

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: P951170

Luminaire Tested: **GALN-SB5B-927-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951170  
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-SB5B-927-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

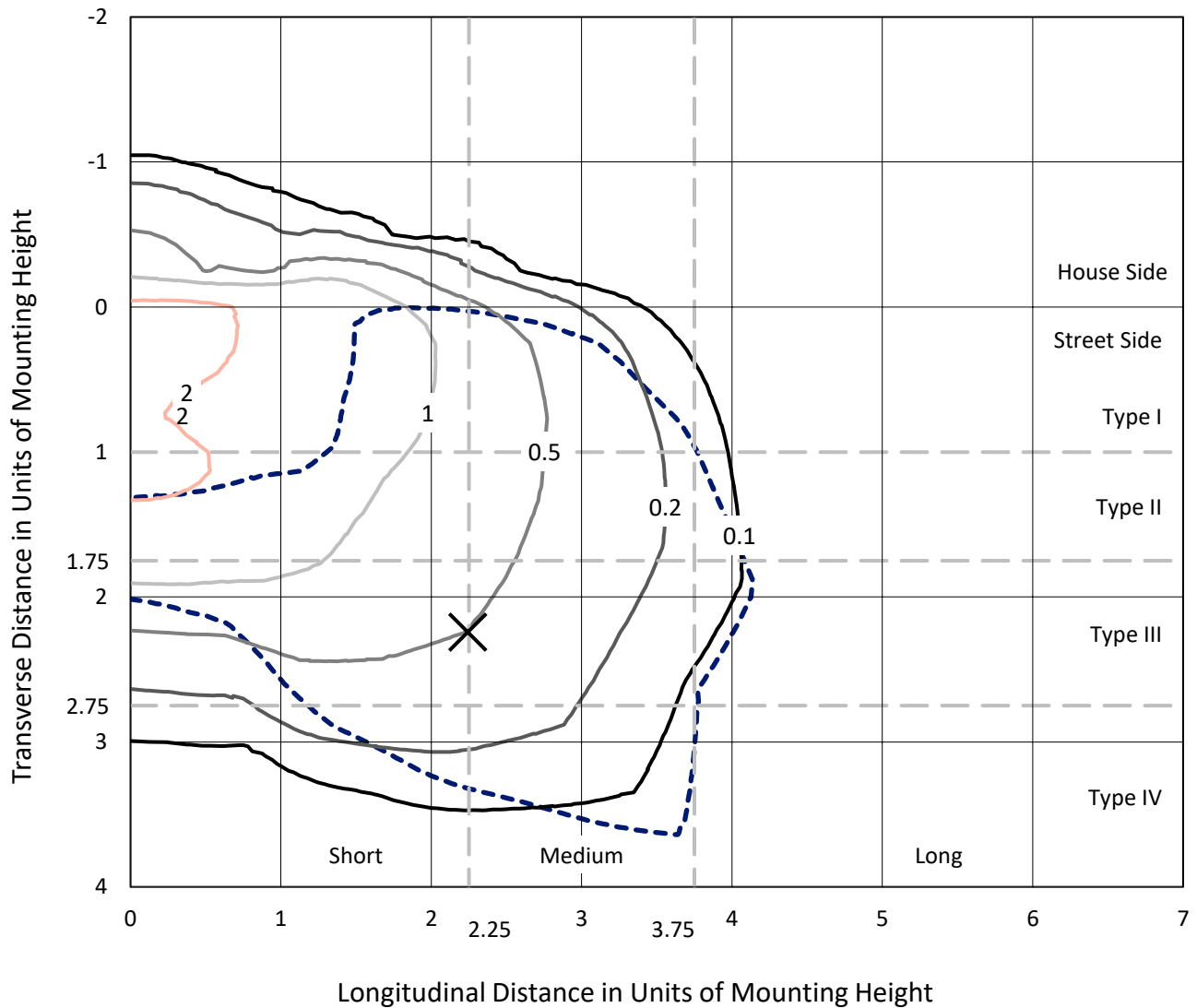
Lumens per Lamp: N/A  
Luminaire Lumens: 13337 lumens  
Efficiency: N/A  
Efficacy: 73.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

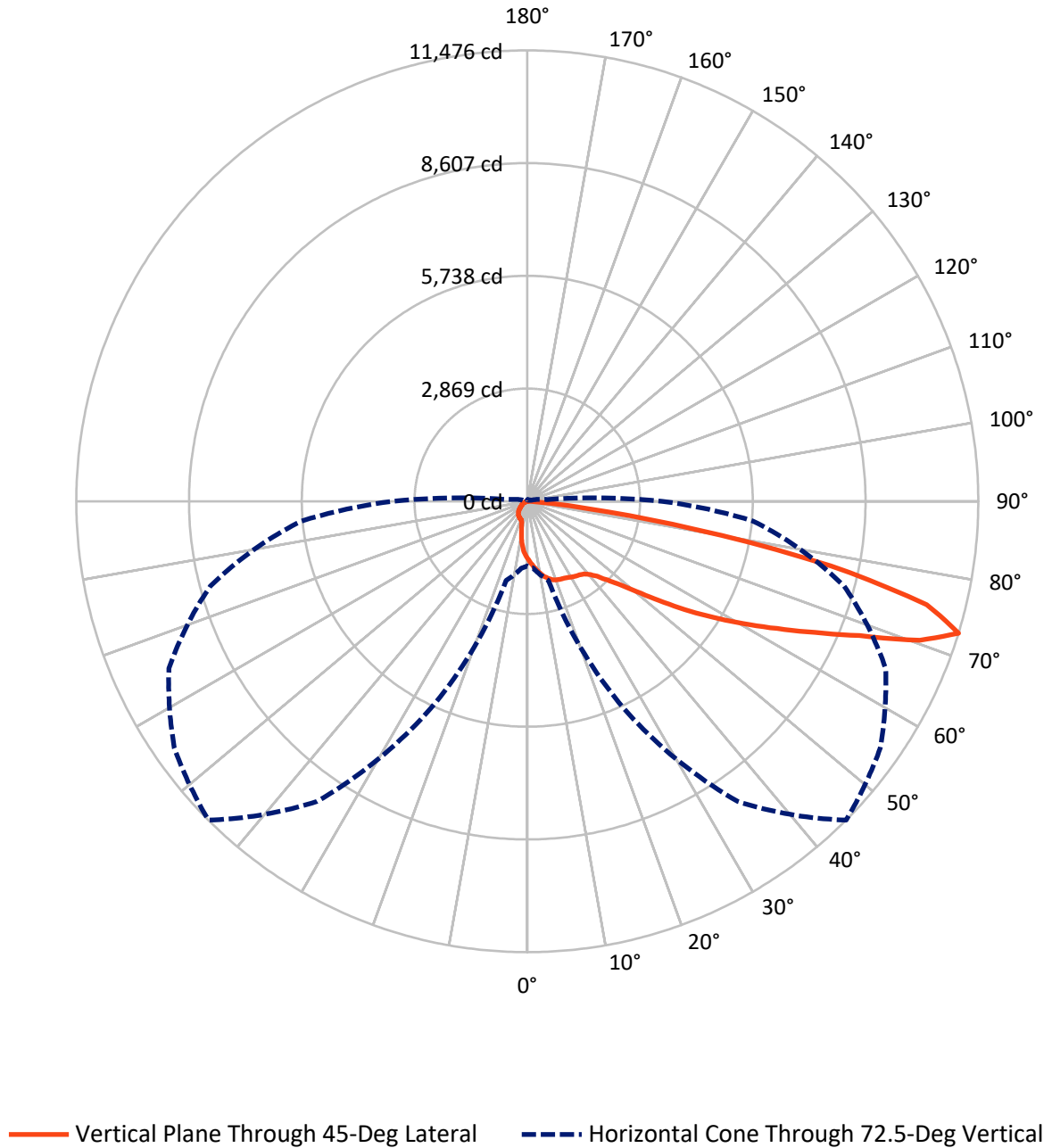
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	1401.3	0.0	1401.3
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	11935.7	0.0	11935.7
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	13337.0	0.0	13337.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.7	1.0
10°-20°	402.3	3.0
20°-30°	660.7	5.0
30°-40°	937.0	7.0
40°-50°	1548.8	11.6
50°-60°	2782.2	20.9
60°-70°	3863.3	29.0
70°-80°	2802.3	21.0
80°-90°	202.6	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°	13337.0	100.0
0°-180°	13337.0	100.0

**Coefficient of Utilization**



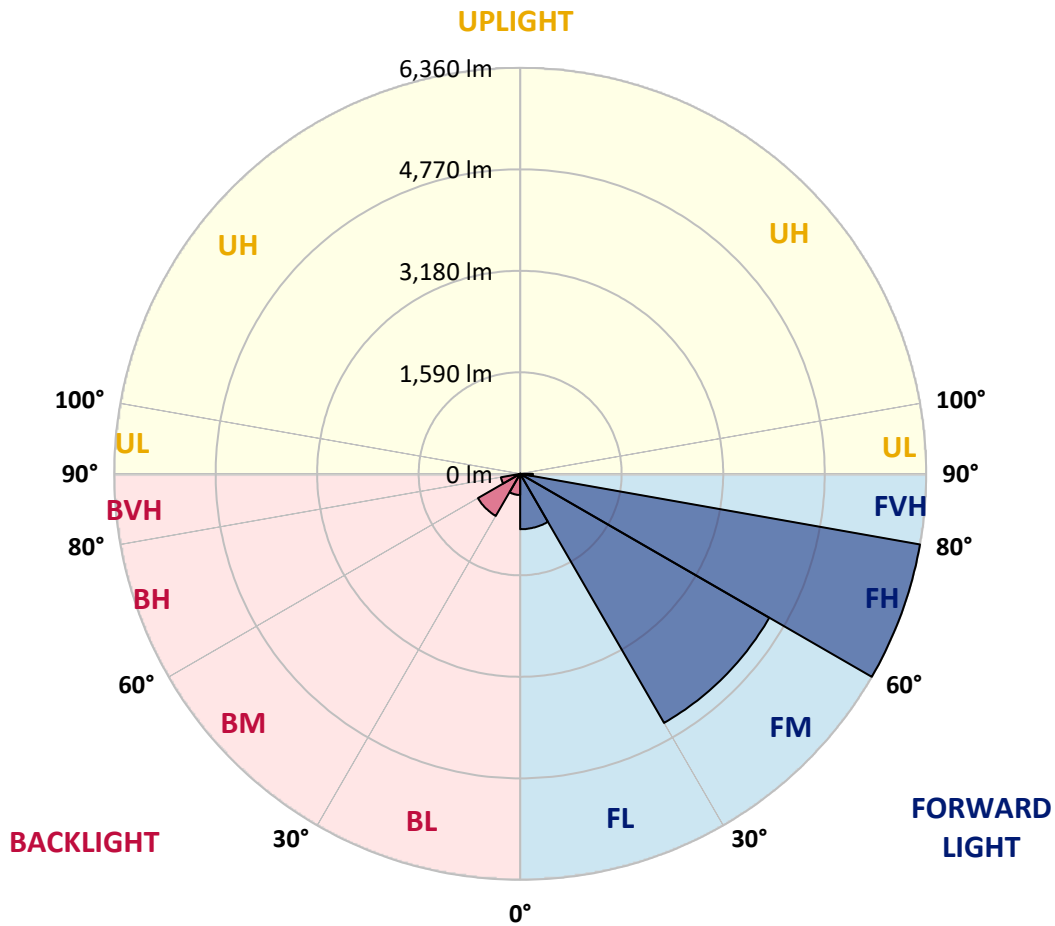
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	868.8	6.5			
FM (30°-60°)	4505.9	33.8			
FH (60°-80°)	6360.0	47.7			G3/7500
FVH (80°-90°)	200.9	1.5			G2/225
BL (0°-30°)	331.9	2.5	B1/500		
BM (30°-60°)	762.1	5.7	B1/1000		
BH (60°-80°)	305.6	2.3	B1/500		G1/500
