

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: P948859

Luminaire Tested: **GALN-SB3D-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948859
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-SB3D-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 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: 33161 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

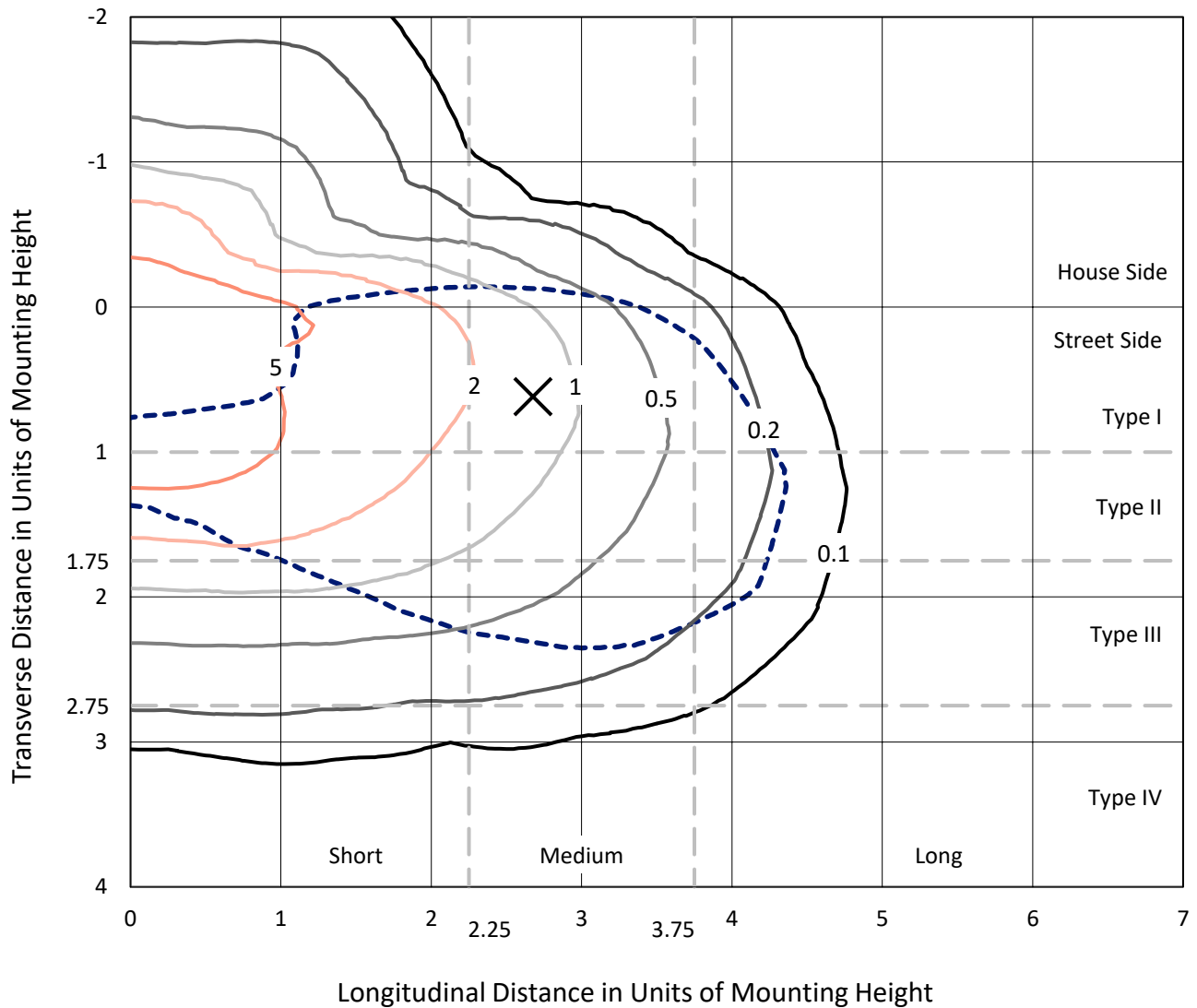
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

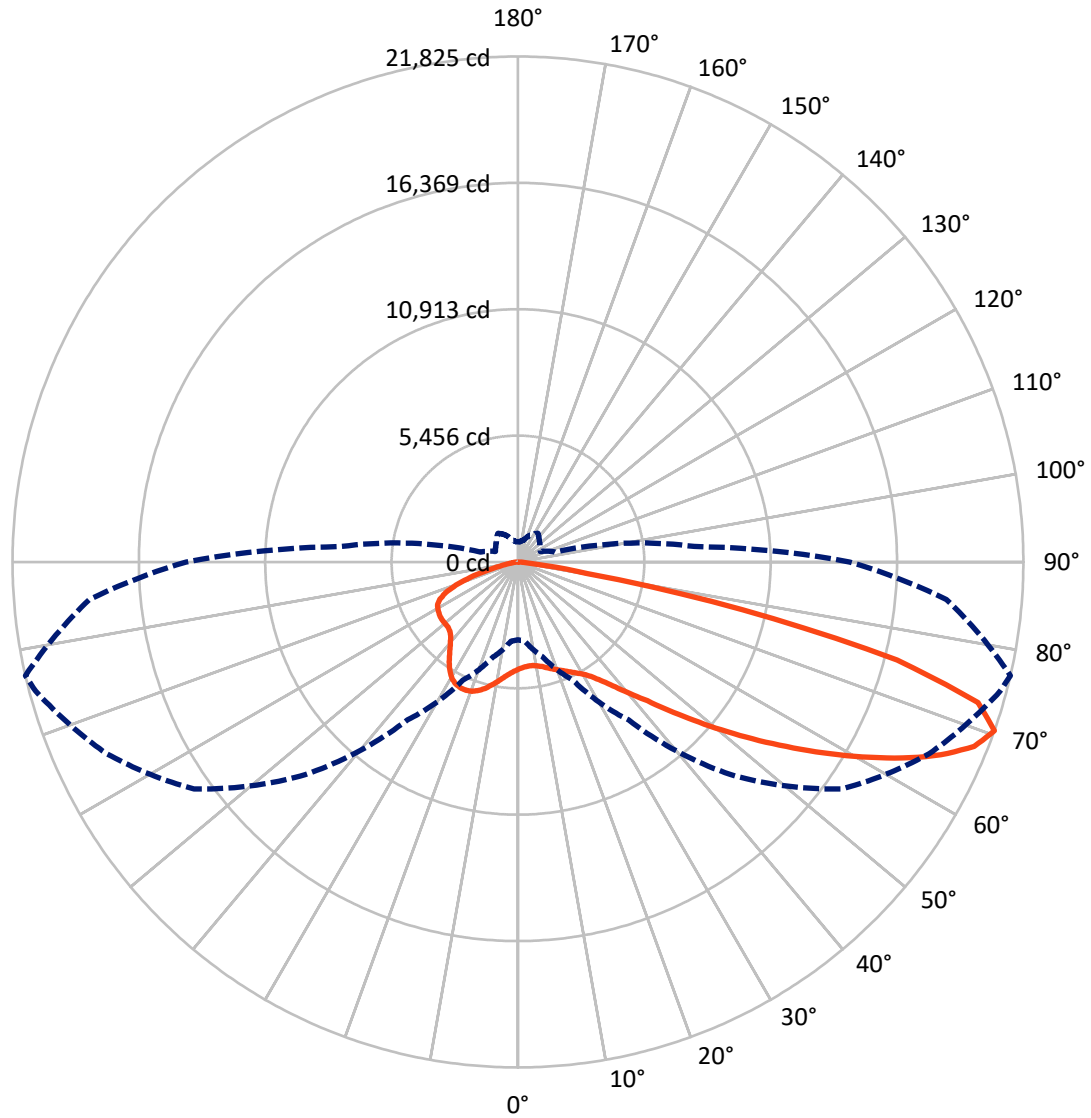
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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
House Side	Lumens	7261.7	0.0	7261.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	25899.3	0.0	25899.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	33161.0	0.0	33161.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.2	1.3
10°-20°	1273.4	3.8
20°-30°	2177.7	6.6
30°-40°	3502.0	10.6
40°-50°	5467.5	16.5
50°-60°	7303.3	22.0
60°-70°	7784.2	23.5
70°-80°	4791.9	14.5
80°-90°	419.9	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°	33161.0	100.0
0°-180°	33161.0	100.0



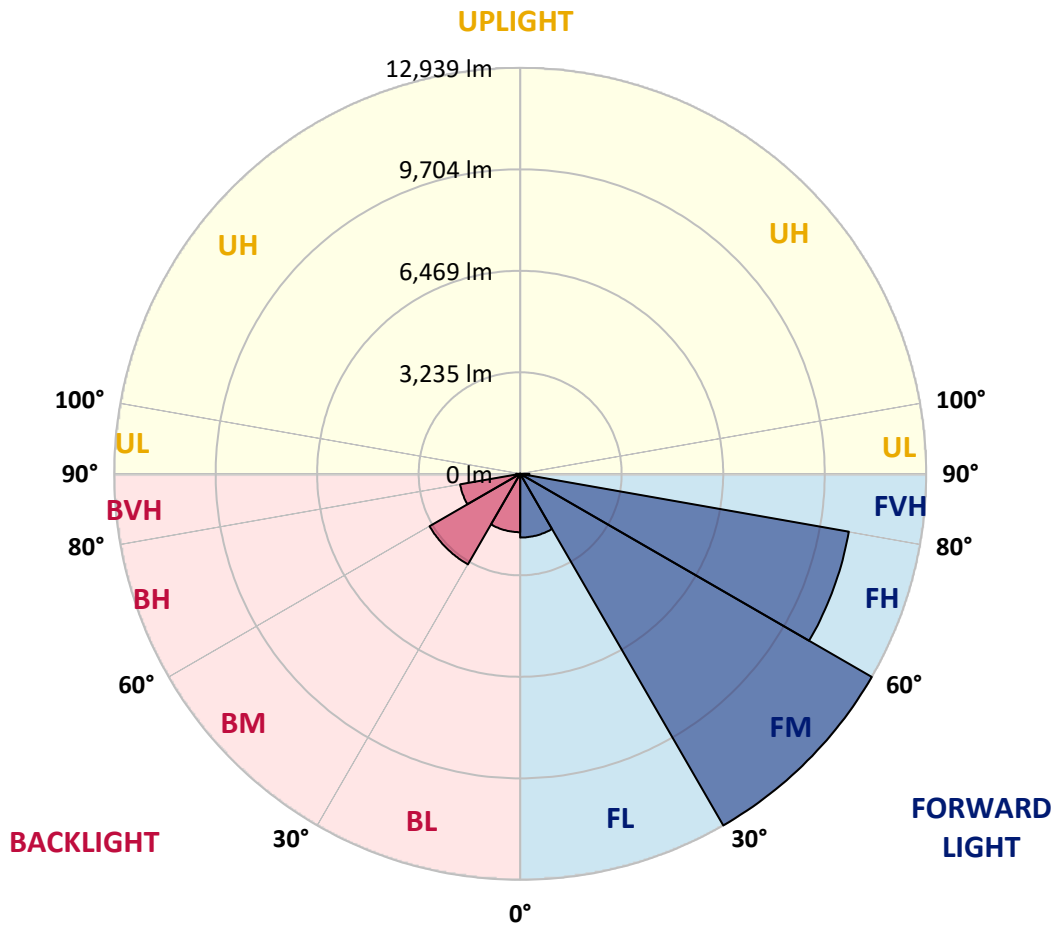
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2031.6	6.1			
FM (30°-60°)	12938.7	39.0			
FH (60°-80°)	10635.3	32.1			G4/12000
FVH (80°-90°)	293.6	0.9			G3/500
BL (0°-30°)	1860.7	5.6	B3/2500		
BM (30°-60°)	3334.0	10.1	B3/5000		
BH (60°-80°)	1940.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	126.3	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°	4626.3	4626.3	4626.3	4626.3	4626.3	4626.3	4626.3	4626.3	4626.3	4626.3
