

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: P947419

Luminaire Tested: **GALN-SB2D-740-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947419  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-740-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

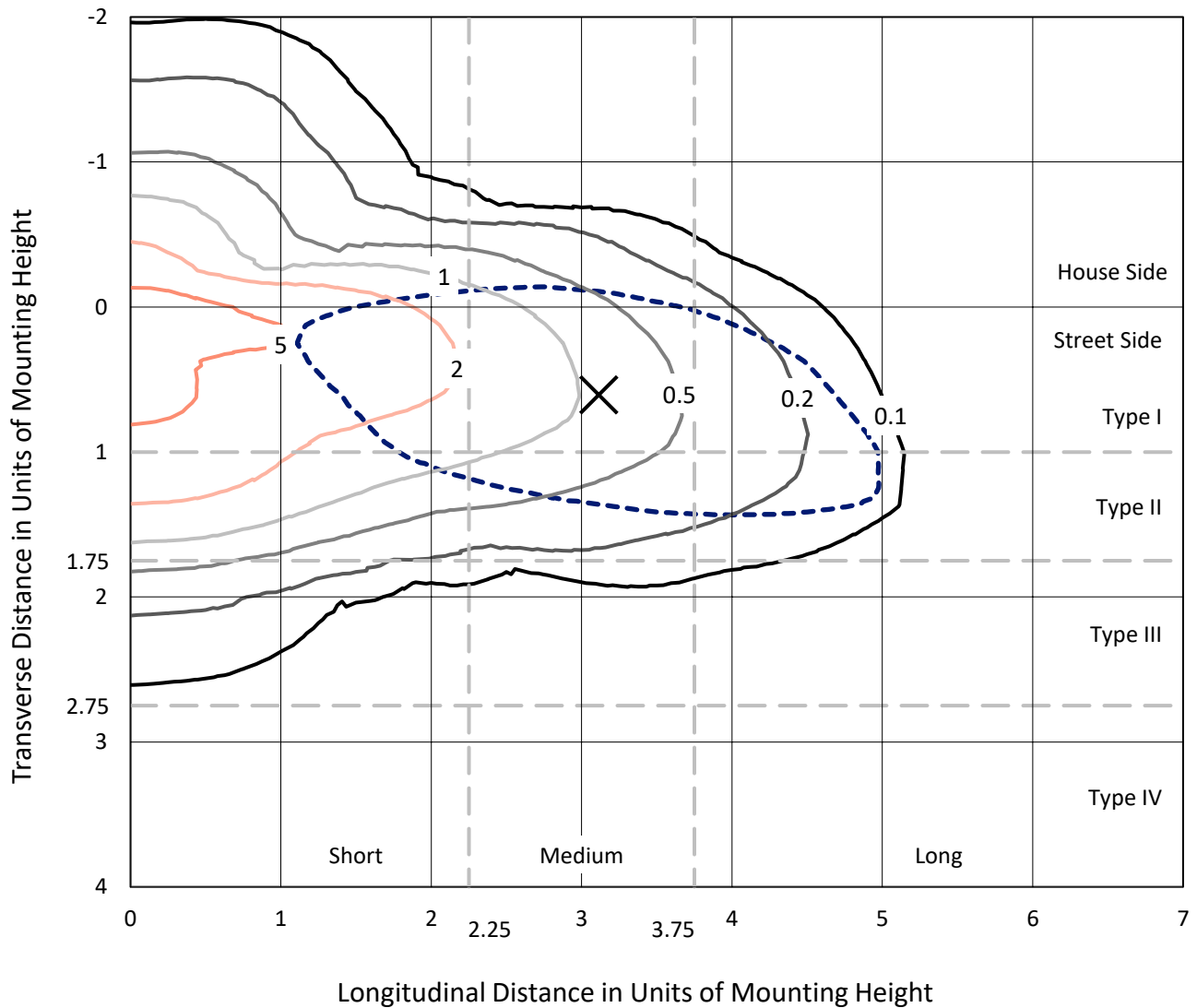
Lumens per Lamp: N/A  
Luminaire Lumens: 21400 lumens  
Efficiency: N/A  
Efficacy: 145.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

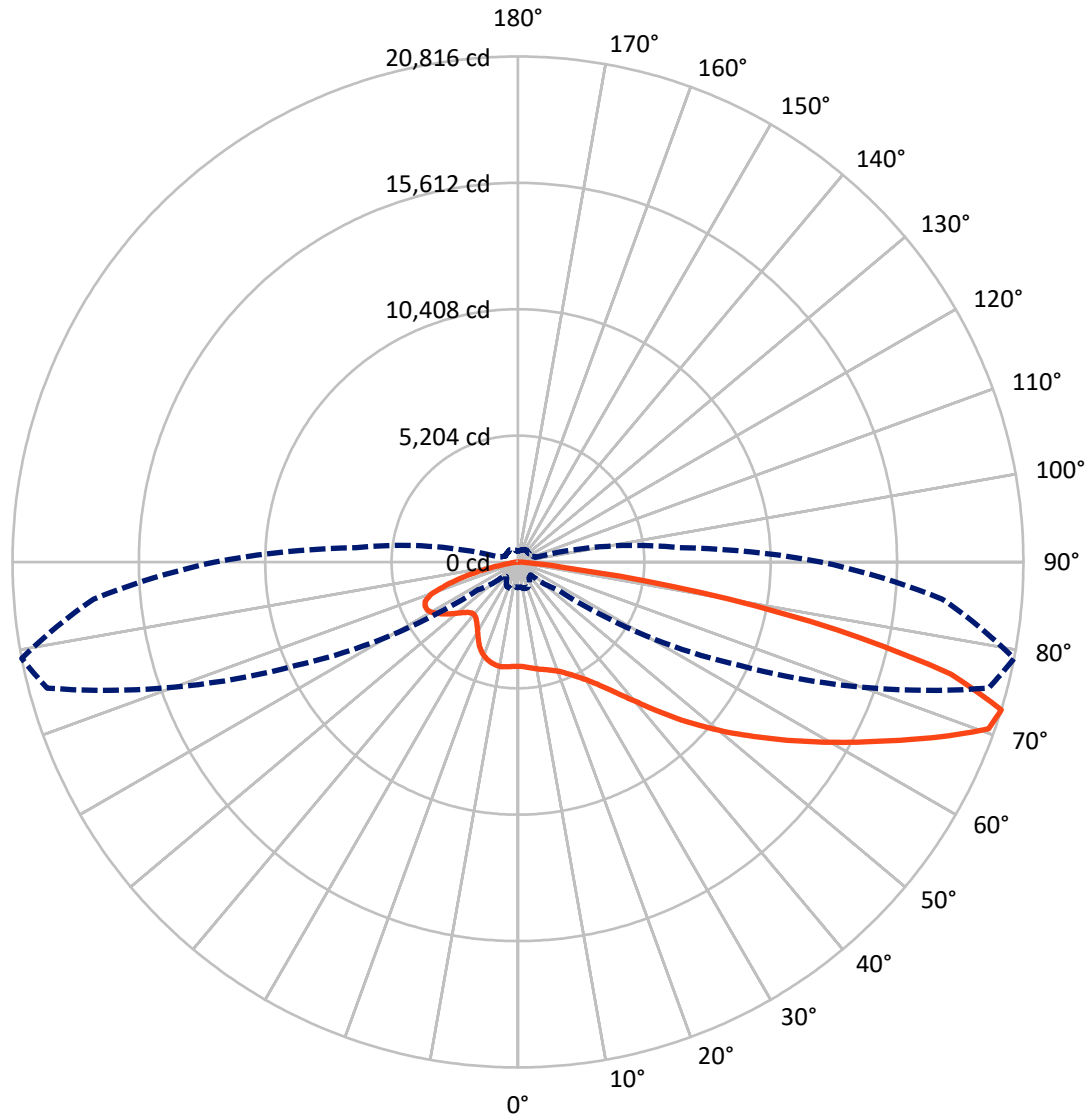
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4709.2	0.0	4709.2
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	16690.8	0.0	16690.8
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	21400.0	0.0	21400.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.9	1.8
10°-20°	1019.5	4.8
20°-30°	1645.0	7.7
30°-40°	2469.0	11.5
40°-50°	3502.4	16.4
50°-60°	4423.1	20.7
60°-70°	4492.2	21.0
70°-80°	3061.6	14.3
80°-90°	397.2	1.9
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°	21400.0	100.0
0°-180°	21400.0	100.0

**Coefficient of Utilization**



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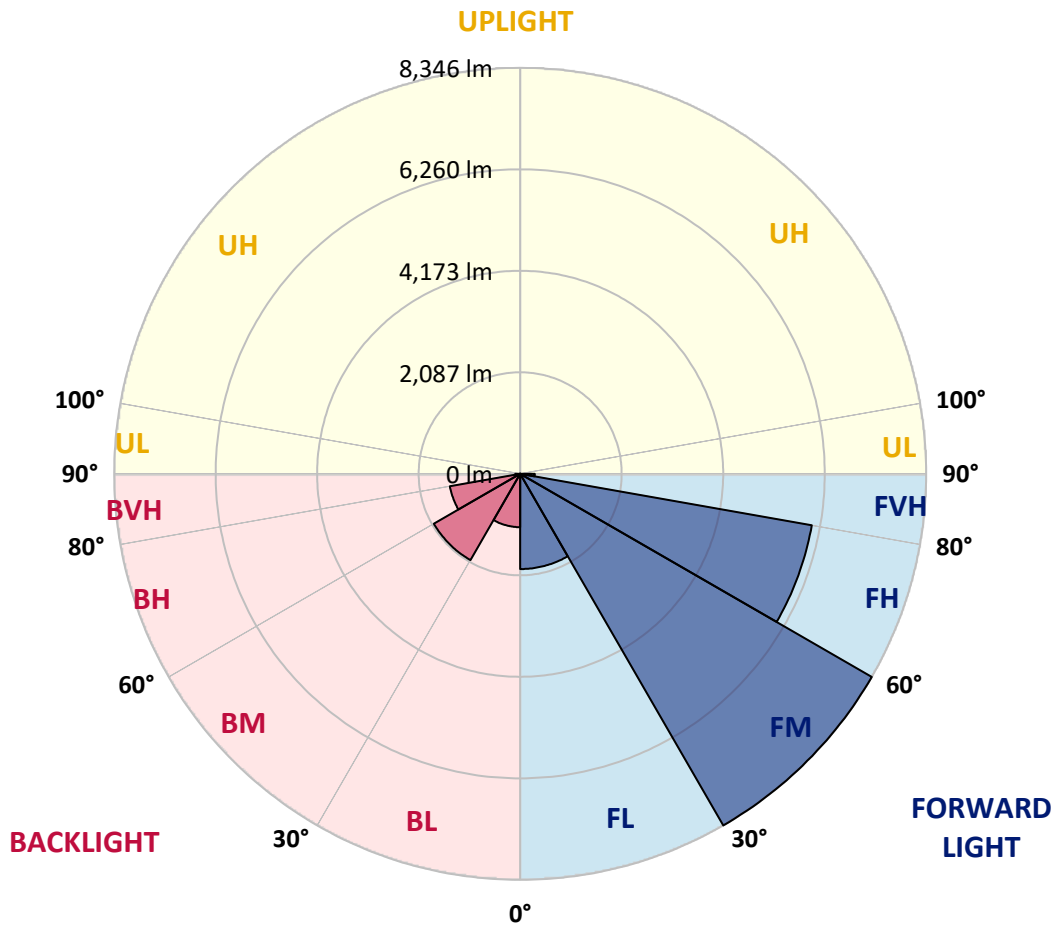
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1957.6	9.1			
FM (30°-60°)	8346.4	39.0			
FH (60°-80°)	6087.6	28.4			G3/7500
FVH (80°-90°)	299.2	1.4			G3/500
BL (0°-30°)	1096.9	5.1	B3/2500		
BM (30°-60°)	2048.0	9.6	B2/2500		
BH (60°-80°)	1466.3	6.9	B3/2500		G3/2500