BVH (80°-90°)	1.7	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°	1461.1	1461.1	1461.1	1461.1	1461.1	1461.1	1461.1	1461.1	1461.1	1461.1
2.5°	1595.8	1598.6	1596.7	1585.8	1567.6	1557.6	1552.1	1533.9	1522.1	1501.2
5°	1742.4	1753.3	1746.9	1725.1	1690.5	1665.9	1658.6	1621.3	1587.6	1548.5
7.5°	1898.1	1903.5	1891.7	1863.5	1817.0	1775.2	1768.8	1716.9	1663.2	1603.1
10°	2032.8	2039.2	2021.0	1980.0	1927.2	1875.3	1866.2	1808.8	1745.1	1671.4
12.5°	2145.7	2152.0	2128.4	2079.2	2021.0	1967.2	1958.1	1898.1	1828.0	1746.0
15°	2231.2	2243.1	2211.2	2158.4	2095.6	2041.9	2037.3	1978.2	1909.9	1818.9
17.5°	2281.3	2293.1	2263.1	2199.4	2145.7	2100.2	2094.7	2045.5	1981.8	1894.4
20°	2289.5	2300.4	2268.6	2213.0	2168.4	2132.0	2129.3	2093.8	2047.4	1963.6
22.5°	2264.9	2278.6	2249.5	2204.8	2173.9	2154.8	2151.1	2131.1	2104.7	2033.7
25°	2239.4	2250.4	2228.5	2189.4	2173.0	2171.2	2173.9	2170.3	2164.8	2104.7
27.5°	2237.6	2249.5	2224.9	2187.5	2178.4	2197.6	2200.3	2217.6	2222.1	2169.3
30°	2253.1	2261.3	2237.6	2198.5	2193.9	2237.6	2238.5	2269.5	2276.8	2224.0
32.5°	2286.8	2295.9	2272.2	2214.9	2208.5	2269.5	2272.2	2313.2	2325.0	2282.2
35°	2366.0	2376.9	2349.6	2260.4	2237.6	2299.5	2307.7	2356.0	2379.6	2344.1
37.5°	2563.5	2531.7	2494.3	2352.3	2304.1	2346.9	2360.5	2417.0	2458.8	2417.9
40°	3054.2	2954.1	2837.5	2508.9	2420.6	2447.9	2458.8	2515.3	2572.6	2532.6
42.5°	3790.7	3672.3	3484.8	2869.4	2596.3	2609.9	2618.1	2667.3	2748.3	2716.5
