.4	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°	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6
2.5°	1312.4	1314.6	1313.1	1304.1	1289.2	1280.9	1276.4	1261.5	1251.7	1234.5
5°	1432.9	1441.9	1436.6	1418.7	1390.2	1370.0	1364.0	1333.3	1305.6	1273.4
7.5°	1560.9	1565.4	1555.7	1532.5	1494.3	1459.8	1454.6	1411.9	1367.8	1318.4
10°	1671.7	1677.0	1662.0	1628.3	1584.9	1542.2	1534.7	1487.5	1435.1	1374.5
12.5°	1764.5	1769.8	1750.3	1709.9	1662.0	1617.8	1610.3	1560.9	1503.3	1435.9
15°	1834.9	1844.6	1818.4	1775.0	1723.4	1679.2	1675.5	1626.8	1570.6	1495.8
17.5°	1876.1	1885.8	1861.1	1808.7	1764.5	1727.1	1722.6	1682.2	1629.8	1557.9
20°	1882.8	1891.8	1865.6	1819.9	1783.3	1753.3	1751.1	1721.9	1683.7	1614.8
22.5°	1862.6	1873.8	1849.9	1813.2	1787.8	1772.0	1769.0	1752.6	1730.9	1672.5
25°	1841.7	1850.6	1832.7	1800.5	1787.0	1785.5	1787.8	1784.8	1780.3	1730.9
27.5°	1840.2	1849.9	1829.7	1799.0	1791.5	1807.2	1809.5	1823.7	1827.4	1784.0
30°	1852.9	1859.6	1840.2	1808.0	1804.2	1840.2	1840.9	1866.4	1872.3	1828.9
32.5°	1880.6	1888.1	1868.6	1821.4	1816.2	1866.4	1868.6	1902.3	1912.0	1876.8
35°	1945.7	1954.7	1932.2	1858.9	1840.2	1891.1	1897.8	1937.5	1956.9	1927.7
37.5°	2108.2	2082.0	2051.3	1934.5	1894.8	1930.0	1941.2	1987.6	2022.1	1988.4
40°	2511.7	2429.3	2333.5	2063.3	1990.6	2013.1	2022.1	2068.5	2115.7	2082.7
42.5°	3117.3	3020.0	2865.8	2359.7	2135.1	2146.4	2153.1	2193.5	2260.1	2233.9
45°	3657.1	3621.9	3464.7	2865.8	2405.4	2350.0	2358.2	2379.2	2477.3	2467.5
47.5°	4071.9	4051.6	3930.4	3446.7	2862.1	2599.3	2622.5	2632.2	2773.7	2808.1
50°	4390.8	4383.3	4274.7	3963.3	3458.7	2966.9	2975.1	2954.1	3166.0	3251.3
52.5°	4691.7	4717.2	4637.1	4443.2	4095.8	3448.2	3446.7	3347.9	3633.9	3762.7
55°	4963.5	4972.5	4980.7	4932.8	4736.6	3996.2	3982.0	3820.3	4176.7	4309.9
57.5°	5218.8	5222.5	5295.9	5394.0	5403.7	4584.7	4558.5	4364.6	4769.6	4864.7
60°	5390.2	5407.4	5562.4	5834.9	5953.9	5191.8	5177.6	4980.0	5373.0	5417.2
62.5°	5143.2	5248.0	5638.8	6179.3	6473.5	5864.8	5858.1	5672.4	6007.8	5971.9
65°	4163.2	4340.6	5027.9	6412.1	6983.3	6616.5	6626.2	6428.6	6659.9	6543.1
67.5°	2912.2	3099.4	3912.4	6430.8	7553.0	7499.1	7555.3	7245.3	7352.4	7090.4
70°	2013.8	2110.4	2639.7	6028.1	7997.0	8714.9	8713.4	8248.5	8041.1	7339.7
72.5°	1354.3	1404.4	1714.4	4782.3	7670.6	9437.4	9393.9	9015.1	8273.2	6864.3
75°	571.2	607.9	793.6	2687.6	6068.5	8634.1	8516.5	7967.0	7350.9	5405.2
77.5°	181.2	196.9	312.9	962.0	3342.7	6490.0	6365.7	4975.5	4926.8	2711.6
80°	86.1	100.3	175.9	386.3	1315.4	3529.8	3512.6	2257.2	2119.4	732.2
82.5°	37.4	44.2	97.3	206.6	588.4	1259.2	1284.7	768.1	635.6	277.7
85°	12.0	15.7	44.9	95.1	248.5	312.9	309.2	182.7	256.0	151.2
87.5°	0.0	0.0	15.0	21.7	25.5	18.0	20.2	15.7	71.1	41.9
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°
1201.6	0°	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6
