

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: P940968

Luminaire Tested: **GALN-SB4B-740-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940968  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4B-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

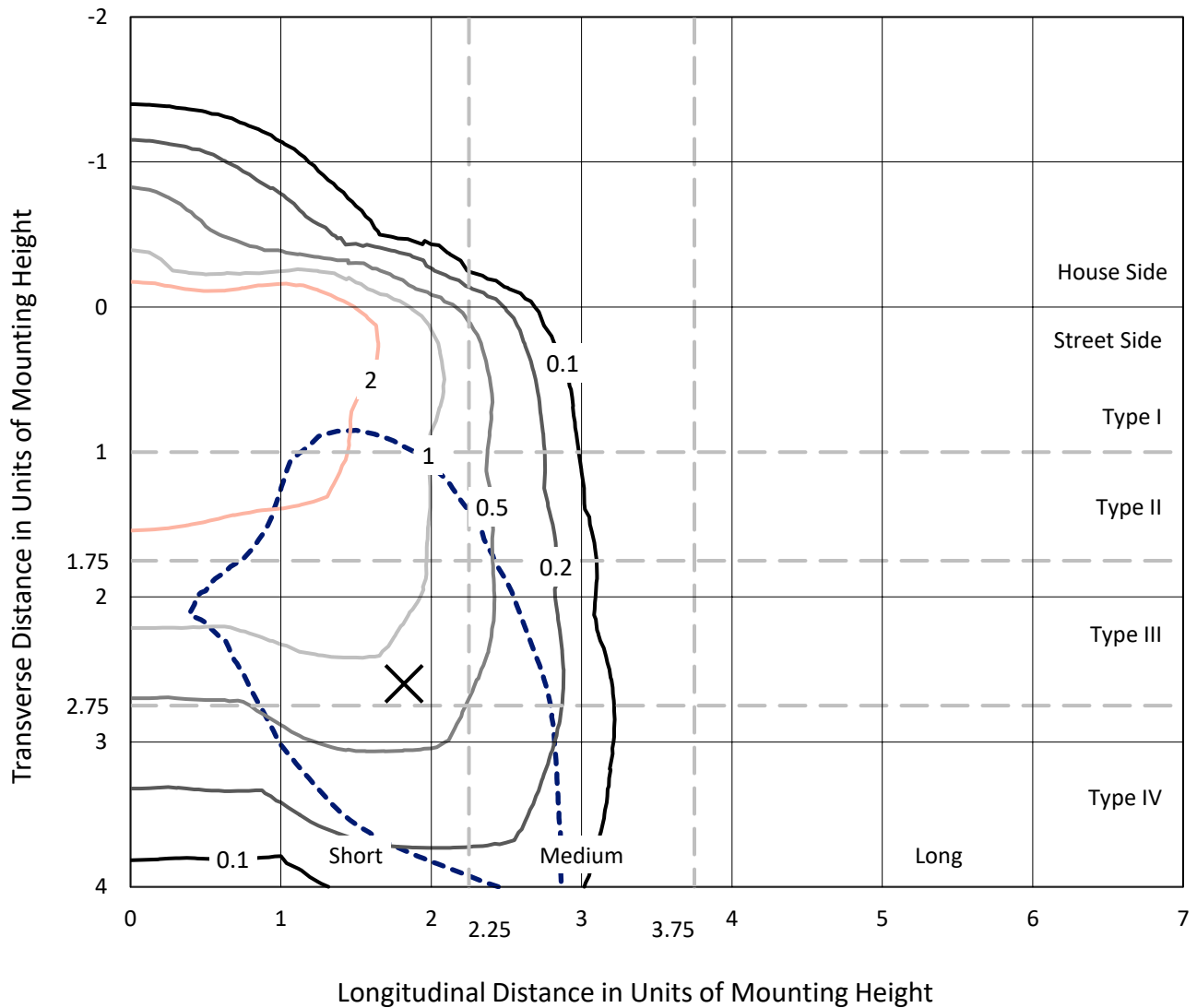
Lumens per Lamp: N/A  
Luminaire Lumens: 18078 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

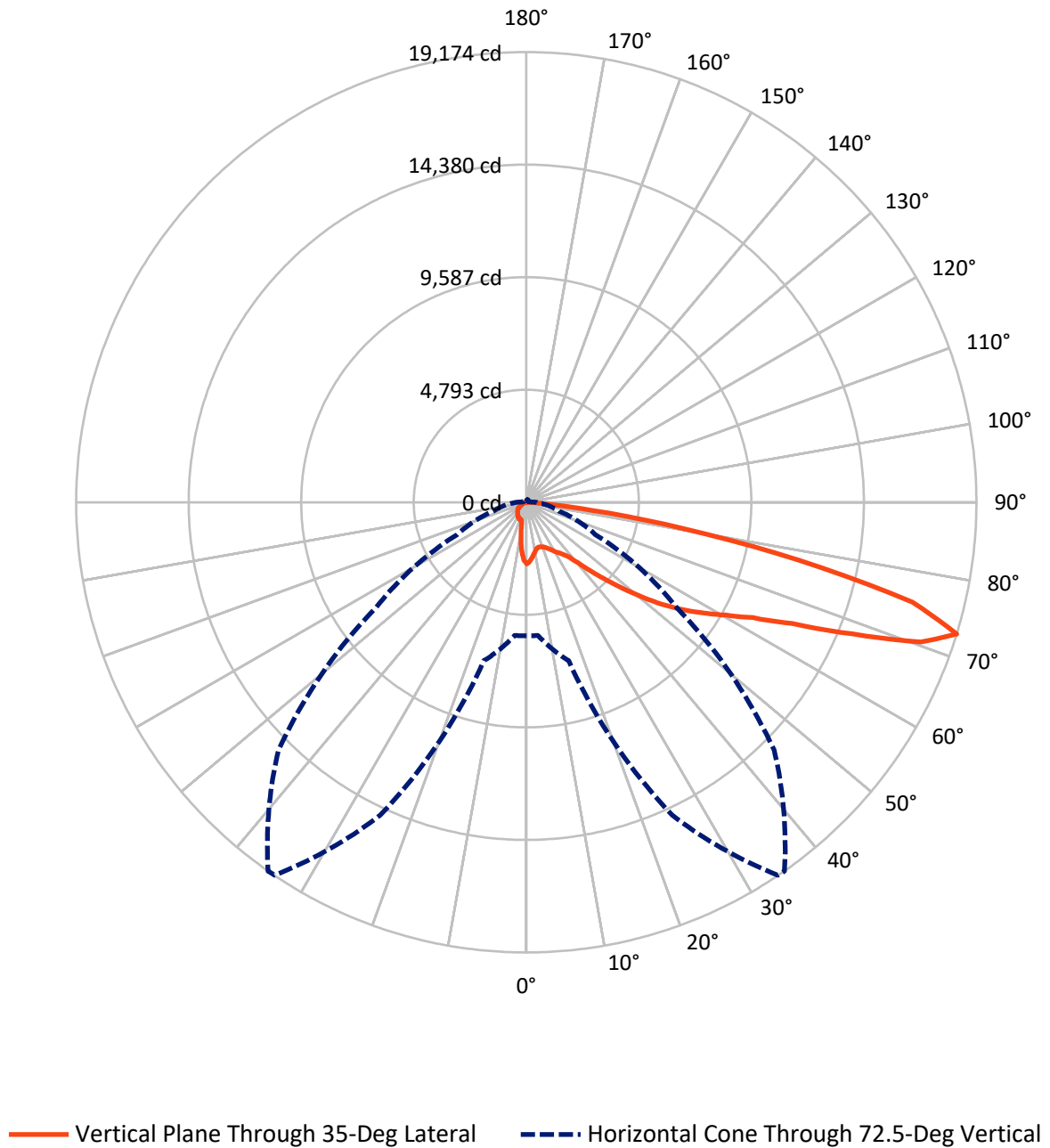
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	2034.6	0.0	2034.6
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	16043.4	0.0	16043.4
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	18078.0	0.0	18078.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.3	1.2
10°-20°	503.7	2.8
20°-30°	818.2	4.5
30°-40°	1365.2	7.6
40°-50°	2582.9	14.3
50°-60°	4104.3	22.7
60°-70°	5077.3	28.1
70°-80°	3156.1	17.5
80°-90°	255.1	1.4
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°	18078.0	100.0
0°-180°	18078.0	100.0



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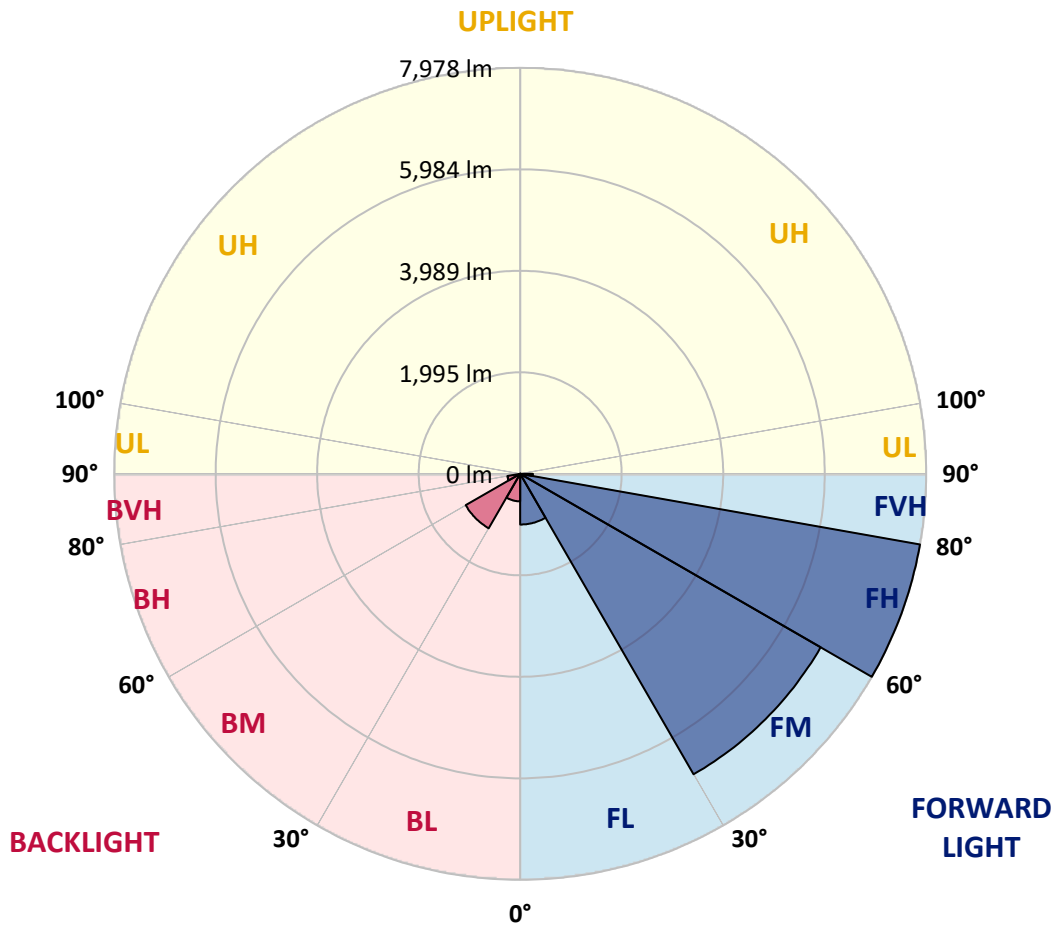
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	996.6	5.5			
FM (30°-60°)	6817.2	37.7			
FH (60°-80°)	7978.0	44.1			G4/12000
FVH (80°-90°)	251.6	1.4			G3/500
BL (0°-30°)	540.6	3.0	B2/1000		
BM (30°-60°)	1235.2	6.8	B2/2500		
BH (60°-80°)	255.3	1.4	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1
