

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: P954382

Luminaire Tested: **GALN-SB7C-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954382
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-SB7C-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33281 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

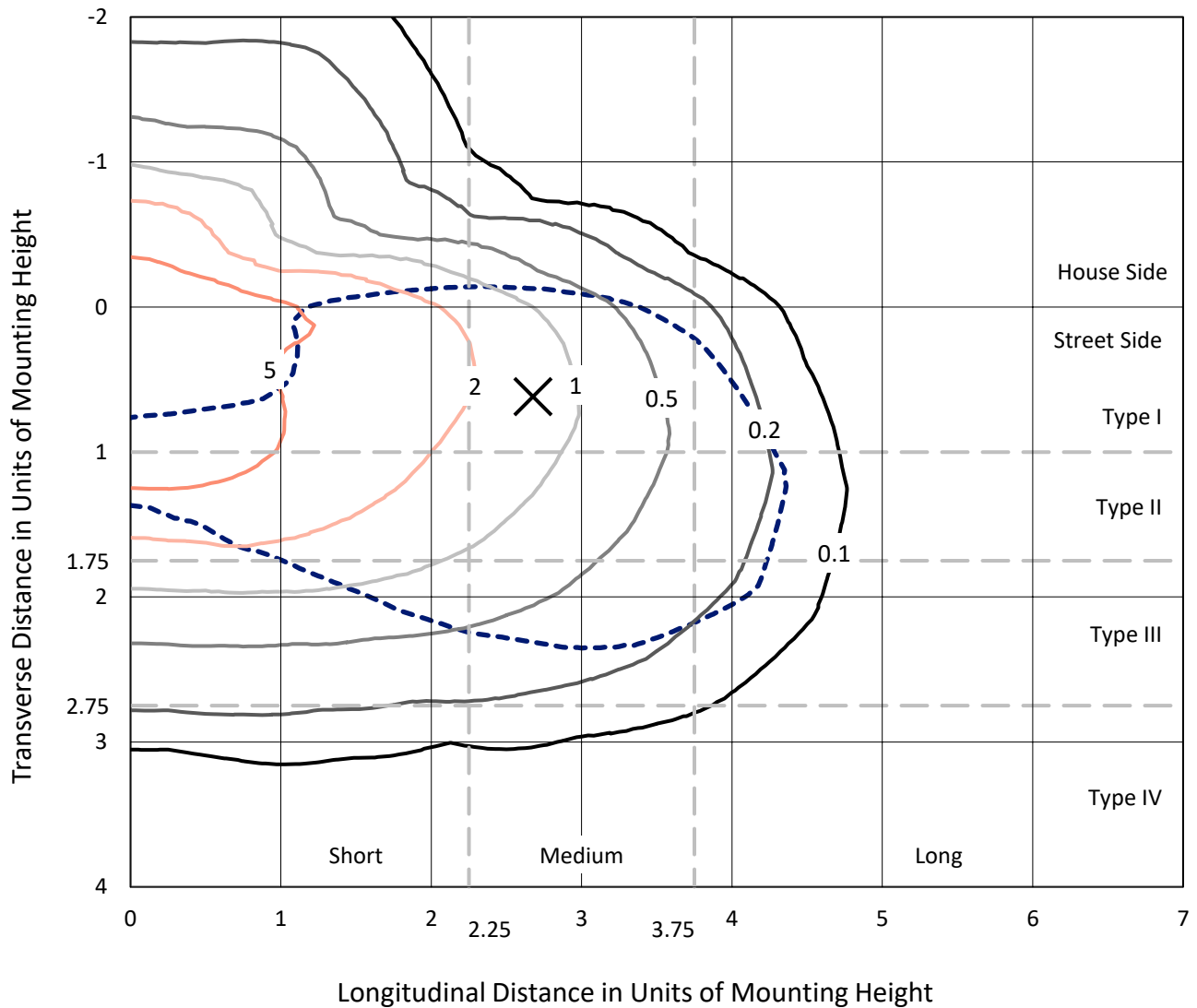
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

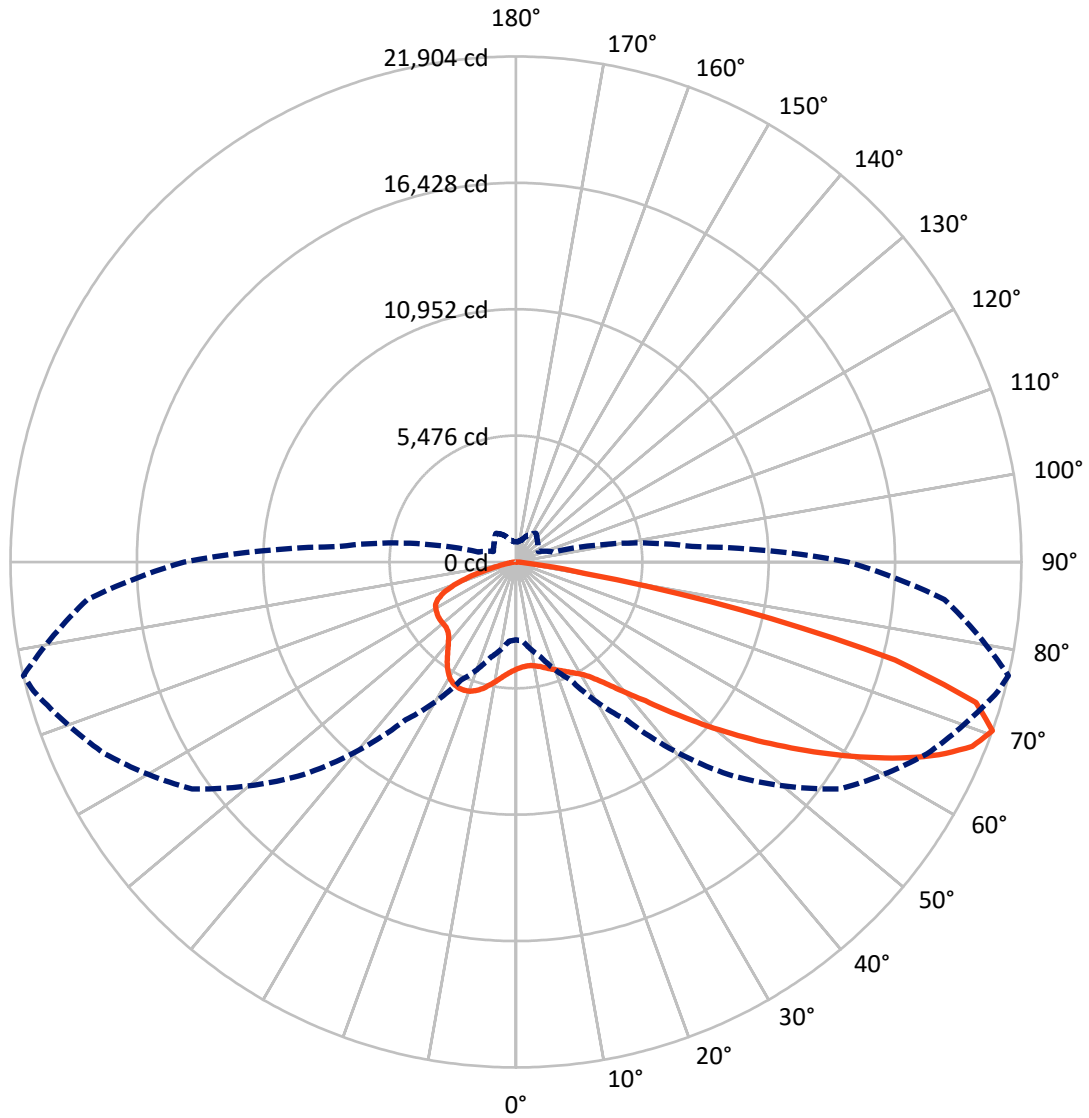
× Max cd
 - - - 1/2 Max cd



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	7288.0	0.0	7288.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	25993.0	0.0	25993.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	33281.0	0.0	33281.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.8	1.3
10°-20°	1278.0	3.8
20°-30°	2185.6	6.6
30°-40°	3514.6	10.6
40°-50°	5487.3	16.5
50°-60°	7329.7	22.0
60°-70°	7812.3	23.5
70°-80°	4809.2	14.5
80°-90°	421.4	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°	33281.0	100.0
0°-180°	33281.0	100.0



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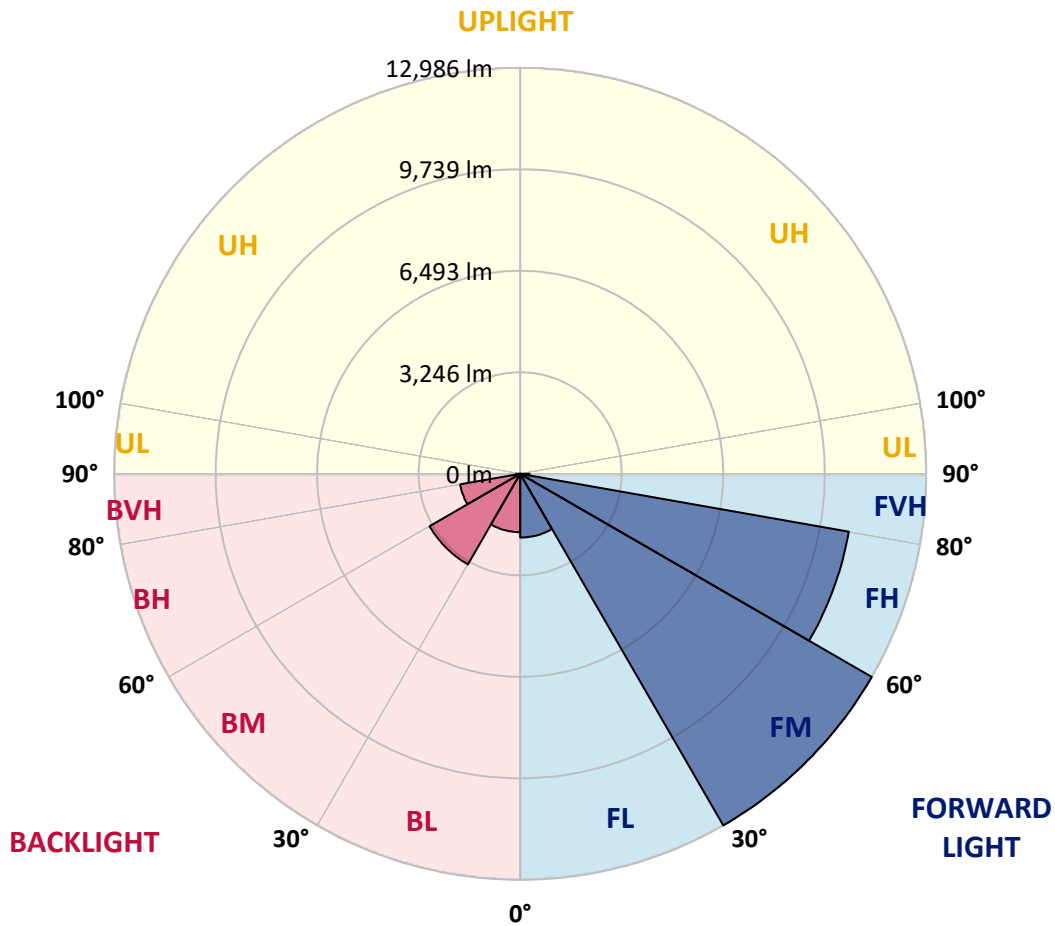
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2039.0	6.1			
FM (30°-60°)	12985.5	39.0			
FH (60°-80°)	10673.8	32.1			G4/12000
FVH (80°-90°)	294.7	0.9			G3/500
BL (0°-30°)	1867.4	5.6	B3/2500		
BM (30°-60°)	3346.1	10.1	B3/5000		
BH (60°-80°)	1947.8	5.9	B3/2500		G3/2500
BVH (80°-90°)	126.7	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°	4643.0	4643.0	4643.0	4643.0	4643.0	4643.0	4643.0	4643.0	4643.0	4643.0