45°	4447.0	4404.2	4213.1	3484.8	2924.9	2857.6	2867.6	2893.1	3012.3	3000.5
47.5°	4951.3	4926.8	4779.3	4191.2	3480.2	3160.7	3188.9	3200.8	3372.8	3414.7
50°	5339.1	5330.0	5198.0	4819.3	4205.8	3607.7	3617.7	3592.2	3849.8	3953.6
52.5°	5705.1	5736.1	5638.6	5402.9	4980.5	4193.0	4191.2	4071.0	4418.8	4575.4
55°	6035.6	6046.5	6056.5	5998.2	5759.7	4859.4	4842.1	4645.5	5078.8	5240.8
57.5°	6346.0	6350.5	6439.7	6559.0	6570.8	5574.9	5543.1	5307.3	5799.8	5915.4
60°	6554.5	6575.4	6763.8	7095.2	7239.9	6313.2	6295.9	6055.6	6533.5	6587.2
62.5°	6254.0	6381.5	6856.7	7514.0	7871.7	7131.6	7123.4	6897.7	7305.5	7261.8
65°	5062.4	5278.2	6113.8	7797.1	8491.7	8045.6	8057.4	7817.1	8098.4	7956.4
67.5°	3541.2	3768.8	4757.4	7819.8	9184.4	9118.9	9187.2	8810.3	8940.5	8621.8
70°	2448.8	2566.3	3209.9	7330.1	9724.3	10597.3	10595.5	10030.1	9778.0	8925.0
72.5°	1646.8	1707.8	2084.7	5815.3	9327.4	11475.8	11423.0	10962.3	10060.2	8346.9
75°	694.6	739.2	965.0	3268.1	7379.2	10499.0	10356.0	9687.8	8938.6	6572.7
77.5°	220.3	239.4	380.5	1169.8	4064.7	7891.7	7740.6	6050.1	5991.0	3297.3
80°	104.7	122.0	213.9	469.7	1599.5	4292.3	4271.3	2744.7	2577.2	890.3
82.5°	45.5	53.7	118.3	251.3	715.5	1531.2	1562.1	934.0	772.9	337.7
85°	14.6	19.1	54.6	115.6	302.2	380.5	376.0	222.1	311.3	183.9
87.5°	0.0	0.0	18.2	26.4	31.0	21.8	24.6	19.1	86.5	51.0
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°
1461.1	0°	1461.1	1461.1	1461.1	1461.1	1461.1	1461.1	1461.1	1461.1	1461.1	1461.1