2.5°	2503.5	2524.7	2528.7	2535.3	2535.3	2543.3	2556.5	2575.1	2605.5	2621.4
5°	2307.5	2323.4	2343.3	2359.2	2389.6	2393.6	2445.3	2495.6	2565.8	2618.8
7.5°	2110.1	2128.7	2155.2	2193.6	2233.3	2245.2	2323.4	2408.2	2519.4	2618.8
10°	1971.0	1972.4	1996.2	2034.6	2098.2	2112.8	2208.1	2328.7	2467.8	2602.9
12.5°	1892.9	1902.2	1912.8	1941.9	2002.8	2012.1	2114.1	2255.8	2416.1	2593.6
15°	1892.9	1899.5	1906.1	1920.7	1969.7	1977.7	2067.7	2209.5	2389.6	2597.6
17.5°	1912.8	1923.4	1918.1	1935.3	1986.9	1992.2	2071.7	2196.2	2388.3	2622.8
20°	1960.4	1968.4	1957.8	1968.4	2020.1	2030.7	2112.8	2221.4	2410.8	2666.5
22.5°	2035.9	2039.9	2014.8	2022.7	2075.7	2088.9	2184.3	2292.9	2465.1	2736.7
25°	2131.3	2139.3	2100.9	2110.1	2160.5	2176.4	2286.3	2400.2	2551.2	2833.4
27.5°	2241.3	2245.2	2212.1	2210.8	2275.7	2298.2	2409.5	2532.7	2666.5	2955.2
30°	2367.1	2379.0	2347.2	2341.9	2424.1	2442.6	2552.6	2695.6	2836.0	3138.0
32.5°	2466.5	2475.7	2457.2	2470.4	2553.9	2568.4	2726.1	2926.1	3102.3	3397.7
35°	2609.5	2614.8	2572.4	2596.3	2691.6	2728.7	2963.2	3249.3	3437.4	3723.5
37.5°	3127.4	3127.4	2947.3	2829.4	2920.8	2953.9	3287.7	3656.0	3850.7	4160.6
40°	3844.1	3832.1	3568.5	3327.5	3315.5	3380.4	3750.0	4168.6	4384.5	4685.2
42.5°	4608.4	4589.8	4230.9	3992.4	3952.7	3975.2	4283.8	4800.4	5020.3	5325.0
45°	5286.6	5281.3	4952.8	4632.2	4560.7	4632.2	4950.1	5539.6	5697.2	6017.8
