

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: P941987

Luminaire Tested: **GALN-SB5D-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-740-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54420 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

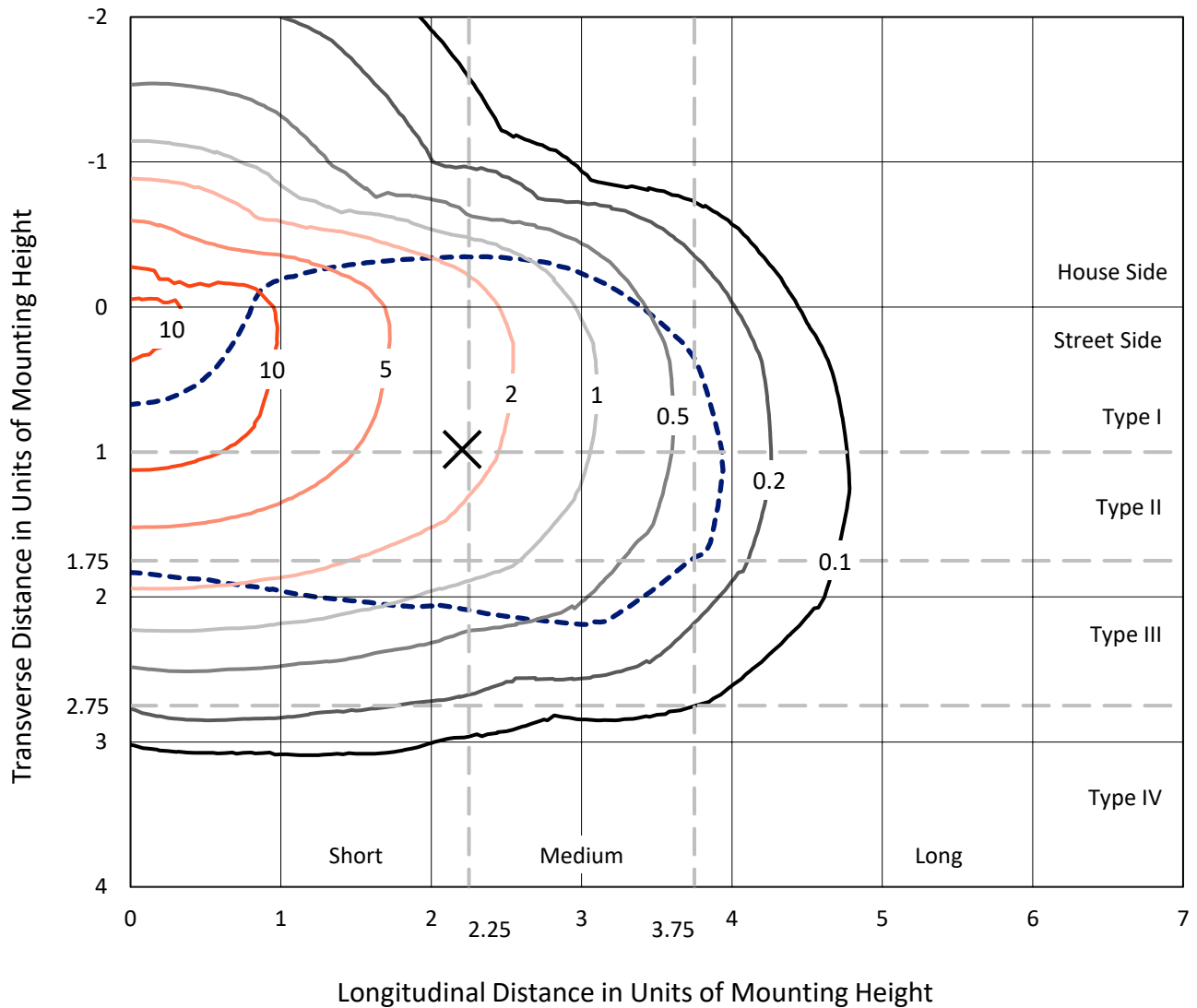
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

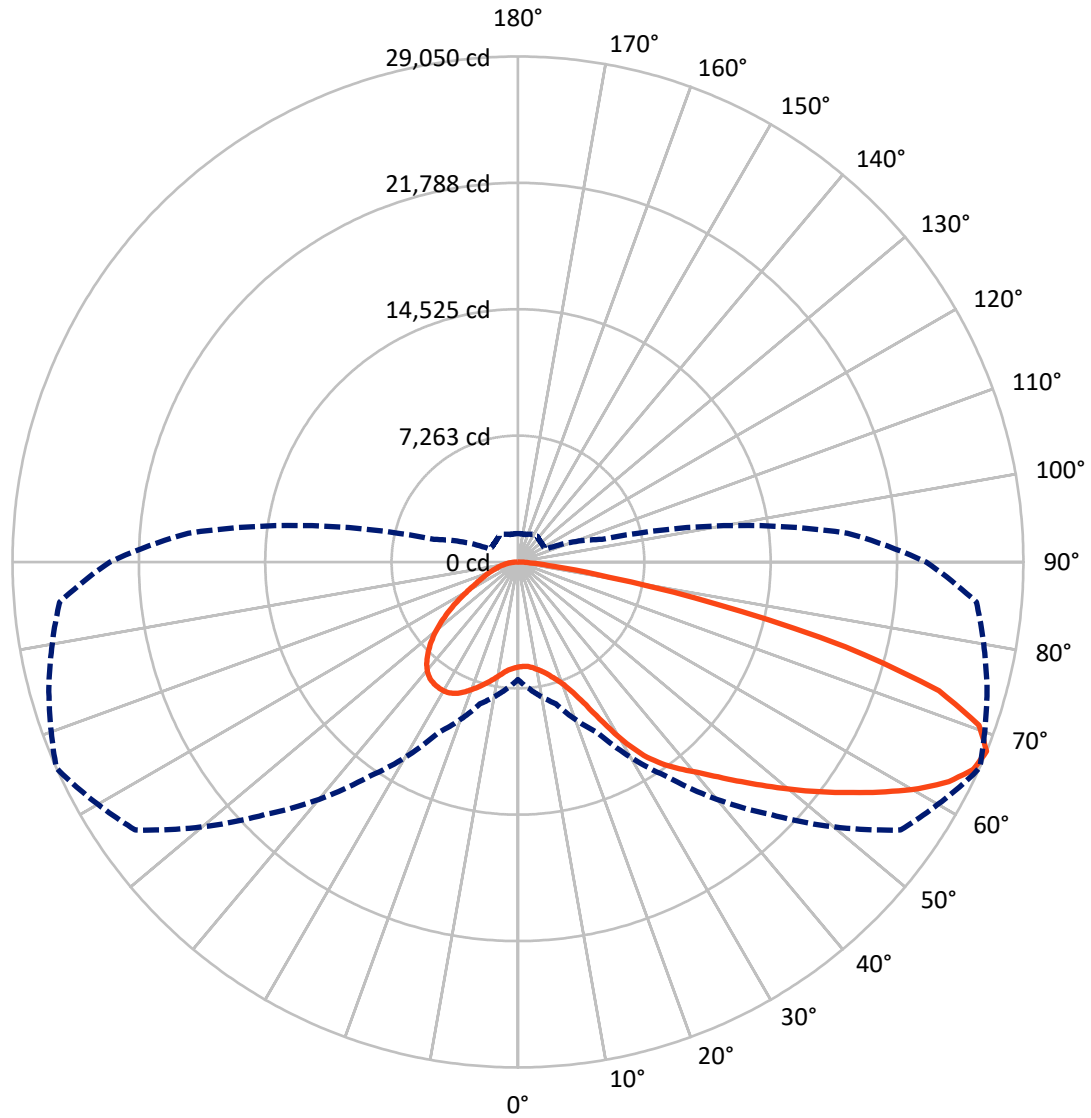
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13531.4	0.0	13531.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	40888.6	0.0	40888.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	54420.0	0.0	54420.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.4	1.1
10°-20°	1977.1	3.6
20°-30°	3810.9	7.0
30°-40°	6681.8	12.3
40°-50°	9933.7	18.3
50°-60°	12591.9	23.1
60°-70°	12320.9	22.6
70°-80°	5877.2	10.8
80°-90°	628.1	1.2
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°	54420.0	100.0
0°-180°	54420.0	100.0

Coefficient of Utilization



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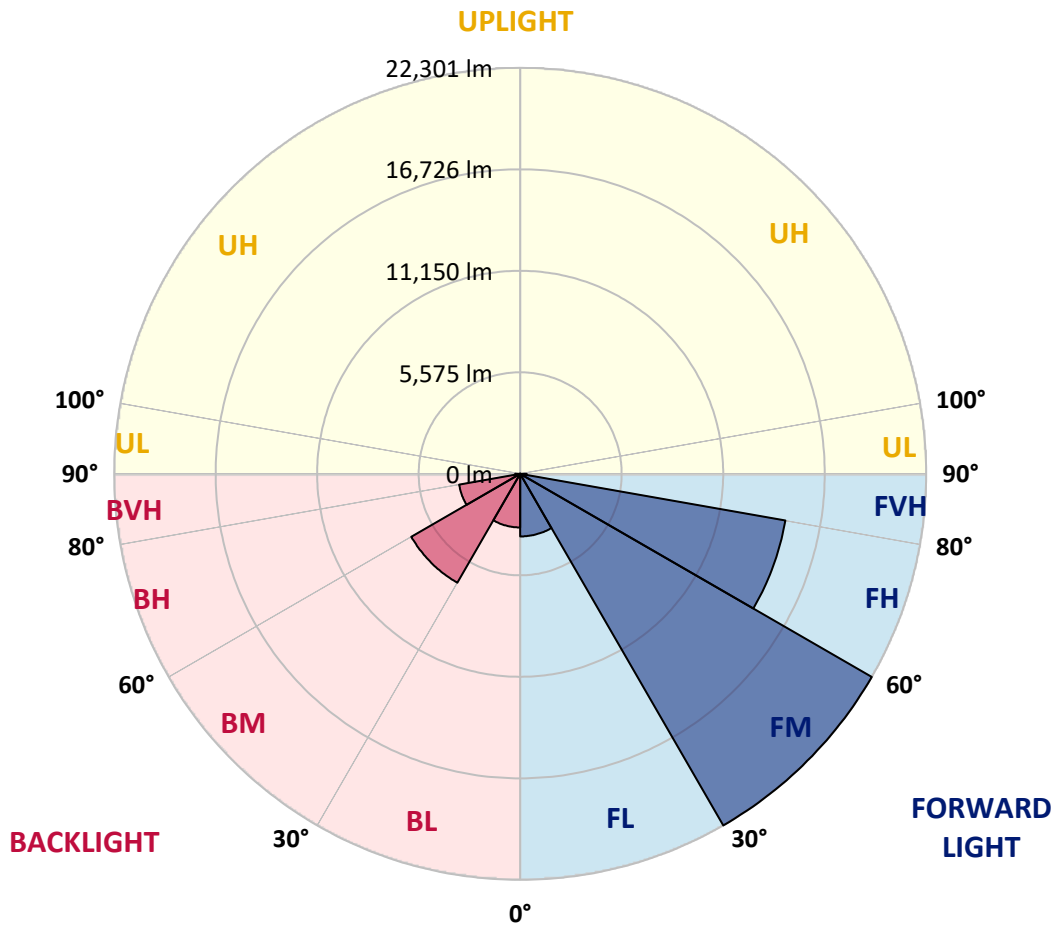
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3438.8	6.3			
FM (30°-60°)	22300.9	41.0			
FH (60°-80°)	14792.8	27.2			G5
FVH (80°-90°)	356.1	0.7			G3/500
BL (0°-30°)	2947.6	5.4	B4/5000		
BM (30°-60°)	6906.6	12.7	B4/8500		
BH (60°-80°)	3405.2	6.3	B4/5000		G4/5000
BVH (80°-90°)	272.0	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	6035.9	6035.9	6035.9	6035.9	6035.9	6035.9	6035.9	6035.9	6035.9	6035.9
2.5°	5973.0	6007.3	5998.7	5984.4	5981.6	5987.3	5995.9	6004.4	6001.6	6015.9
