

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: P950518

Luminaire Tested: **GALN-SB4D-940-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950518  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
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-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

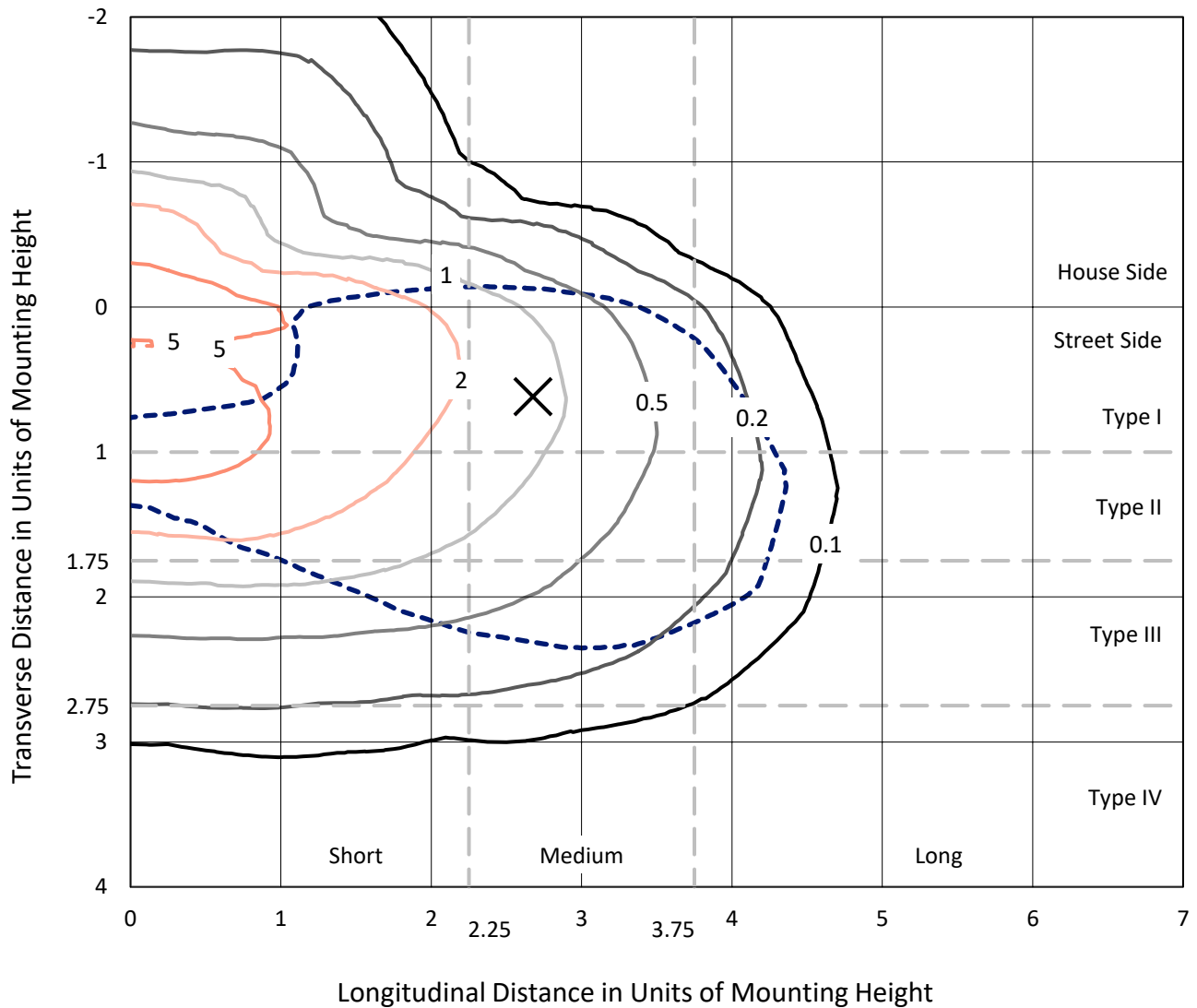
Lumens per Lamp: N/A  
Luminaire Lumens: 30339 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

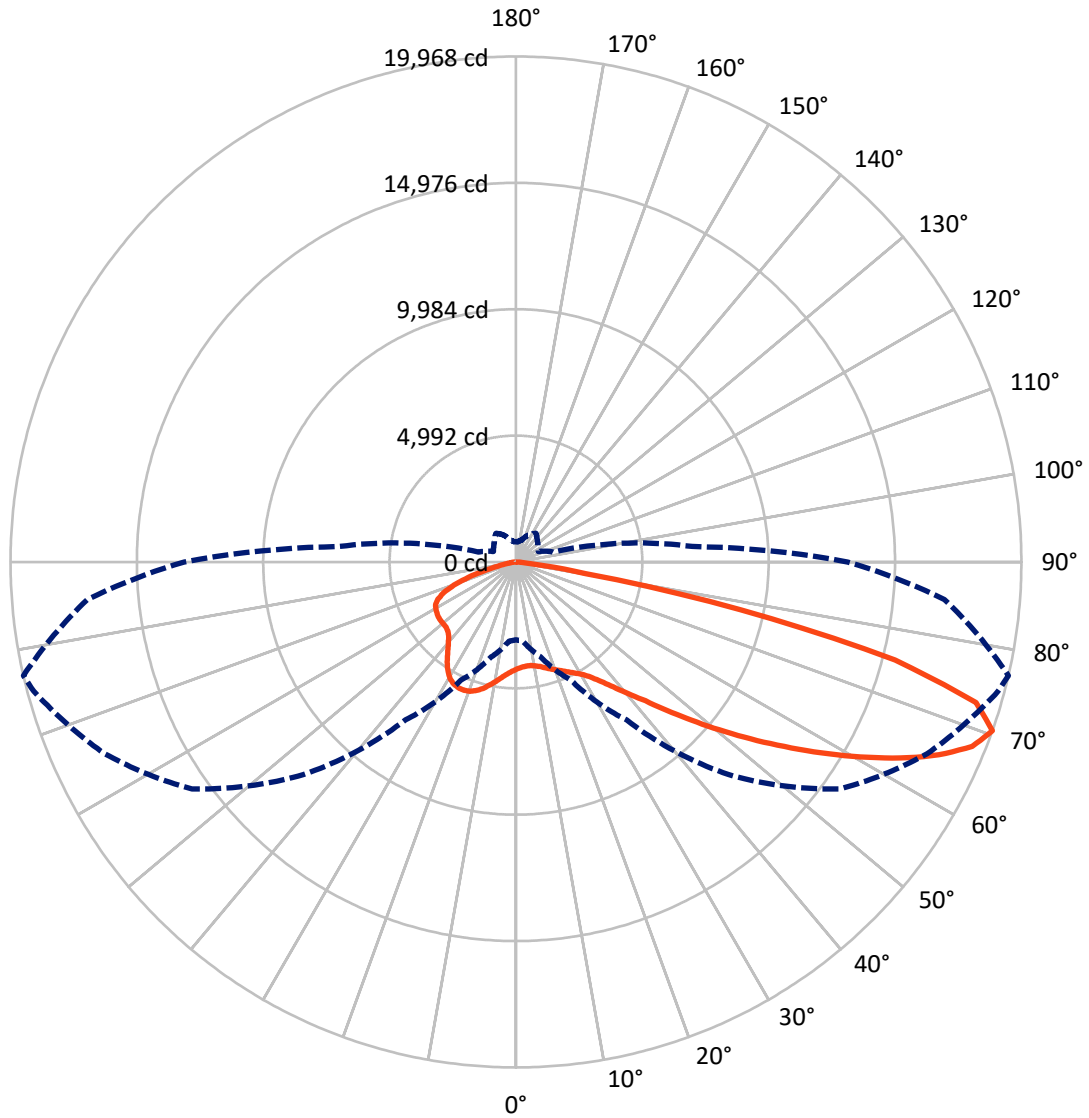
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6643.8	0.0	6643.8
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	23695.2	0.0	23695.2
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	30339.0	0.0	30339.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.7	1.3
10°-20°	1165.0	3.8
20°-30°	1992.4	6.6
30°-40°	3204.0	10.6
40°-50°	5002.2	16.5
50°-60°	6681.8	22.0
60°-70°	7121.7	23.5
70°-80°	4384.1	14.5
80°-90°	384.2	1.3
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°	30339.0	100.0
0°-180°	30339.0	100.0



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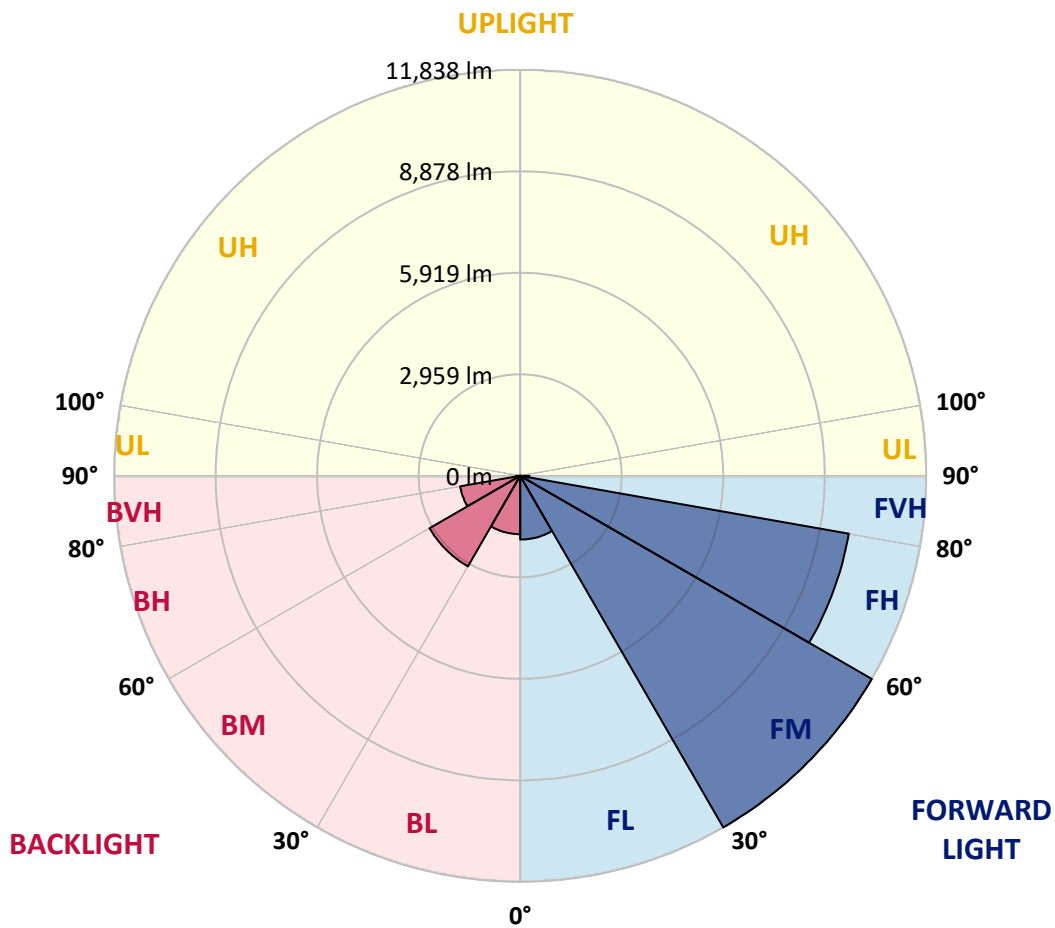
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1858.8	6.1			
FM (30°-60°)	11837.6	39.0			
FH (60°-80°)	9730.2	32.1			G4/12000
FVH (80°-90°)	268.6	0.9			G3/500
BL (0°-30°)	1702.3	5.6	B3/2500		
BM (30°-60°)	3050.3	10.1	B3/5000		
BH (60°-80°)	1775.6	5.9	B3/2500		G3/2500
BVH (80°-90°)	115.5	0.4			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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6
