

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: P941419

Luminaire Tested: **GALN-SB4D-940-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941419  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-940-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

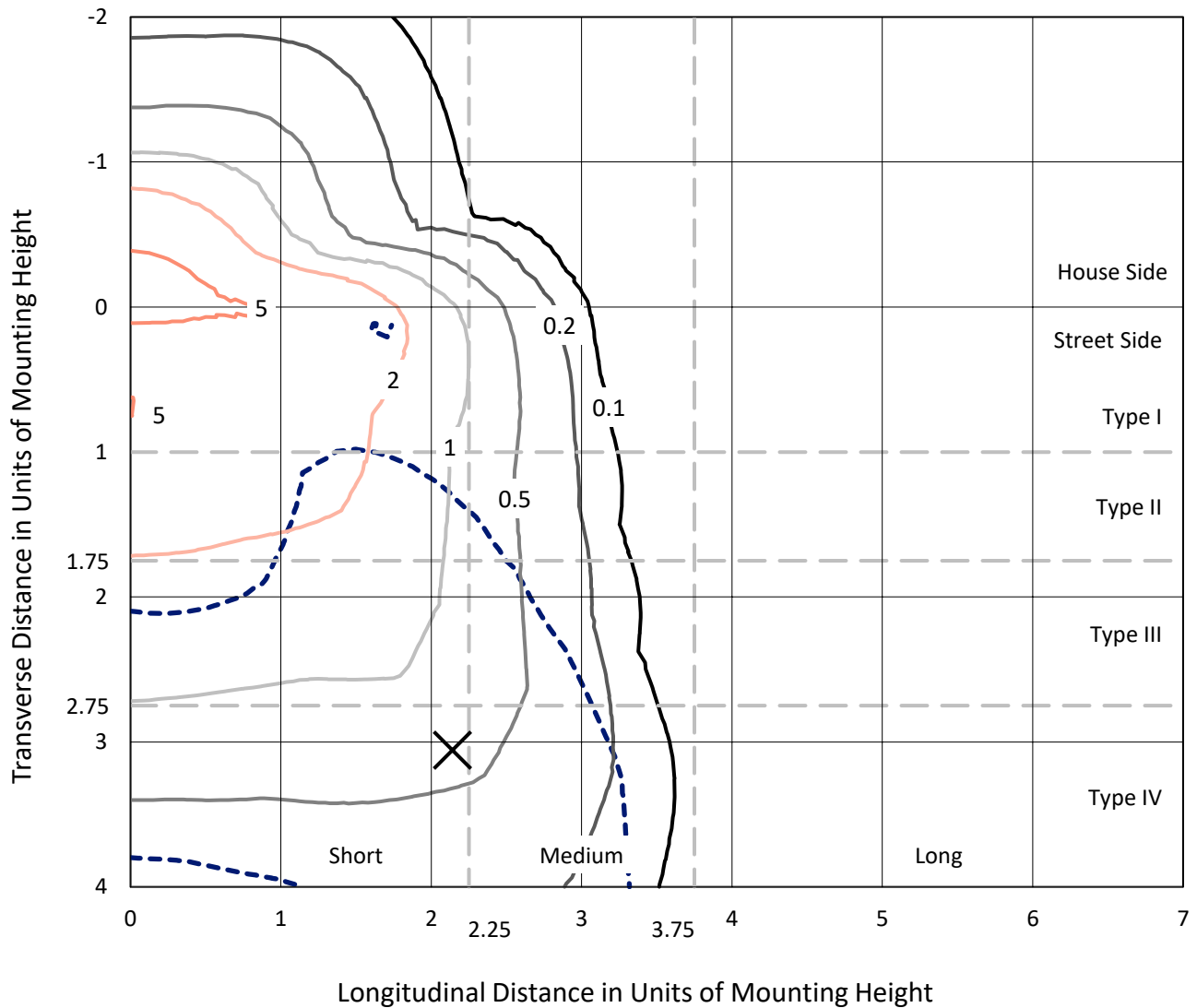
Lumens per Lamp: N/A  
Luminaire Lumens: 29209 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

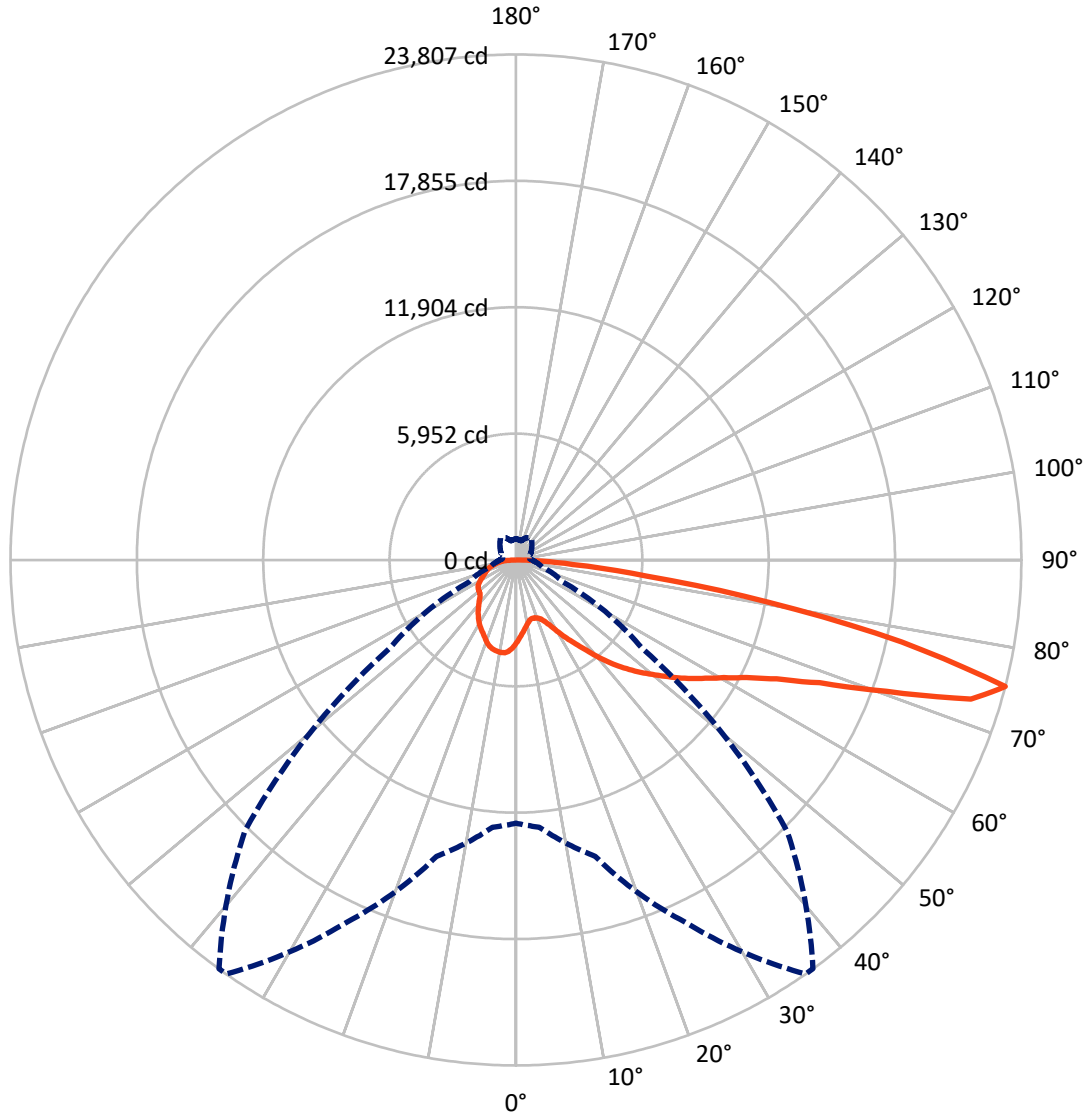
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6951.0	0.0	6951.0
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	22258.0	0.0	22258.0
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	29209.0	0.0	29209.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	368.5	1.3
10°-20°	1063.0	3.6
20°-30°	1785.0	6.1
30°-40°	2774.2	9.5
40°-50°	4117.6	14.1
50°-60°	5684.6	19.5
60°-70°	6896.7	23.6
70°-80°	5699.6	19.5
80°-90°	819.8	2.8
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°	29209.0	100.0
0°-180°	29209.0	100.0

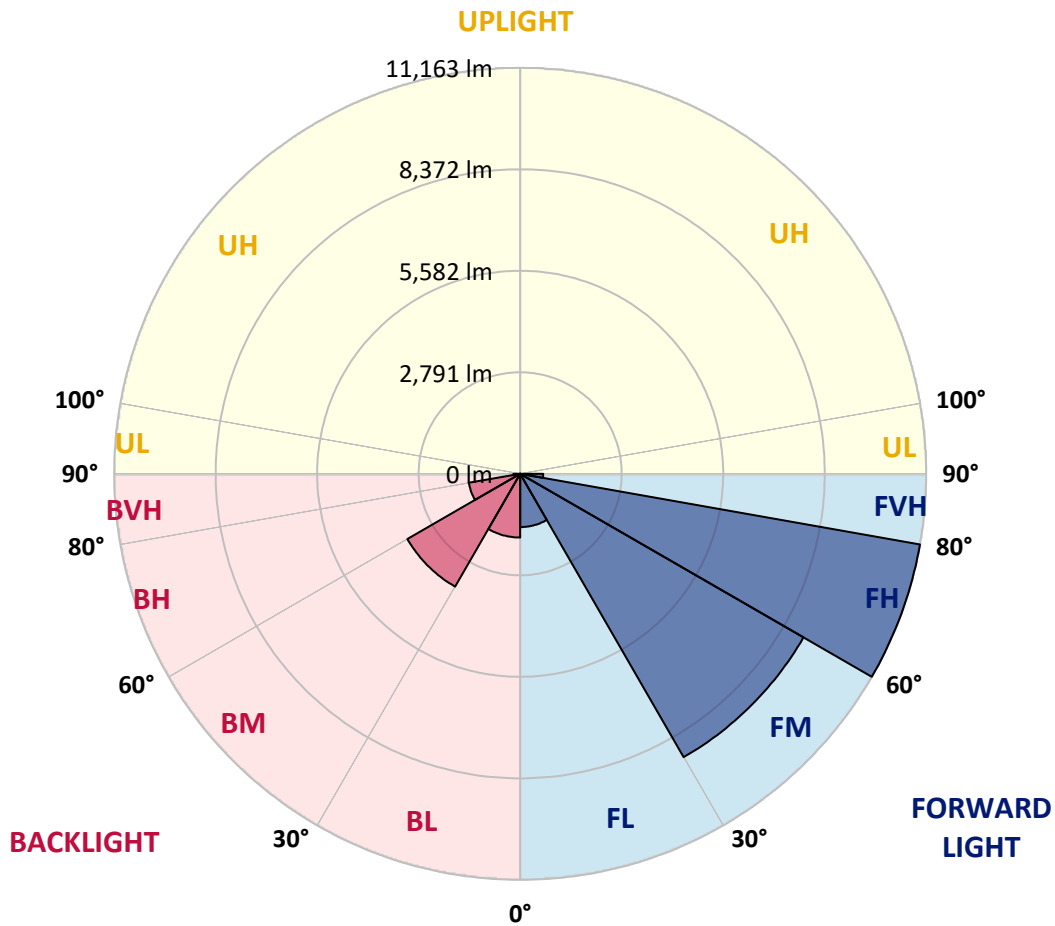


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1464.8	5.0			
FM (30°-60°)	8994.8	30.8			
FH (60°-80°)	11163.2	38.2			G4/12000
FVH (80°-90°)	635.2	2.2			G4/750
BL (0°-30°)	1751.7	6.0	B3/2500		
BM (30°-60°)	3581.6	12.3	B3/5000		
BH (60°-80°)	1433.1	4.9	B3/2500		G3/2500
BVH (80°-90°)	184.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	3892.3	3892.3	3892.3	3892.3	3892.3	3892.3	3892.3	3892.3	3892.3	3892.3
2.5°	3589.1	3611.2	3620.7	3616.0	3639.7	3636.5	3669.7	3710.7	3767.6	3822.8