5°	5955.8	5990.1	5987.3	5987.3	5998.7	6021.6	6035.9	6050.2	6035.9	6053.1
7.5°	5967.3	5993.0	6004.4	6015.9	6044.5	6087.4	6121.7	6153.1	6136.0	6156.0
10°	6113.1	6133.1	6144.5	6144.5	6164.6	6213.2	6247.5	6304.7	6290.4	6321.8
12.5°	6379.0	6399.0	6399.0	6387.6	6401.9	6433.3	6444.8	6507.7	6481.9	6533.4
15°	6705.0	6745.0	6713.5	6693.5	6699.2	6730.7	6727.8	6776.4	6750.7	6793.6
17.5°	7065.2	7116.7	7065.2	7062.4	7050.9	7085.2	7088.1	7131.0	7085.2	7116.7
20°	7491.3	7562.7	7519.9	7534.1	7508.4	7522.7	7537.0	7599.9	7528.4	7551.3
22.5°	8091.7	8177.5	8131.7	8186.1	8168.9	8157.5	8154.6	8266.1	8154.6	8163.2
25°	8966.6	9069.6	8989.5	9063.9	9063.9	9101.0	9143.9	9286.9	9101.0	9046.7
27.5°	10259.0	10362.0	10204.7	10250.4	10236.1	10327.6	10281.9	10636.4	10436.3	10347.7
30°	11814.5	11997.5	11700.1	11688.7	11674.4	11820.2	11885.9	12120.4	11917.4	11828.8
32.5°	13495.7	13687.3	13332.7	13229.8	13175.5	13264.1	13209.8	13398.5	13258.4	13121.1
35°	15274.2	15462.9	15125.5	14925.3	14708.0	14522.2	14327.8	14376.4	14244.8	14036.1
37.5°	16955.4	17301.4	16944.0	16729.5	16329.2	15966.1	15422.8	15197.0	15074.0	14882.4
40°	18668.1	18865.4	18593.8	18410.8	17976.2	17407.2	16538.0	16060.5	15894.6	15708.8
42.5°	19929.0	20117.8	19971.9	19846.1	19505.9	18845.4	17721.7	17124.1	16883.9	16675.2
45°	20929.8	21069.9	20978.4	21024.1	20878.3	20237.8	18948.3	18265.0	18016.2	17761.7
47.5°	21332.9	21481.6	21627.4	21899.1	22147.8	21676.0	20266.4	19500.2	19237.1	18976.9
50°	21287.2	21438.7	21861.9	22439.5	23211.5	23054.2	21656.0	20815.4	20572.4	20275.0