2.5°	3901.6	3900.1	3920.3	3926.5	3963.8	3990.2	4039.9	4092.7	4161.1	4168.9
5°	3676.3	3676.3	3699.6	3724.5	3772.6	3825.5	3901.6	3993.3	4111.4	4130.0
7.5°	3485.2	3497.6	3517.8	3566.0	3621.9	3698.1	3814.6	3945.1	4100.5	4130.0
10°	3331.4	3345.3	3370.2	3409.1	3493.0	3598.6	3750.9	3918.7	4126.9	4173.5
12.5°	3283.2	3297.2	3311.2	3340.7	3418.4	3542.7	3724.5	3931.1	4190.6	4237.2
15°	3395.1	3412.2	3401.3	3393.5	3433.9	3547.3	3736.9	3976.2	4269.9	4336.7
17.5°	3653.0	3659.2	3634.4	3561.3	3555.1	3615.7	3795.9	4038.3	4369.3	4442.3
20°	4069.4	4058.5	4007.3	3862.8	3780.4	3768.0	3896.9	4131.6	4471.9	4549.5
22.5°	4635.0	4622.6	4520.0	4291.6	4108.3	3987.1	4043.0	4252.8	4586.8	4673.8
25°	5340.4	5323.3	5172.6	4861.9	4577.5	4277.6	4241.9	4412.8	4728.2	4809.0
27.5°	6163.9	6150.0	5986.8	5576.6	5166.4	4675.4	4488.9	4600.8	4875.8	4967.5
30°	7049.6	7090.0	6801.0	6359.7	5840.8	5194.4	4821.5	4832.3	5067.0	5149.3
32.5°	8090.7	8160.6	7812.5	7253.2	6544.6	5758.4	5241.0	5155.5	5345.1	5413.5
35°	9122.4	9201.6	8912.6	8294.2	7478.5	6423.4	5679.2	5526.9	5714.9	5789.5
37.5°	10014.3	10119.9	9970.8	9433.2	8477.6	7225.2	6251.0	5963.5	6170.2	6263.4
40°	10718.2	10879.7	10868.9	10533.3	9655.3	8197.9	6976.6	6502.7	6735.7	6836.7
42.5°	11290.0	11429.8	11551.0	11533.9	10884.4	9302.6	7829.6	7203.4	7380.6	7497.1
45°	11684.6	11833.8	12094.8	12376.1	12066.9	10485.1	8807.0	8034.7	8196.3	8371.9
47.5°	12037.3	12206.7	12545.4	12991.4	13070.6	11672.2	9877.5	9002.8	9150.4	9332.2