5°	3312.8	3336.5	3357.0	3376.0	3421.7	3436.0	3488.1	3567.0	3671.2	3777.0
7.5°	3055.4	3075.9	3107.5	3142.3	3219.6	3233.8	3320.7	3443.9	3589.1	3743.9
10°	2845.4	2865.9	2899.1	2938.6	3034.9	3052.3	3162.8	3327.0	3516.5	3712.3
12.5°	2755.4	2761.7	2780.7	2820.1	2903.8	2914.9	3036.5	3224.4	3445.4	3688.6
15°	2750.7	2763.3	2764.9	2785.4	2854.9	2859.6	2971.7	3158.1	3401.2	3683.9
17.5°	2798.0	2807.5	2793.3	2805.9	2864.4	2872.2	2960.7	3126.5	3387.0	3704.4
20°	2924.4	2932.2	2889.6	2872.2	2914.9	2921.2	3008.0	3147.0	3401.2	3747.0
22.5°	3192.8	3197.5	3093.3	3022.3	3025.4	3028.6	3104.4	3230.7	3456.5	3824.4
25°	3611.2	3608.1	3442.3	3304.9	3225.9	3208.6	3259.1	3366.5	3549.6	3927.0
27.5°	4100.7	4077.0	3911.2	3706.0	3533.9	3508.6	3497.5	3543.3	3682.3	4062.8
30°	4653.4	4631.3	4452.9	4184.4	3946.0	3904.9	3800.7	3777.0	3879.7	4247.6
32.5°	5259.7	5245.5	5032.4	4707.1	4388.1	4340.7	4165.5	4102.3	4182.8	4527.1
35°	5768.2	5755.5	5578.7	5243.9	4853.9	4795.5	4617.1	4546.0	4587.1	4885.5
37.5°	6227.7	6221.4	6069.8	5806.1	5403.4	5332.4	5131.8	5108.1	5100.3	5357.6
40°	6654.0	6638.2	6480.3	6341.4	6042.9	5978.2	5801.3	5780.8	5720.8	5938.7
42.5°	7126.1	7085.1	6856.1	6791.4	6710.9	6657.2	6551.4	6554.5	6421.9	6594.0
45°	7511.4	7487.7	7252.5	7214.6	7301.4	7279.3	7370.9	7394.6	7137.2	7280.9
47.5°	7925.1	7903.0	7704.1	7677.2	7912.5	7918.8	8242.5	8250.4	7835.1	7994.6
50°	8435.2	8403.6	8206.2	8239.4	8503.1	8526.7	9118.9	9065.2	8477.8	8719.4
52.5°	8771.5	8790.4	8747.8	8801.5	9161.5	9183.6	9981.0	9843.6	9114.1	9434.7