52.5°	20921.2	21092.8	21636.0	22596.7	23826.2	24086.4	23071.4	22173.6	21944.8	21590.3
55°	19960.5	20063.4	20878.3	22239.3	23972.0	24806.9	24458.1	23620.3	23391.6	22897.0
57.5°	18179.2	18327.9	19514.4	21275.8	23606.0	25295.9	25676.2	25141.5	24921.3	24209.4
60°	15854.6	16091.9	17450.1	19657.4	22673.9	25293.0	26782.7	26636.9	26453.9	25501.7
62.5°	13224.1	13498.6	14805.2	17370.0	21044.2	24575.3	27474.6	27889.2	27794.9	26694.0
65°	10156.1	10344.8	11645.8	14410.7	18508.0	23034.2	27554.7	28744.1	28761.3	27600.4
67.5°	6762.1	7305.4	8434.8	10813.7	15111.2	20515.2	26851.3	28884.2	29050.1	27912.1
70°	3299.6	4014.4	5120.9	7028.1	10813.7	16652.3	25012.8	27734.8	28103.7	27002.8
72.5°	1369.6	1601.2	2204.5	3468.3	6207.5	11236.9	21318.6	24618.2	25301.6	23926.3
75°	923.5	1000.7	1260.9	1778.5	2827.8	5541.2	15374.2	18356.4	19457.3	18070.5
77.5°	712.0	760.6	917.8	1243.8	1681.2	2095.8	8228.9	11062.5	11631.5	10768.0
80°	560.4	597.6	686.2	906.4	1192.3	1120.8	2804.9	5012.3	5341.1	4480.5
82.5°	486.1	500.4	491.8	614.7	792.0	654.8	920.7	1849.9	2041.5	1481.1
85°	351.7	391.7	408.9	380.3	420.3	331.7	377.4	654.8	720.5	643.3
87.5°	143.0	211.6	260.2	245.9	154.4	94.4	117.2	191.6	220.2	240.2
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°
6035.9	0°	6035.9	6035.9	6035.9	6035.9	6035.9	6035.9	6035.9	6035.9	6035.9	6035.9
6038.8	2.5°	6041.6	6061.6	6075.9	6093.1	6104.5	6121.7	6156.0	6176.0	6178.9	6193.2
6084.5	5°	6095.9	6124.5	6156.0	6201.7	6253.2	6296.1	6361.9	6407.6	6424.8	6439.1
6196.0	7.5°	6213.2	6253.2	6310.4	6390.4	6464.8	6522.0	6602.0	6656.4	6710.7	6730.7