1479.3	2.5°	1468.4	1453.8	1428.3	1404.7	1383.7	1362.8	1350.0	1331.8	1330.0	1330.0
1503.0	5°	1478.4	1454.7	1409.2	1361.0	1305.4	1252.6	1199.8	1148.8	1132.5	1120.6
1541.2	7.5°	1507.5	1470.2	1398.3	1306.3	1200.7	1085.1	1004.1	916.7	883.0	864.8
1592.2	10°	1549.4	1498.4	1389.2	1228.0	1056.9	899.4	783.8	689.1	652.7	637.2
1647.7	12.5°	1595.8	1533.0	1372.8	1130.6	899.4	711.0	598.1	554.4	548.9	548.9
1714.2	15°	1651.4	1574.9	1344.6	1015.9	734.6	562.6	522.5	524.4	529.8	533.5
1778.8	17.5°	1708.7	1619.5	1300.0	887.6	589.0	506.1	507.1	509.8	514.3	518.0
1848.9	20°	1770.6	1664.1	1240.8	751.0	505.2	489.8	492.5	495.2	498.9	500.7
1914.4	22.5°	1837.1	1706.0	1170.7	617.2	477.0	476.1	477.0	479.7	484.3	484.3
1990.9	25°	1908.1	1752.4	1090.6	519.8	462.5	462.5	464.3	466.1	469.7	469.7
2064.7	27.5°	1980.9	1795.2	1005.9	468.8	449.7	448.8	448.8	451.5	453.3	454.3
2137.5	30°	2061.0	1845.3	921.3	457.9	439.7	435.1	432.4	434.2	436.1	437.0
2213.9	32.5°	2142.9	1893.5	845.7	462.5	429.7	421.5	412.4	410.6	410.6	414.2
2293.1	35°	2234.0	1946.3	787.4	477.9	424.2	401.5	386.9	378.7	379.6	385.1
2387.8	37.5°	2343.2	2010.0	744.7	491.6	420.6	378.7	355.0	345.0	338.6	345.0
2518.0	40°	2486.1	2103.8	713.7	502.5	416.0	352.3	320.4	304.1	292.2	295.9
2720.1	42.5°	2696.4	2251.3	701.9	503.4	406.0	321.4	284.9	263.1	245.8	246.7
3024.2	45°	2991.4	2484.3	762.9	491.6	384.2	287.7	247.6	218.5	207.6	204.8