2.5°	4279.9	4278.2	4300.4	4307.2	4348.1	4377.1	4431.6	4489.6	4564.6	4573.1
5°	4032.8	4032.8	4058.4	4085.6	4138.5	4196.4	4279.9	4380.5	4510.1	4530.5
7.5°	3823.1	3836.8	3858.9	3911.8	3973.1	4056.7	4184.5	4327.7	4498.1	4530.5
10°	3654.4	3669.7	3697.0	3739.6	3831.7	3947.6	4114.6	4298.7	4527.1	4578.2
12.5°	3601.6	3616.9	3632.2	3664.6	3749.9	3886.2	4085.6	4312.3	4597.0	4648.1
15°	3724.3	3743.0	3731.1	3722.6	3766.9	3891.3	4099.3	4361.8	4683.9	4757.2
17.5°	4007.2	4014.1	3986.8	3906.7	3899.8	3966.3	4164.0	4429.9	4793.0	4873.1
20°	4464.0	4452.1	4395.9	4237.3	4147.0	4133.4	4274.8	4532.2	4905.5	4990.7
22.5°	5084.5	5070.8	4958.3	4707.8	4506.6	4373.7	4435.1	4665.2	5031.6	5127.1
25°	5858.3	5839.5	5674.2	5333.3	5021.4	4692.4	4653.2	4840.7	5186.7	5275.4
27.5°	6761.7	6746.3	6567.4	6117.4	5667.4	5128.8	4924.2	5047.0	5348.7	5449.2
30°	7733.2	7777.5	7460.5	6976.4	6407.1	5698.1	5289.0	5300.9	5558.3	5648.6
32.5°	8875.2	8951.9	8570.1	7956.5	7179.3	6316.8	5749.2	5655.5	5863.4	5938.4
35°	10007.0	10093.9	9776.9	9098.5	8203.7	7046.3	6229.9	6062.8	6269.1	6350.9
37.5°	10985.4	11101.3	10937.6	10347.9	9299.6	7925.8	6857.1	6541.8	6768.5	6870.8
40°	11757.5	11934.8	11922.8	11554.7	10591.6	8992.8	7653.1	7133.2	7388.9	7499.7
42.5°	12384.8	12538.2	12671.1	12652.4	11939.9	10204.7	8588.9	7902.0	8096.3	8224.1
45°	12817.7	12981.3	13267.7	13576.2	13237.0	11501.8	9661.0	8813.9	8991.1	9183.7
47.5°	13204.6	13390.4	13762.0	14251.2	14338.1	12804.1	10835.4	9875.8	10037.7	10237.1