6373.3	10°	6387.6	6444.8	6527.7	6636.3	6716.4	6790.7	6873.7	6919.4	6973.7	6996.6
6584.9	12.5°	6604.9	6664.9	6773.6	6925.1	6999.5	7050.9	7079.5	7068.1	7079.5	7099.5
6839.3	15°	6853.6	6919.4	7042.4	7205.3	7256.8	7211.1	7148.1	7091.0	7082.4	7088.1
7148.1	17.5°	7148.1	7196.8	7339.7	7477.0	7439.8	7251.1	7113.8	7022.3	6976.6	6962.3
7542.7	20°	7559.9	7559.9	7677.1	7762.9	7514.1	7193.9	6979.5	6830.8	6736.4	6696.4
8080.3	22.5°	8060.3	8014.5	8088.8	8028.8	7499.8	7033.8	6736.4	6479.1	6336.1	6278.9
8832.3	25°	8695.0	8640.7	8620.7	8249.0	7396.9	6779.3	6296.1	5984.4	5858.6	5827.2
9915.9	27.5°	9652.9	9515.6	9255.4	8369.1	7208.2	6379.0	5781.4	5492.6	5421.2	5424.0
11308.4	30°	10928.1	10653.6	10016.0	8389.1	6899.4	5812.9	5255.3	5049.5	5015.1	5029.4
12477.8	32.5°	12109.0	11848.8	10793.7	8297.6	6424.8	5258.2	4783.5	4646.3	4594.8	4612.0
13369.9	35°	13035.4	12963.9	11514.2	8168.9	5841.5	4737.8	4360.4	4243.1	4143.1	4120.2
14210.5	37.5°	13910.3	13881.7	12054.6	7988.8	5263.9	4368.9	4020.1	3865.7	3719.9	3639.8
15139.8	40°	14871.0	14842.4	12409.2	7711.4	4752.1	4048.7	3714.2	3511.2	3331.0	3185.2
16192.0	42.5°	15951.8	15783.1	12577.9	7314.0	4317.5	3777.1	3465.4	3190.9	2953.6	2819.2
17381.4	45°	17132.7	16752.4	12575.0	6807.9	3951.5	3528.3	3199.5	2810.7	2590.5	2464.7
18602.3	47.5°	18385.0	17678.8	12420.6	6247.5	3596.9	3253.8	2787.8	2490.4	2344.6	2267.4
19929.0	50°	19677.4	18545.2	12157.6	5604.1	3233.8	2942.2	2530.4	2327.4	2215.9	2144.4
21244.3	52.5°	20892.6	19331.5	11840.2	4875.0	2865.0	2639.1	2416.1	2258.8	2141.6	2061.5