1216.5	2.5°	1207.6	1195.6	1174.6	1155.2	1137.9	1120.7	1110.2	1095.3	1093.8	1093.8
1236.0	5°	1215.8	1196.3	1158.9	1119.2	1073.6	1030.1	986.7	944.8	931.3	921.6
1267.4	7.5°	1239.7	1209.1	1149.9	1074.3	987.5	892.4	825.8	753.9	726.2	711.2
1309.4	10°	1274.2	1232.3	1142.4	1009.9	869.2	739.7	644.6	566.7	536.8	524.0
1355.0	12.5°	1312.4	1260.7	1128.9	929.8	739.7	584.7	491.9	455.9	451.4	451.4
1409.7	15°	1358.0	1295.1	1105.7	835.5	604.2	462.7	429.7	431.2	435.7	438.7
1462.8	17.5°	1405.2	1331.8	1069.1	729.9	484.4	416.2	417.0	419.2	423.0	426.0
1520.5	20°	1456.1	1368.5	1020.4	617.6	415.5	402.8	405.0	407.3	410.3	411.8
1574.4	22.5°	1510.8	1403.0	962.8	507.6	392.3	391.5	392.3	394.5	398.3	398.3
1637.3	25°	1569.2	1441.1	896.9	427.5	380.3	380.3	381.8	383.3	386.3	386.3
1697.9	27.5°	1629.0	1476.3	827.2	385.5	369.8	369.1	369.1	371.3	372.8	373.6
1757.8	30°	1694.9	1517.5	757.6	376.6	361.6	357.9	355.6	357.1	358.6	359.3
1820.7	32.5°	1762.3	1557.2	695.5	380.3	353.4	346.6	339.1	337.6	337.6	340.6
1885.8	35°	1837.2	1600.6	647.6	393.0	348.9	330.2	318.2	311.4	312.2	316.7
1963.7	37.5°	1927.0	1653.0	612.4	404.3	345.9	311.4	292.0	283.7	278.5	283.7
2070.7	40°	2044.5	1730.1	586.9	413.2	342.1	289.7	263.5	250.0	240.3	243.3
2236.9	42.5°	2217.5	1851.4	577.2	414.0	333.9	264.3	234.3	216.4	202.1	202.9
2487.0	45°	2460.0	2043.0	627.4	404.3	315.9	236.6	203.6	179.7	170.7	168.4
2860.6	47.5°	2792.4	2322.3	743.4	384.1	289.7	209.6	173.7	153.5	146.7	143.0
3350.9	50°	3237.9	2680.9	872.2	361.6	263.5	184.2	149.0	136.3	131.8	128.0
3932.6	52.5°	3754.4	3044.7	977.7	339.1	237.3	161.7	133.3	125.8	122.0	119.0
4494.1	55°	4228.3	3295.5	971.7	315.2	211.9	143.7	122.0	117.5	113.0	110.1
4977.7	57.5°	4523.3	3330.7	801.0	289.0	182.7	129.5	111.5	108.6	103.3	99.6
5396.2	60°	4658.8	3130.1	561.5	254.5	153.5	116.0	100.3	98.8	92.1	86.8
5792.2	62.5°	4683.5	2757.2	374.3	211.9	128.0	103.3	89.1	86.8	77.9	68.9
6114.1	65°	4583.2	2224.2	259.0	165.4	109.3	89.8	76.4	71.9	62.1	53.2
6190.5	67.5°	4265.8	1561.7	180.4	119.0	92.8	71.1	60.6	59.1	51.7	44.2
5801.2	70°	3684.1	890.1	120.5	89.1	73.4	48.7	47.9	49.4	41.9	35.9
4739.6	72.5°	2824.6	407.3	74.9	65.1	50.2	32.9	38.2	38.9	32.2	27.0
2957.1	75°	1662.7	174.4	47.2	41.9	25.5	21.7	27.7	28.4	21.7	17.2
1081.0	77.5°	566.0	65.9	29.9	24.7	12.7	12.0	18.0	18.0	12.0	6.7
217.1	80°	128.8	24.7	15.0	9.7	6.0	5.2	6.0	5.2	3.0	0.7
66.6	82.5°	36.7	9.7	6.0	3.7	2.2	2.2	0.7	0.0	0.0	0.0
23.2	85°	10.5	4.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
8.2	87.5°	4.5	0.7	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>
1201.6
1097.5
926.1
713.5
524.0
451.4
438.7
426.0
412.5
399.8
387.0
374.3
360.8
342.9
318.9
282.2
241.8
199.9
165.4
140.7
127.3
118.3
108.6
98.8
85.3
64.4
50.2
41.9
32.9
24.0
15.0
5.2
0.0
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