47.5°	5854.8	5854.8	5615.1	5405.8	5368.7	5411.1	5852.2	6359.5	6345.0	6755.6
50°	6509.2	6503.9	6276.1	6186.0	6224.4	6284.0	6890.7	7223.2	7015.2	7480.2
52.5°	6967.5	6999.3	6921.2	6906.6	7102.6	7206.0	7945.1	8068.3	7615.3	8167.6
55°	7330.5	7367.6	7457.6	7559.6	7937.2	8072.3	8966.4	8869.7	8117.3	8763.7
57.5°	7844.4	7791.4	7930.5	8131.9	8742.5	8905.5	9955.9	9626.1	8521.3	9247.2
60°	8468.3	8476.3	8500.1	8754.4	9546.6	9755.9	10930.8	10341.3	8780.9	9543.9
62.5°	9218.1	9230.0	9279.0	9669.8	10626.1	10823.5	11969.3	10926.8	8900.2	9460.5
65°	9166.4	9216.7	9763.8	11100.4	12267.4	12462.1	13181.3	11337.5	8720.0	8697.5
67.5°	8350.4	8432.6	9347.9	12809.1	14741.8	14959.0	14646.4	11418.3	7942.5	6763.5
70°	7280.1	7309.3	8410.0	14345.7	17606.9	17826.8	15957.8	10529.4	6027.0	3772.5
72.5°	5685.3	5691.9	6983.4	14702.0	19162.0	19173.9	14928.5	7816.6	3241.4	1449.1
75°	4061.3	4021.6	4677.3	11922.9	16858.5	16993.6	11191.8	3666.6	1238.5	684.8
77.5°	2177.7	2221.4	2646.6	7070.8	11646.1	11876.6	6106.5	1057.1	630.5	466.3
80°	672.9	710.0	1084.9	3237.4	6596.6	6735.7	2263.8	470.2	439.8	332.5
82.5°	211.9	219.9	506.0	1360.4	2738.0	2801.6	655.7	266.2	300.7	219.9
85°	60.9	62.3	225.2	507.3	676.9	690.1	184.1	103.3	172.2	136.4
87.5°	6.6	21.2	84.8	84.8	59.6	58.3	19.9	22.5	49.0	17.2
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°
2620.1	0°	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1	2620.1