50°	12068.4	12214.5	12739.7	13372.1	13783.8	12812.7	11027.4	10088.9	10227.2	10421.4
52.5°	11317.9	11547.9	12464.6	13361.2	14111.7	13766.7	12169.4	11218.5	11373.9	11606.9
55°	8785.2	9122.4	11658.2	12944.8	13995.1	14383.6	13255.5	12419.6	12618.5	12862.4
57.5°	7567.0	7714.6	9254.5	12186.5	13463.7	14543.6	14172.3	13633.1	13953.2	14220.4
60°	6801.0	6923.8	7834.3	11007.2	12764.5	14290.4	14880.8	14764.3	15317.4	15635.9
62.5°	5980.6	6097.1	6925.3	9190.8	11869.5	13869.3	15328.3	15808.4	16715.8	17063.9
65°	5166.4	5265.8	6059.8	7722.4	10732.1	13448.2	15559.8	16711.2	18010.2	18370.6
67.5°	4259.0	4341.3	5091.8	6515.1	9349.3	12871.7	15674.8	17421.3	19136.7	19445.9
70°	3073.4	3137.1	3912.5	5152.4	7613.6	11880.4	15628.2	17924.7	19720.9	19968.0
72.5°	1452.8	1510.3	2420.8	3345.3	5377.7	9950.6	14685.0	17525.4	19127.4	19004.6
75°	775.3	825.1	1390.7	1835.0	2840.4	6821.2	12017.1	15096.8	16061.7	15465.0
77.5°	525.2	564.0	860.8	1101.6	1297.4	3238.1	7724.0	10452.5	10056.2	9071.1
80°	416.4	456.8	705.4	745.8	627.7	1170.0	3191.5	4838.6	3475.9	2779.8
82.5°	320.1	365.1	593.6	540.7	341.8	480.1	929.2	1530.5	890.3	677.5
85°	195.8	243.9	466.1	344.9	192.7	219.1	315.4	425.7	271.9	226.9
87.5°	99.4	139.8	236.2	125.9	87.0	51.3	83.9	83.9	71.5	62.2
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°
4232.6	0°	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6	4232.6
4210.8	2.5°	4248.1	4279.2	4332.0	4381.7	4420.6	4457.9	4495.2	4515.4	4521.6	4546.4
4234.1	5°	4297.8	4355.3	4457.9	4554.2	4614.8	4652.1	4678.5	4694.0	4697.2	4704.9