BVH (80°-90°)	98.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4295.8	4295.8	4295.8	4295.8	4295.8	4295.8	4295.8	4295.8	4295.8	4295.8
2.5°	4298.1	4277.7	4290.2	4285.7	4291.3	4298.1	4300.4	4303.8	4315.1	4314.0
5°	4289.1	4268.7	4285.7	4280.0	4294.7	4310.6	4324.1	4336.6	4354.7	4362.6
7.5°	4269.8	4256.2	4273.2	4290.2	4317.4	4341.1	4360.4	4388.7	4414.7	4419.2
10°	4157.7	4147.6	4187.2	4231.3	4306.0	4370.6	4412.4	4445.3	4473.6	4478.1
12.5°	4041.2	4028.7	4072.8	4132.8	4254.0	4370.6	4458.9	4501.9	4526.8	4541.5
15°	4021.9	4011.7	4036.6	4088.7	4189.4	4340.0	4490.5	4569.8	4591.3	4608.3
17.5°	4114.7	4095.5	4105.7	4123.8	4182.6	4311.7	4515.4	4646.8	4679.6	4697.7
20°	4329.8	4302.6	4286.8	4250.6	4240.4	4316.2	4513.2	4739.6	4782.6	4805.2
22.5°	4616.2	4598.1	4564.1	4472.4	4372.8	4371.7	4556.2	4858.4	4938.8	4960.3
25°	4962.6	4935.4	4892.4	4767.9	4576.6	4481.5	4628.6	5010.1	5144.8	5150.5
27.5°	5361.0	5320.3	5261.4	5097.3	4839.2	4653.6	4739.6	5184.4	5381.4	5379.1
30°	5781.0	5740.2	5678.0	5478.8	5153.9	4885.6	4893.5	5372.4	5662.1	5649.7
32.5°	6087.8	6057.2	6044.7	5890.8	5516.1	5159.5	5070.1	5580.6	6008.5	5997.2
35°	6323.2	6283.6	6298.3	6220.2	5911.2	5466.3	5286.3	5828.5	6429.6	6428.5
37.5°	6556.4	6521.3	6533.8	6481.7	6276.8	5855.7	5550.1	6131.9	6951.5	6976.4
40°	6769.2	6731.9	6781.7	6733.0	6560.9	6270.0	5850.0	6474.9	7555.9	7603.5
42.5°	6897.1	6867.7	6950.3	6951.5	6807.7	6619.8	6179.5	6853.0	8255.5	8361.9
45°	6941.3	6931.1	7055.6	7081.6	7026.2	6822.4	6476.0	7265.0	9009.4	9199.6
47.5°	6893.7	6874.5	7046.5	7142.8	7186.9	6917.5	6721.7	7711.0	9779.1	10057.6