50°	13238.7	13398.9	13975.0	14668.8	15120.4	14055.1	12096.7	11067.2	11218.9	11431.9
52.5°	12415.4	12667.7	13673.3	14656.8	15480.1	15101.7	13349.5	12306.3	12476.8	12732.5
55°	9637.1	10007.0	12788.7	14200.0	15352.3	15778.4	14540.9	13623.9	13842.1	14109.7
57.5°	8300.8	8462.7	10151.9	13368.2	14769.3	15953.9	15546.6	14955.1	15306.2	15599.4
60°	7460.5	7595.2	8594.0	12074.5	14002.3	15676.1	16323.8	16196.0	16802.8	17152.2
62.5°	6560.5	6688.4	7596.9	10082.0	13020.5	15214.2	16814.7	17341.4	18336.8	18718.6
65°	5667.4	5776.5	6647.5	8471.3	11772.8	14752.3	17068.7	18331.7	19756.6	20152.1
67.5°	4672.0	4762.3	5585.6	7146.9	10255.9	14119.9	17194.8	19110.6	20992.4	21331.6
70°	3371.5	3441.3	4291.9	5652.1	8352.0	13032.5	17143.7	19662.9	21633.3	21904.3
72.5°	1593.7	1656.8	2655.6	3669.7	5899.2	10915.5	16109.0	19224.8	20982.1	20847.5
75°	850.5	905.1	1525.5	2013.0	3115.8	7482.7	13182.4	16560.7	17619.2	16964.7
77.5°	576.1	618.7	944.3	1208.5	1423.2	3552.1	8473.0	11466.0	11031.4	9950.8
80°	456.8	501.1	773.8	818.2	688.6	1283.5	3501.0	5307.8	3812.9	3049.3
82.5°	351.1	400.6	651.1	593.2	375.0	526.7	1019.3	1678.9	976.7	743.2
85°	214.8	267.6	511.3	378.4	211.4	240.3	346.0	467.0	298.3	248.9
87.5°	109.1	153.4	259.1	138.1	95.5	56.2	92.0	92.0	78.4	68.2
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°
4643.0	0°	4643.0	4643.0	4643.0	4643.0	4643.0	4643.0	4643.0	4643.0	4643.0	4643.0
4619.1	2.5°	4660.0	4694.1	4752.1	4806.6	4849.2	4890.2	4931.1	4953.2	4960.0	4987.3
4644.7	5°	4714.6	4777.7	4890.2	4995.8	5062.3	5103.2	5132.2	5149.2	5152.6	5161.2