4297.8	7.5°	4389.5	4481.2	4624.1	4720.5	4765.5	4762.4	4751.5	4712.7	4697.2	4683.2
4391.1	10°	4518.5	4639.7	4815.2	4882.1	4854.1	4779.5	4683.2	4569.7	4516.9	4465.6
4518.5	12.5°	4678.5	4832.3	5004.8	5001.7	4863.4	4672.3	4448.5	4274.5	4164.2	4085.0
4675.4	15°	4872.7	5049.9	5181.9	5076.3	4773.3	4429.9	4102.0	3875.2	3775.7	3688.7
4833.9	17.5°	5073.2	5262.7	5323.3	5053.0	4546.4	4071.0	3699.6	3520.9	3423.0	3376.4
5004.8	20°	5269.0	5457.0	5407.2	4919.3	4201.5	3663.9	3332.9	3235.0	3214.8	3225.7
5171.1	22.5°	5475.6	5643.4	5424.3	4661.4	3761.8	3247.5	3065.7	3068.8	3113.8	3146.5
5345.1	25°	5686.9	5800.4	5379.3	4288.5	3289.4	2941.4	2896.3	2946.0	3034.6	3098.3
5540.9	27.5°	5890.5	5940.2	5281.4	3827.0	2883.9	2722.3	2730.0	2832.6	2966.2	3054.8
5778.6	30°	6120.4	6064.5	5093.4	3308.1	2602.6	2534.3	2599.5	2719.2	2852.8	2932.0
6078.5	32.5°	6379.9	6171.7	4795.0	2827.9	2403.7	2383.5	2490.8	2568.4	2627.5	2650.8
6476.3	35°	6703.1	6322.4	4412.8	2490.8	2225.1	2273.2	2375.8	2336.9	2313.6	2301.2
7010.8	37.5°	7122.6	6526.0	3965.3	2271.7	2080.5	2194.0	2235.9	2114.7	2023.1	1978.0
7658.7	40°	7627.6	6824.3	3534.9	2102.3	1988.9	2125.6	2052.6	1906.5	1790.0	1726.3
8387.4	42.5°	8188.6	7136.6	3172.9	1974.9	1937.6	2069.7	1917.4	1743.4	1555.4	1535.2
9256.0	45°	8777.4	7458.3	2925.8	1877.0	1912.7	2021.5	1839.7	1558.5	1424.8	1507.2
10127.7	47.5°	9366.3	7753.5	2776.7	1804.0	1900.3	1967.1	1771.3	1455.9	1361.1	1480.8
11061.5	50°	10022.0	8017.6	2709.8	1751.1	1886.3	1945.4	1668.8	1429.5	1294.3	1373.6