2.5°	4264.5	4262.8	4284.9	4291.7	4332.5	4361.3	4415.7	4473.4	4548.1	4556.6
5°	4018.3	4018.3	4043.7	4070.9	4123.6	4181.3	4264.5	4364.7	4493.8	4514.2
7.5°	3809.4	3822.9	3845.0	3897.7	3958.8	4042.0	4169.4	4312.1	4481.9	4514.2
10°	3641.2	3656.5	3683.7	3726.1	3817.9	3933.3	4099.8	4283.2	4510.8	4561.7
12.5°	3588.6	3603.9	3619.1	3651.4	3736.3	3872.2	4070.9	4296.8	4580.4	4631.4
15°	3710.9	3729.5	3717.7	3709.2	3753.3	3877.3	4084.5	4346.0	4667.0	4740.1
17.5°	3992.8	3999.6	3972.4	3892.6	3885.8	3952.0	4149.0	4414.0	4775.7	4855.5
20°	4447.9	4436.0	4380.0	4222.1	4132.0	4118.5	4259.4	4515.9	4887.8	4972.7
22.5°	5066.1	5052.5	4940.5	4690.8	4490.4	4357.9	4419.1	4648.3	5013.5	5108.6
25°	5837.2	5818.5	5653.8	5314.1	5003.3	4675.5	4636.5	4823.3	5168.0	5256.3
27.5°	6737.3	6722.0	6543.7	6095.3	5647.0	5110.3	4906.5	5028.8	5329.4	5429.6
30°	7705.3	7749.5	7433.6	6951.3	6384.0	5677.5	5269.9	5281.8	5538.3	5628.3
32.5°	8843.2	8919.7	8539.2	7927.8	7153.4	6294.0	5728.5	5635.1	5842.3	5917.0
35°	9970.9	10057.5	9741.6	9065.7	8174.1	7020.9	6207.4	6041.0	6246.5	6328.0
37.5°	10945.8	11061.2	10898.2	10310.6	9266.1	7897.3	6832.4	6518.2	6744.1	6846.0
40°	11715.1	11891.7	11879.8	11513.0	10553.4	8960.4	7625.5	7107.5	7362.3	7472.7
42.5°	12340.1	12492.9	12625.4	12606.7	11896.8	10167.9	8557.9	7873.5	8067.1	8194.5
45°	12771.5	12934.5	13219.8	13527.2	13189.3	11460.4	9626.2	8782.1	8958.7	9150.6
47.5°	13157.0	13342.1	13712.3	14199.8	14286.4	12757.9	10796.3	9840.1	10001.5	10200.2