50°	6653.8	6616.4	6872.2	7074.8	7232.2	6979.8	6969.6	8226.1	10654.2	10958.7
52.5°	6222.5	6194.2	6485.1	6837.1	7132.6	7010.3	7248.0	8788.7	11485.0	11878.9
55°	5671.2	5633.8	5954.2	6413.8	6884.7	7000.1	7526.5	9418.0	12465.3	12864.9
57.5°	4797.3	4722.6	5127.8	5671.2	6480.6	6987.7	7816.3	10044.0	13461.5	13940.3
60°	3522.7	3411.8	3908.7	4552.8	5690.4	6866.6	8175.1	10745.8	14656.8	15088.1
62.5°	2051.1	1986.6	2311.5	2912.6	4289.1	6153.4	8376.6	11562.0	15831.8	16284.6
65°	1592.7	1574.6	1602.9	1649.3	2387.3	4607.1	7755.2	12357.8	17326.0	17643.0
67.5°	1456.9	1443.3	1455.7	1368.6	1211.2	2566.2	6135.3	12559.3	18926.6	19119.1
70°	1295.0	1279.1	1319.9	1245.2	953.1	1167.1	3964.2	11828.0	20200.1	20561.2
72.5°	1055.0	1036.9	1132.0	1098.0	802.6	749.4	1991.1	10090.4	20066.5	20815.9
75°	810.5	800.3	913.5	941.8	654.3	589.8	955.4	7500.5	17658.8	18413.8
77.5°	629.4	621.5	679.2	782.2	527.5	457.3	587.5	4757.7	13307.5	13439.9
80°	472.0	449.4	502.6	605.6	410.9	333.9	398.5	2774.5	8411.7	7625.0
82.5°	295.4	284.1	328.3	404.1	289.8	229.8	259.2	1532.7	3371.0	1985.5
85°	168.7	164.1	178.9	230.9	157.3	132.4	148.3	676.9	615.8	423.4
87.5°	67.9	65.7	81.5	103.0	57.7	48.7	52.1	163.0	135.8	125.6
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°
4295.8	0°	4295.8	4295.8	4295.8	4295.8	4295.8	4295.8	4295.8	4295.8	4295.8	4295.8
4312.8	2.5°	4308.3	4308.3	4292.5	4267.5	4239.2	4221.1	4191.7	4183.8	4153.2	4144.2
4351.3	5°	4360.4	4351.3	4302.6	4232.5	4136.2	4047.9	3950.6	3889.5	3803.4	3772.9