4714.6	7.5°	4815.2	4915.7	5072.5	5178.2	5227.6	5224.2	5212.3	5169.7	5152.6	5137.3
4816.9	10°	4956.6	5089.6	5282.2	5355.5	5324.8	5243.0	5137.3	5012.9	4954.9	4898.7
4956.6	12.5°	5132.2	5300.9	5490.1	5486.7	5335.0	5125.4	4879.9	4689.0	4568.0	4481.1
5128.8	15°	5345.2	5539.6	5684.4	5568.5	5236.2	4859.5	4499.8	4251.0	4141.9	4046.4
5302.6	17.5°	5565.1	5773.1	5839.5	5543.0	4987.3	4465.7	4058.4	3862.4	3755.0	3703.8
5490.1	20°	5779.9	5986.1	5931.6	5396.4	4608.9	4019.2	3656.1	3548.7	3526.6	3538.5
5672.5	22.5°	6006.6	6190.7	5950.3	5113.4	4126.5	3562.4	3362.9	3366.3	3415.8	3451.6
5863.4	25°	6238.4	6362.8	5900.9	4704.4	3608.4	3226.6	3177.2	3231.7	3328.8	3398.7
6078.2	27.5°	6461.7	6516.2	5793.5	4198.1	3163.5	2986.2	2994.8	3107.3	3253.9	3351.0
6339.0	30°	6713.9	6652.6	5587.3	3628.8	2855.0	2780.0	2851.6	2982.8	3129.4	3216.4
6667.9	32.5°	6998.6	6770.2	5260.0	3102.2	2636.8	2614.7	2732.3	2817.5	2882.3	2907.8
7104.3	35°	7353.1	6935.5	4840.7	2732.3	2440.8	2493.7	2606.1	2563.5	2538.0	2524.3
7690.6	37.5°	7813.3	7158.8	4349.8	2491.9	2282.3	2406.7	2452.7	2319.8	2219.2	2169.8
8401.4	40°	8367.3	7486.1	3877.7	2306.2	2181.7	2331.7	2251.6	2091.4	1963.6	1893.7
9200.8	42.5°	8982.6	7828.7	3480.5	2166.4	2125.5	2270.4	2103.3	1912.4	1706.2	1684.0
10153.6	45°	9628.6	8181.5	3209.5	2059.0	2098.2	2217.5	2018.1	1709.6	1563.0	1653.3
11109.8	47.5°	10274.6	8505.4	3045.9	1978.9	2084.6	2157.9	1943.1	1597.1	1493.1	1624.4
12134.2	50°	10993.9	8795.1	2972.6	1920.9	2069.2	2134.0	1830.6	1568.1	1419.8	1506.8