2632.0	2.5°	2625.4	2626.7	2609.5	2580.4	2548.6	2522.1	2489.0	2462.5	2443.9	2438.6
2655.9	5°	2644.0	2634.7	2585.7	2496.9	2390.9	2299.5	2197.6	2116.8	2063.8	2041.2
2681.0	7.5°	2671.8	2645.3	2538.0	2363.1	2160.5	1980.3	1797.5	1655.8	1565.7	1520.7
2704.9	10°	2695.6	2642.6	2458.5	2169.7	1859.8	1586.9	1340.5	1169.6	1074.3	1029.2
2732.7	12.5°	2718.1	2641.3	2355.2	1940.6	1520.7	1186.9	957.7	872.9	846.4	837.2
2777.7	15°	2760.5	2645.3	2225.4	1678.3	1182.9	896.8	813.3	812.0	817.3	814.6
2846.6	17.5°	2818.8	2649.3	2078.3	1400.1	912.7	790.8	786.8	798.7	806.7	802.7
2932.7	20°	2894.3	2665.1	1922.0	1124.6	784.2	764.3	773.6	784.2	790.8	784.2
3048.0	22.5°	3000.3	2693.0	1751.2	903.4	743.1	748.4	756.4	768.3	774.9	765.6
3195.0	25°	3130.1	2736.7	1582.9	785.5	723.2	729.9	741.8	755.0	763.0	753.7
3380.4	27.5°	3298.3	2806.9	1427.9	759.0	703.4	707.3	724.6	744.4	755.0	743.1
3644.0	30°	3542.0	2922.1	1294.2	770.9	691.5	682.2	706.0	733.8	745.8	735.2
4003.0	32.5°	3865.3	3085.1	1212.0	789.5	686.2	653.0	675.6	711.3	731.2	724.6
4471.9	35°	4289.1	3332.8	1180.2	810.7	682.2	622.6	638.5	676.9	711.3	717.9
5062.7	37.5°	4803.1	3677.2	1189.5	819.9	670.3	597.4	605.4	638.5	683.5	704.7
5727.7	40°	5387.3	4078.5	1242.5	810.7	657.0	576.2	577.5	602.7	642.4	674.2
6443.0	42.5°	5990.0	4547.4	1340.5	776.2	645.1	557.7	553.7	570.9	597.4	619.9
7156.9	45°	6563.5	5029.6	1437.2	728.5	630.5	539.1	529.9	536.5	541.8	551.0