4427.2	7.5°	4426.0	4401.1	4317.4	4163.4	3961.9	3763.8	3557.8	3401.6	3252.2	3199.0
4489.4	10°	4486.0	4450.9	4308.3	4038.9	3690.2	3347.3	3019.0	2789.2	2614.9	2543.5
4558.5	12.5°	4546.0	4481.5	4248.3	3831.7	3304.2	2839.0	2489.2	2310.4	2202.8	2116.8
4615.1	15°	4602.6	4512.1	4155.5	3554.4	2880.9	2408.8	2150.8	2008.1	1922.1	1865.5
4697.7	17.5°	4668.3	4538.1	4016.2	3202.4	2477.9	2111.1	1900.6	1814.6	1797.6	1790.8
4810.9	20°	4760.0	4561.9	3832.9	2808.4	2181.3	1873.4	1764.7	1756.8	1755.7	1752.3
4946.7	22.5°	4858.4	4590.2	3590.6	2450.7	1928.9	1725.1	1705.9	1690.0	1679.9	1678.7
5110.9	25°	4975.0	4599.2	3287.3	2157.5	1713.8	1654.9	1632.3	1608.5	1601.7	1601.7
5297.6	27.5°	5088.2	4568.7	2934.1	1902.9	1592.7	1590.4	1561.0	1553.1	1551.9	1555.3
5510.5	30°	5201.4	4510.9	2583.2	1667.4	1522.5	1522.5	1512.3	1518.0	1522.5	1533.8
5802.5	32.5°	5354.2	4449.8	2290.0	1493.1	1461.4	1450.1	1460.2	1471.6	1476.1	1490.8
6186.2	35°	5578.4	4406.8	2056.8	1398.0	1398.0	1383.3	1388.9	1386.7	1376.5	1369.7
6650.4	37.5°	5875.0	4404.5	1864.4	1353.8	1344.8	1342.5	1343.7	1328.9	1289.3	1241.8
7211.8	40°	6231.5	4465.6	1716.1	1323.3	1316.5	1330.1	1323.3	1283.7	1175.0	1092.4
7902.3	42.5°	6710.3	4640.0	1621.0	1285.9	1306.3	1323.3	1296.1	1159.1	1085.6	1030.1
8689.0	45°	7274.1	4923.0	1572.3	1246.3	1287.1	1307.4	1176.1	1116.1	1057.3	990.5
9547.1	47.5°	7912.5	5279.5	1561.0	1208.9	1244.0	1256.5	1125.2	1098.0	1031.2	958.8
10409.6	50°	8607.5	5701.8	1591.6	1164.8	1181.8	1138.8	1108.2	1083.3	1014.2	942.9
