

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: P955443

Luminaire Tested: **GALN-SB8B-927-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-927-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27088 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

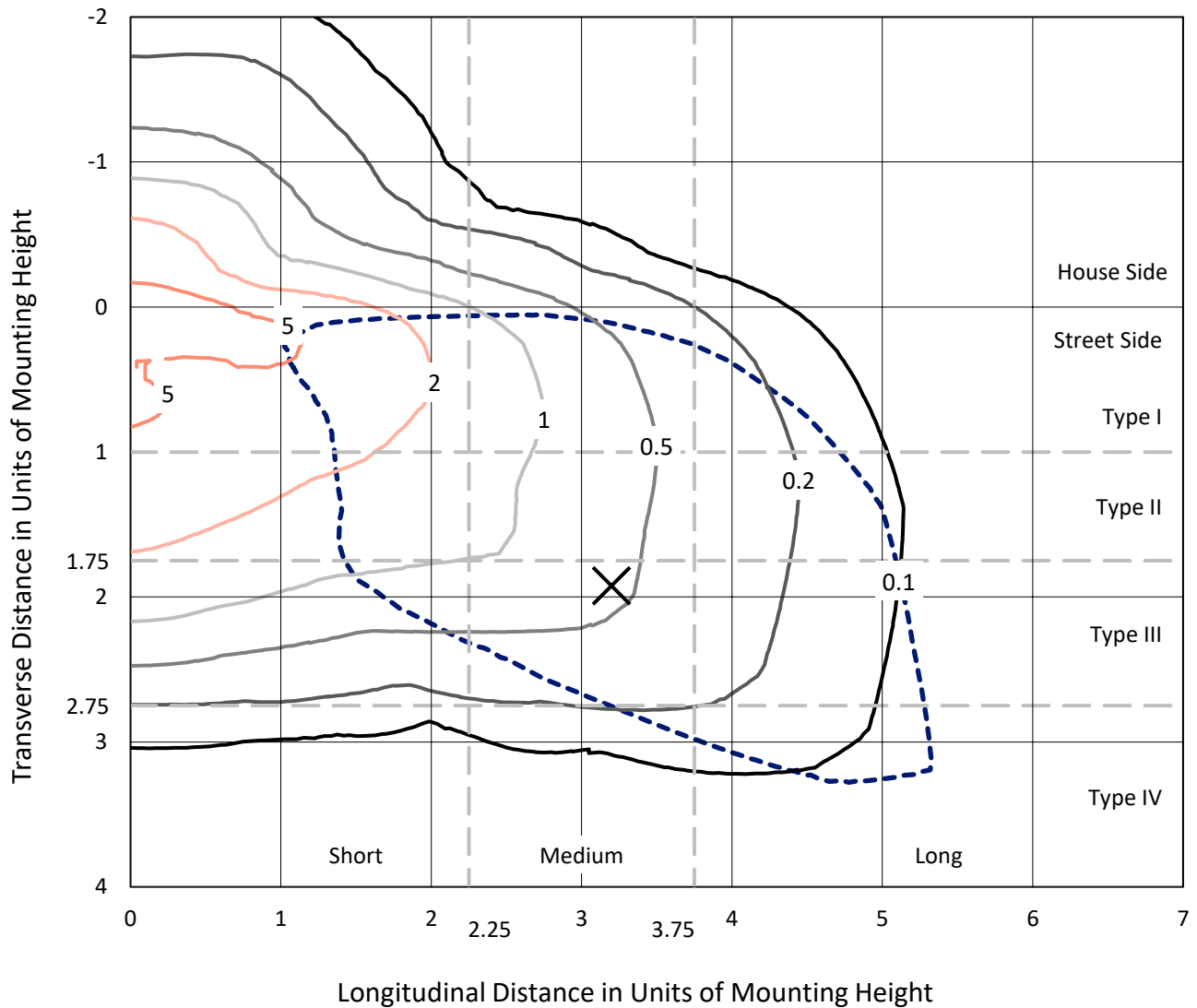
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