12028.0	52.5°	10673.1	8222.7	2660.1	1698.3	1866.1	1928.3	1619.1	1398.4	1213.5	1218.2
13000.7	55°	11322.6	8356.4	2605.7	1628.4	1821.1	1891.0	1614.4	1364.2	1152.9	1131.2
14029.3	57.5°	12015.6	8432.5	2538.9	1550.7	1743.4	1796.2	1609.7	1337.8	1134.3	1098.5
15081.2	60°	12721.0	8544.4	2451.9	1455.9	1639.3	1682.8	1598.9	1328.5	1123.4	1062.8
16072.6	62.5°	13353.4	8583.2	2347.8	1365.8	1505.6	1570.9	1575.6	1320.7	1093.9	989.8
16896.1	65°	13768.3	8415.4	2166.0	1263.2	1361.1	1455.9	1530.5	1294.3	1041.0	936.9
17303.2	67.5°	13751.2	7936.8	1881.7	1131.2	1221.3	1328.5	1465.2	1249.3	977.3	871.7
16995.5	70°	13111.0	6992.1	1521.2	977.3	1067.5	1191.8	1381.3	1182.4	901.2	800.2
15112.3	72.5°	11244.9	5472.5	1104.8	797.1	888.8	1050.4	1272.6	1101.6	823.5	736.5
11168.8	75°	8033.2	3463.4	748.9	612.2	691.4	890.3	1137.4	1006.9	752.0	739.6
5593.7	77.5°	4103.6	1654.8	495.7	447.5	481.7	702.3	955.6	899.7	762.9	610.6
1591.1	80°	1334.7	610.6	312.3	304.5	320.1	467.7	739.6	738.1	578.0	414.9
385.3	82.5°	425.7	262.6	203.5	195.8	188.0	293.7	515.9	584.2	390.0	262.6
138.3	85°	169.4	156.9	119.6	110.3	79.2	138.3	270.4	388.5	290.6	189.6
35.7	87.5°	62.2	62.2	32.6	23.3	17.1	46.6	73.0	116.5	166.3	97.9
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>
4232.6
4560.4
4717.4
4686.3
4450.1
4066.3
3679.4
3390.4
3221.0
3154.2
3115.4
3076.5
2950.7
2663.2
2313.6
1988.9
1730.9
1555.4
1550.7
1536.7
1432.6
1250.8
1146.7
1103.2
1067.5
989.8
936.9
876.3
809.5
731.8
697.7
543.8
366.7
261.0
194.2
96.3
0.0

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