3478.4	47.5°	3395.6	2823.9	904.0	467.0	352.3	254.9	211.2	186.6	178.4	173.9
4074.7	50°	3937.2	3259.9	1060.5	439.7	320.4	223.9	181.2	165.7	160.2	155.7
4782.0	52.5°	4565.4	3702.4	1188.9	412.4	288.6	196.6	162.0	152.9	148.4	144.7
5464.8	55°	5141.6	4007.3	1181.6	383.3	257.6	174.8	148.4	142.9	137.5	133.8
6052.9	57.5°	5500.3	4050.1	974.1	351.4	222.1	157.5	135.6	132.0	125.6	121.1
6561.7	60°	5665.0	3806.1	682.8	309.5	186.6	141.1	122.0	120.2	112.0	105.6
7043.3	62.5°	5695.1	3352.8	455.2	257.6	155.7	125.6	108.3	105.6	94.7	83.8
7434.8	65°	5573.1	2704.6	315.0	201.2	132.9	109.2	92.9	87.4	75.6	64.6
7527.6	67.5°	5187.1	1899.0	219.4	144.7	112.9	86.5	73.7	71.9	62.8	53.7
7054.2	70°	4479.8	1082.4	146.6	108.3	89.2	59.2	58.3	60.1	51.0	43.7
5763.4	72.5°	3434.7	495.2	91.0	79.2	61.0	40.1	46.4	47.3	39.1	32.8
3595.8	75°	2021.9	212.1	57.4	51.0	31.0	26.4	33.7	34.6	26.4	20.9
1314.5	77.5°	688.2	80.1	36.4	30.0	15.5	14.6	21.8	21.8	14.6	8.2
264.0	80°	156.6	30.0	18.2	11.8	7.3	6.4	7.3	6.4	3.6	0.9
81.0	82.5°	44.6	11.8	7.3	4.6	2.7	2.7	0.9	0.0	0.0	0.0
28.2	85°	12.7	5.5	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
10.0	87.5°	5.5	0.9	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>
1461.1
1334.6
1126.1
867.6
637.2
548.9
533.5
518.0
501.6
486.1
470.6
455.2
438.8
416.9
387.8
343.2
294.0
243.1
201.2
171.1
154.8
143.8
132.0
120.2
103.8
78.3
61.0
51.0
40.1
29.1
18.2
6.4
0.0
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