11293.7	52.5°	9326.3	6167.0	1652.7	1104.8	1119.5	1072.0	1101.4	1079.9	1004.1	907.8
12207.2	55°	10032.7	6635.6	1711.5	1034.6	1056.1	1012.0	1082.2	1066.3	957.7	849.0
13181.9	57.5°	10750.4	7102.0	1769.3	972.4	995.0	954.3	1051.6	1030.1	905.6	794.6
14245.9	60°	11496.3	7554.8	1796.4	912.4	928.2	901.1	1005.2	967.8	846.7	739.2
15291.9	62.5°	12194.8	7931.8	1752.3	852.4	862.6	851.2	944.1	894.3	787.9	676.9
16381.9	65°	12895.5	8155.9	1616.5	793.5	795.8	790.1	858.0	815.0	718.8	622.6
17336.2	67.5°	13530.5	8281.5	1400.3	730.1	724.5	722.2	777.7	729.0	652.0	568.3
18061.8	70°	13665.2	7962.3	1069.7	655.4	655.4	649.8	689.4	639.6	578.4	510.5
17542.2	72.5°	12481.2	6697.9	759.6	570.5	579.6	568.3	601.1	559.2	503.7	458.5
15118.7	75°	10064.4	4911.6	552.4	483.4	499.2	480.0	510.5	481.1	433.5	432.4
10418.7	77.5°	6915.2	3037.1	400.7	398.5	409.8	384.9	420.0	404.1	361.1	341.9
4534.7	80°	2951.1	1211.2	292.0	307.9	307.9	285.3	326.0	330.5	293.2	284.1
875.0	82.5°	587.5	344.1	204.9	211.7	199.2	192.4	230.9	255.8	353.2	392.8
263.8	85°	176.6	126.8	123.4	115.5	101.9	103.0	135.8	257.0	317.0	181.1
87.2	87.5°	48.7	31.7	32.8	26.0	21.5	28.3	46.4	194.7	106.4	45.3
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

<u>180°</u>
4295.8
4158.9
3795.5
3205.8
2559.4
2145.1
1875.7
1795.3
1763.6
1691.2
1608.5
1564.4
1541.8
1503.3
1385.5
1242.9
1090.1
1027.8
986.0
953.1
935.0
901.1
843.3
792.4
735.8
675.8
615.8
561.5
508.3
444.9
389.4
320.3
284.1
393.9
156.2
38.5
0.0

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