7852.4	47.5°	7064.2	5368.7	1409.4	684.8	610.7	517.9	502.0	499.4	483.5	482.2
8473.6	50°	7410.0	5442.9	1251.8	641.1	581.5	494.1	468.9	453.0	425.2	412.0
8938.6	52.5°	7519.9	5150.1	1022.6	597.4	533.8	462.3	426.5	401.4	366.9	355.0
9206.1	55°	7374.2	4576.6	817.3	544.4	467.6	419.9	380.2	347.1	319.2	304.7
9235.3	57.5°	7017.9	3846.7	646.4	482.2	397.4	372.2	332.5	299.4	275.5	261.0
8912.1	60°	6427.1	3054.6	511.3	408.0	339.1	320.6	279.5	258.3	237.1	219.9
8077.6	62.5°	5530.3	2180.3	401.4	323.2	283.5	262.3	238.4	222.5	197.4	173.5
6576.8	65°	4315.6	1333.9	310.0	237.1	227.8	217.2	202.7	188.1	157.6	133.8
4290.5	67.5°	2722.1	631.8	221.2	178.8	180.1	174.9	168.2	156.3	133.8	112.6
1922.0	70°	1198.8	306.0	145.7	136.4	133.8	133.8	139.1	135.1	113.9	94.0
667.6	72.5°	408.0	164.3	108.6	103.3	96.7	95.4	116.6	112.6	91.4	72.9
332.5	75°	213.3	109.9	79.5	74.2	58.3	70.2	92.7	87.4	64.9	47.7
219.9	77.5°	139.1	78.2	54.3	47.7	33.1	46.4	68.9	60.9	38.4	23.8
144.4	80°	87.4	51.7	31.8	22.5	15.9	25.2	37.1	26.5	14.6	5.3
84.8	82.5°	46.4	26.5	11.9	7.9	6.6	7.9	9.3	6.6	2.6	0.0
43.7	85°	18.5	9.3	4.0	2.6	1.3	0.0	2.6	1.3	0.0	0.0
7.9	87.5°	6.6	1.3	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>
2620.1
2447.9
2049.2
1527.3
1030.6
834.5
813.3
801.4
782.9
764.3
752.4
743.1
733.8
724.6
717.9
710.0
684.8
629.2
556.3
480.8
413.3
353.7
304.7
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