22519.5	55°	22022.0	20009.1	11391.3	4128.8	2564.8	2436.1	2361.7	2230.2	2095.8	2001.5
23814.8	57.5°	23025.6	20449.4	10616.4	3428.3	2350.3	2296.0	2304.6	2181.6	2027.2	1947.2
25090.0	60°	23860.5	20772.5	9469.9	2779.2	2175.9	2158.7	2215.9	2090.1	1910.0	1818.5
26167.9	62.5°	24360.9	20766.8	8063.1	2276.0	2027.2	2032.9	2098.7	1975.7	1792.8	1707.0
26731.2	65°	24318.0	20257.9	6519.1	1947.2	1884.3	1890.0	1975.7	1849.9	1695.5	1644.1
26448.2	67.5°	23457.4	19016.9	5000.8	1732.7	1727.0	1752.7	1852.8	1764.2	1635.5	1629.8
24761.2	70°	21127.1	16440.7	3602.7	1561.2	1564.0	1601.2	1732.7	1709.8	1604.0	1615.5
20818.3	72.5°	16941.1	12535.0	2418.9	1381.0	1383.9	1443.9	1618.3	1666.9	1572.6	1724.1
14770.9	75°	11282.6	7817.2	1555.4	1189.5	1192.3	1269.5	1518.3	1584.0	1486.8	1718.4
7685.7	77.5°	5421.2	3514.0	1126.5	1000.7	1000.7	1072.2	1312.4	1418.2	1266.7	1335.3
2470.4	80°	1872.8	1321.0	886.4	806.3	789.2	837.8	1106.5	1229.5	1092.2	1006.5
806.3	82.5°	737.7	686.2	712.0	626.2	569.0	600.4	860.6	1015.0	803.5	726.3
454.6	85°	423.2	446.0	503.2	414.6	328.8	368.8	631.9	729.1	606.2	534.7
148.7	87.5°	114.4	157.3	231.6	214.4	148.7	157.3	300.2	403.2	348.8	268.8
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>
6035.9
6190.3
6436.2
6733.6
7008.0
7105.3
7108.1
6982.3
6687.8
6270.4
5832.9
5432.6
5078.0
4634.9
4137.3
3642.7
3199.5
2827.8
2459.0
2250.2
2118.7
2027.2
1964.3
1895.7
1778.5
1681.2
1641.2
1638.4
1612.6
1747.0
1732.7
1223.8
943.6
723.4
546.1
277.3
0.0

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