13194.4	52.5°	11708.1	9020.1	2918.1	1863.0	2047.1	2115.3	1776.1	1534.0	1331.2	1336.3
14261.4	55°	12420.5	9166.7	2858.4	1786.3	1997.7	2074.4	1771.0	1496.5	1264.7	1240.9
15389.7	57.5°	13180.7	9250.2	2785.1	1701.1	1912.4	1970.4	1765.8	1467.6	1244.3	1205.1
16543.7	60°	13954.6	9372.9	2689.7	1597.1	1798.2	1846.0	1753.9	1457.3	1232.3	1165.9
17631.1	62.5°	14648.3	9415.5	2575.5	1498.2	1651.6	1723.2	1728.3	1448.8	1200.0	1085.8
18534.5	65°	15103.4	9231.5	2376.0	1385.7	1493.1	1597.1	1678.9	1419.8	1142.0	1027.8
18981.1	67.5°	15084.6	8706.5	2064.1	1240.9	1339.7	1457.3	1607.3	1370.4	1072.1	956.2
18643.6	70°	14382.4	7670.2	1668.7	1072.1	1171.0	1307.3	1515.3	1297.1	988.6	877.8
16577.8	72.5°	12335.3	6003.2	1211.9	874.4	975.0	1152.2	1396.0	1208.5	903.4	807.9
12251.8	75°	8812.2	3799.3	821.6	671.6	758.5	976.7	1247.7	1104.5	825.0	811.3
6136.1	77.5°	4501.5	1815.3	543.7	490.9	528.4	770.4	1048.3	986.9	836.9	669.9
1745.4	80°	1464.1	669.9	342.6	334.1	351.1	513.0	811.3	809.6	634.1	455.1
422.7	82.5°	467.0	288.1	223.3	214.8	206.2	322.1	565.9	640.9	427.8	288.1
151.7	85°	185.8	172.2	131.2	121.0	86.9	151.7	296.6	426.1	318.7	207.9
39.2	87.5°	68.2	68.2	35.8	25.6	18.7	51.1	80.1	127.8	182.4	107.4
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>
4643.0
5002.6
5174.8
5140.7
4881.6
4460.6
4036.2
3719.2
3533.4
3460.1
3417.5
3374.9
3236.8
2921.5
2538.0
2181.7
1898.8
1706.2
1701.1
1685.7
1571.5
1372.1
1257.9
1210.2
1171.0
1085.8
1027.8
961.3
<i>888.0</i>
802.8
765.3
596.6
402.3
286.4
213.1
105.7
0.0

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