50°	13191.0	13350.6	13924.6	14615.9	15065.9	14004.5	12053.1	11027.3	11178.4	11390.7
52.5°	12370.7	12622.0	13624.0	14604.0	15424.3	15047.2	13301.4	12262.0	12431.8	12686.6
55°	9602.4	9970.9	12742.6	14148.8	15296.9	15721.5	14488.5	13574.8	13792.2	14058.8
57.5°	8270.9	8432.2	10115.3	13320.0	14716.1	15896.4	15490.5	14901.2	15251.0	15543.2
60°	7433.6	7567.8	8563.0	12031.0	13951.8	15619.6	16264.9	16137.6	16742.2	17090.3
62.5°	6536.9	6664.3	7569.5	10045.6	12973.6	15159.3	16754.1	17278.9	18270.7	18651.1
65°	5647.0	5755.7	6623.5	8440.7	11730.4	14699.1	17007.1	18265.6	19685.4	20079.4
67.5°	4655.1	4745.1	5565.4	7121.1	10218.9	14069.0	17132.8	19041.7	20916.7	21254.7
70°	3359.3	3428.9	4276.4	5631.7	8321.8	12985.5	17081.8	19592.0	21555.3	21825.3
72.5°	1587.9	1650.8	2646.0	3656.5	5877.9	10876.1	16051.0	19155.5	20906.5	20772.3
75°	847.5	901.8	1520.0	2005.7	3104.6	7455.7	13134.9	16501.0	17555.7	16903.5
77.5°	574.0	616.5	940.9	1204.1	1418.1	3539.3	8442.4	11424.7	10991.6	9914.9
80°	455.2	499.3	771.0	815.2	686.1	1278.8	3488.4	5288.6	3799.2	3038.3
82.5°	349.9	399.1	648.8	591.0	373.6	524.8	1015.6	1672.9	973.1	740.5
85°	214.0	266.6	509.5	377.0	210.6	239.5	344.8	465.3	297.2	248.0
87.5°	108.7	152.9	258.1	137.6	95.1	56.0	91.7	91.7	78.1	67.9
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°
4626.3	0°	4626.3	4626.3	4626.3	4626.3	4626.3	4626.3	4626.3	4626.3	4626.3	4626.3
4602.5	2.5°	4643.2	4677.2	4735.0	4789.3	4831.8	4872.5	4913.3	4935.4	4942.2	4969.3
4628.0	5°	4697.6	4760.4	4872.5	4977.8	5044.1	5084.8	5113.7	5130.7	5134.1	5142.6