55°	9019.4	9057.3	9189.9	9313.1	9856.3	9878.4	10794.2	10584.2	9641.5	10097.9
57.5°	9338.4	9284.7	9532.6	9772.6	10516.3	10574.7	11585.3	11297.9	10108.9	10669.5
60°	9796.3	9758.4	9951.0	10306.3	11255.3	11348.5	12422.2	11940.6	10451.6	11122.7
62.5°	10724.7	10630.0	10660.0	10974.2	12186.9	12310.1	13366.4	12501.1	10622.1	11299.5
65°	12112.7	11950.1	11798.5	12016.4	13499.1	13620.7	14432.3	12941.7	10558.9	10956.9
67.5°	13860.7	13699.6	13513.3	13718.6	15431.8	15528.1	15747.6	13189.6	10061.5	9636.8
70°	15302.3	15242.3	15465.0	16309.8	18518.8	18522.0	17434.0	12984.3	8698.8	6832.4
72.5°	15111.3	15075.0	16248.2	18859.9	22409.5	22325.8	19030.4	11430.6	5859.8	3082.3
75°	12396.9	12632.2	14449.7	18814.1	23807.0	23795.9	18053.0	7266.7	2423.8	1277.4
77.5°	6647.7	7020.3	9381.0	13890.7	18585.1	18864.6	12692.2	2542.2	1040.6	817.9
80°	2168.0	2493.3	3739.1	7072.5	12076.4	12024.3	5439.7	997.9	712.1	579.5
82.5°	920.6	958.5	1670.6	3339.6	6197.7	6101.4	1732.2	573.2	500.6	396.3
85°	360.0	402.7	737.4	1544.3	2684.3	2625.9	625.3	284.2	320.5	259.0
87.5°	118.4	143.7	263.7	529.0	835.3	805.3	153.2	97.9	139.0	118.4
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°
3892.3	0°	3892.3	3892.3	3892.3	3892.3	3892.3	3892.3	3892.3	3892.3	3892.3	3892.3
3903.4	2.5°	3925.5	3950.7	3980.7	4024.9	4062.8	4094.4	4127.6	4148.1	4156.0	4179.7
3909.7	5°	3953.9	4009.1	4083.4	4156.0	4227.1	4269.7	4307.6	4326.5	4343.9	4356.5
3927.0	7.5°	4001.2	4072.3	4189.2	4283.9	4343.9	4378.6	4403.9	4397.6	4403.9	4407.1