4697.6	7.5°	4797.8	4898.0	5054.2	5159.5	5208.8	5205.4	5193.5	5151.0	5134.1	5118.8
4799.5	10°	4938.8	5071.2	5263.1	5336.2	5305.6	5224.1	5118.8	4994.8	4937.1	4881.0
4938.8	12.5°	5113.7	5281.8	5470.3	5466.9	5315.8	5106.9	4862.3	4672.1	4551.5	4464.9
5110.3	15°	5326.0	5519.6	5663.9	5548.5	5217.3	4842.0	4483.6	4235.6	4127.0	4031.8
5283.5	17.5°	5545.1	5752.3	5818.5	5523.0	4969.3	4449.6	4043.7	3848.4	3741.4	3690.5
5470.3	20°	5759.1	5964.5	5910.2	5376.9	4592.3	4004.7	3642.9	3535.9	3513.9	3525.7
5652.1	22.5°	5984.9	6168.3	5928.9	5095.0	4111.7	3549.5	3350.8	3354.2	3403.5	3439.1
5842.3	25°	6215.9	6339.9	5879.6	4687.4	3595.4	3214.9	3165.7	3220.0	3316.8	3386.5
6056.3	27.5°	6438.4	6492.7	5772.6	4183.0	3152.1	2975.5	2984.0	3096.1	3242.1	3338.9
6316.1	30°	6689.7	6628.6	5567.1	3615.8	2844.7	2770.0	2841.3	2972.1	3118.1	3204.8
6643.9	32.5°	6973.4	6745.8	5241.1	3091.0	2627.3	2605.2	2722.4	2807.3	2871.9	2897.4
7078.7	35°	7326.6	6910.5	4823.3	2722.4	2432.0	2484.7	2596.8	2554.3	2528.8	2515.2
7662.9	37.5°	7785.2	7133.0	4334.1	2483.0	2274.1	2398.0	2443.9	2311.4	2211.2	2162.0
8371.1	40°	8337.1	7459.1	3863.7	2297.8	2173.9	2323.3	2243.5	2083.9	1956.5	1886.8
9167.6	42.5°	8950.2	7800.4	3468.0	2158.6	2117.8	2262.2	2095.7	1905.5	1700.0	1678.0
10117.0	45°	9593.9	8152.0	3198.0	2051.6	2090.6	2209.5	2010.8	1703.4	1557.4	1647.4
11069.7	47.5°	10237.6	8474.7	3034.9	1971.8	2077.1	2150.1	1936.1	1591.3	1487.7	1618.5
12090.4	50°	10954.3	8763.4	2961.9	1914.0	2061.8	2126.3	1824.0	1562.5	1414.7	1501.3