3946.0	10°	4042.3	4141.8	4280.7	4370.7	4416.5	4418.1	4411.8	4389.7	4378.6	4380.2
3974.4	12.5°	4091.3	4201.8	4351.8	4427.6	4440.2	4405.5	4378.6	4340.7	4326.5	4320.2
4017.0	15°	4157.6	4283.9	4429.2	4457.6	4426.0	4381.8	4336.0	4274.4	4242.8	4217.6
4089.7	17.5°	4238.1	4377.1	4489.2	4468.6	4400.7	4328.1	4253.9	4160.7	4096.0	4069.1
4189.2	20°	4350.2	4475.0	4535.0	4445.0	4342.3	4231.8	4105.5	3991.8	3931.8	3904.9
4315.5	22.5°	4486.0	4606.0	4579.2	4403.9	4258.6	4081.8	3923.9	3840.2	3810.2	3791.2
4478.1	25°	4648.6	4751.3	4610.8	4343.9	4121.3	3882.8	3761.2	3734.4	3720.2	3706.0
4677.1	27.5°	4860.2	4915.5	4634.4	4255.5	3906.5	3671.2	3627.0	3631.8	3627.0	3603.3
4953.4	30°	5139.7	5128.7	4656.5	4111.8	3660.2	3480.2	3483.3	3503.9	3507.0	3491.2
5338.7	32.5°	5507.6	5395.5	4667.6	3925.5	3424.9	3312.8	3316.0	3338.1	3353.8	3327.0
5842.4	35°	5952.9	5706.6	4650.2	3691.8	3243.3	3153.3	3129.6	3135.9	3140.7	3115.4
6453.5	37.5°	6472.4	6055.6	4572.9	3432.8	3093.3	2997.0	2946.5	2903.8	2878.6	2854.9
7145.1	40°	7042.5	6436.1	4430.7	3180.2	2925.9	2831.2	2755.4	2674.9	2589.6	2558.0
7877.8	42.5°	7639.3	6827.7	4258.6	2938.6	2733.3	2655.9	2575.4	2458.5	2330.6	2265.9
8638.8	45°	8258.3	7228.8	4089.7	2700.1	2535.9	2502.8	2409.6	2269.1	2130.1	2048.0
9401.5	47.5°	8864.6	7607.7	3841.8	2460.1	2351.2	2387.5	2314.9	2185.4	2030.6	1901.1
10157.9	50°	9444.1	7963.0	3436.0	2217.0	2201.2	2352.7	2283.3	2096.9	1920.1	1754.3
10900.0	52.5°	10018.9	8250.4	2916.5	1995.9	2120.6	2343.3	2242.2	2036.9	1820.6	1646.9
11597.9	55°	10506.8	8398.8	2415.9	1806.4	2003.8	2262.7	2193.3	1965.9	1680.1	1495.3
12076.4	57.5°	10784.7	8278.8	1999.0	1620.1	1842.7	2130.1	2109.6	1814.3	1512.7	1370.6
12169.5	60°	10664.7	7792.5	1658.0	1457.4	1689.6	1986.4	1964.3	1664.3	1384.8	1250.6
11670.6	62.5°	10003.1	6865.6	1388.0	1315.3	1550.6	1839.6	1819.0	1549.0	1286.9	1157.4
10345.8	65°	8670.4	5585.0	1178.0	1196.9	1410.1	1662.7	1692.7	1452.7	1209.5	1083.2
8004.1	67.5°	6613.0	4045.5	1013.7	1094.3	1272.7	1489.0	1575.9	1383.2	1144.8	1024.8
4631.3	70°	3769.1	2297.5	874.8	994.8	1151.1	1328.0	1485.9	1328.0	1075.3	975.8
1735.3	72.5°	1429.0	1054.8	756.4	895.3	1034.3	1192.2	1386.4	1241.1	994.8	920.6
896.9	75°	762.7	642.7	636.3	778.5	900.0	1059.5	1261.6	1155.8	934.8	972.7
620.6	77.5°	519.5	454.8	532.1	666.3	753.2	912.7	1129.0	1026.4	810.0	806.9
429.5	80°	360.0	322.1	432.7	536.9	582.7	767.4	985.3	881.1	660.0	615.8
265.3	82.5°	216.3	210.0	323.7	401.1	412.1	592.1	816.4	739.0	540.0	470.5
157.9	85°	118.4	124.7	206.9	235.3	240.0	413.7	639.5	571.6	415.3	349.0
56.8	87.5°	33.2	42.6	75.8	93.2	115.3	214.7	380.5	339.5	208.4	145.3
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

180°  
3892.3  
4178.1  
4359.7  
4411.8  
4383.4  
4317.1  
4225.5  
4070.7  
3901.8  
3794.4  
3706.0  
3608.1  
3499.1  
3339.6  
3132.8  
2870.7  
2572.2  
2273.8  
2041.7  
1886.9  
1740.1  
1628.0  
1479.5  
1351.6  
1231.6  
1136.9  
1062.7  
1005.8  
963.2  
907.9  
*1004.3*  
743.7  
589.0  
473.7  
352.1  
145.3  
0.0

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