13146.8	52.5°	11665.9	8987.6	2907.5	1856.3	2039.7	2107.6	1769.7	1528.5	1326.4	1331.5
14210.0	55°	12375.8	9133.6	2848.1	1779.9	1990.4	2066.9	1764.6	1491.1	1260.2	1236.4
15334.3	57.5°	13133.2	9216.9	2775.1	1694.9	1905.5	1963.3	1759.5	1462.3	1239.8	1200.7
16484.0	60°	13904.3	9339.1	2680.0	1591.3	1791.7	1839.3	1747.6	1452.1	1227.9	1161.7
17567.6	62.5°	14595.5	9381.6	2566.2	1492.8	1645.7	1717.0	1722.1	1443.6	1195.6	1081.8
18467.7	65°	15048.9	9198.2	2367.5	1380.7	1487.7	1591.3	1672.9	1414.7	1137.9	1024.1
18912.6	67.5°	15030.3	8675.1	2056.7	1236.4	1334.9	1452.1	1601.5	1365.5	1068.3	952.8
18576.4	70°	14330.5	7642.5	1662.7	1068.3	1166.8	1302.6	1509.8	1292.4	985.0	874.6
16518.0	72.5°	12290.8	5981.5	1207.5	871.2	971.4	1148.1	1390.9	1204.1	900.1	805.0
12207.6	75°	8780.4	3785.6	818.6	669.1	755.8	973.1	1243.2	1100.5	822.0	808.4
6114.0	77.5°	4485.3	1808.7	541.8	489.1	526.5	767.6	1044.5	983.3	833.9	667.4
1739.1	80°	1458.9	667.4	341.4	332.9	349.9	511.2	808.4	806.7	631.8	453.5
421.2	82.5°	465.3	287.0	222.5	214.0	205.5	321.0	563.8	638.6	426.3	287.0
151.2	85°	185.1	171.5	130.8	120.6	86.6	151.2	295.5	424.6	317.6	207.2
39.1	87.5°	67.9	67.9	35.7	25.5	18.7	51.0	79.8	127.4	181.7	107.0
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>
4626.3
4984.6
5156.1
5122.2
4864.0
4444.5
4021.7
3705.8
3520.6
3447.6
3405.2
3362.7
3225.1
2910.9
2528.8
2173.9
1891.9
1700.0
1694.9
1679.7
1565.9
1367.2
1253.4
1205.8
1166.8
1081.8
1024.1
957.9
<i>884.8</i>
799.9
762.6
594.4
400.8
285.3
212.3
105.3
0.0

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