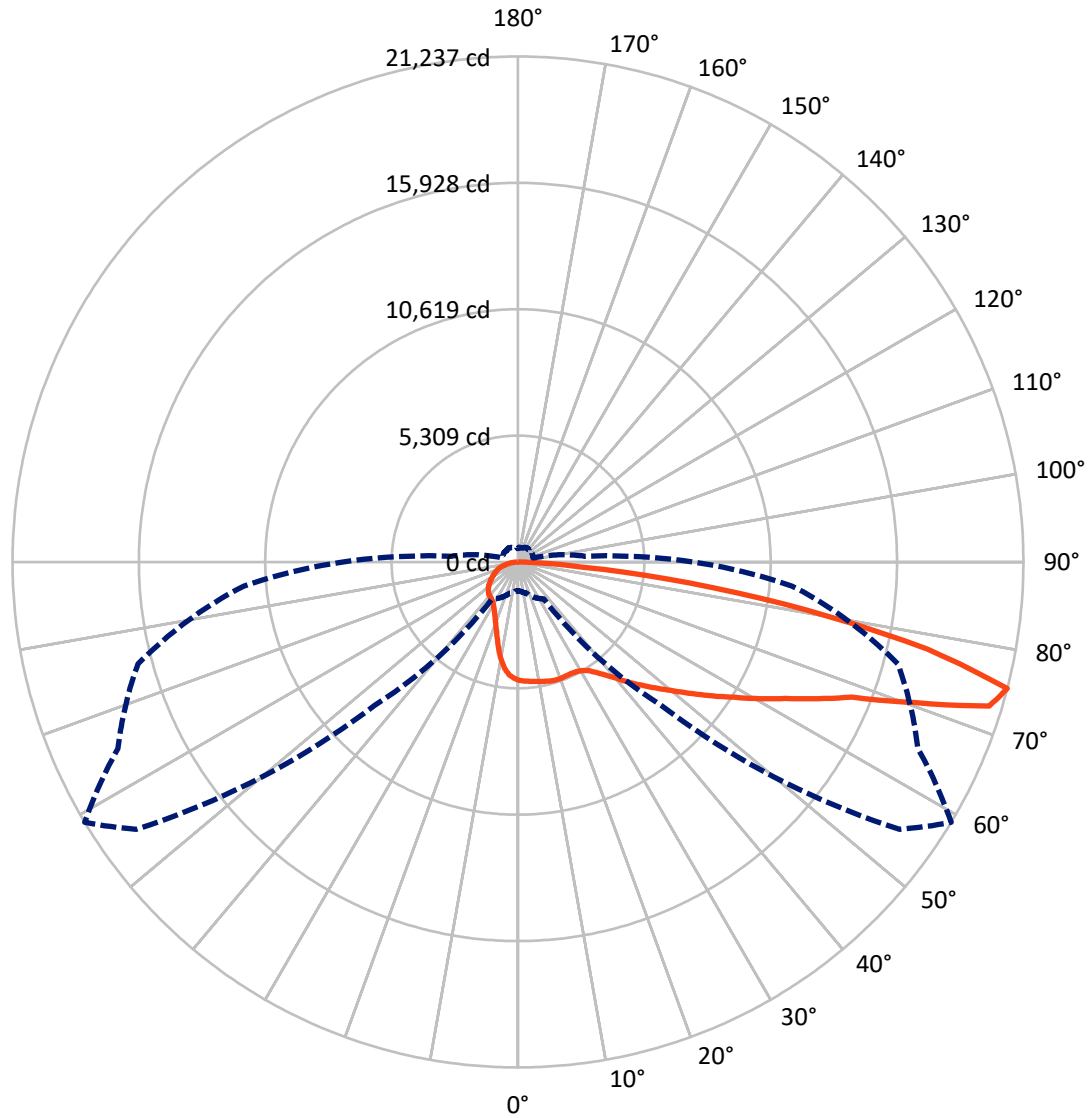
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5080.5	0.0	5080.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	22007.5	0.0	22007.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	27088.0	0.0	27088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.8	1.6
10°-20°	1139.5	4.2
20°-30°	1730.9	6.4
30°-40°	2572.9	9.5
40°-50°	3826.3	14.1
50°-60°	5193.8	19.2
60°-70°	6340.7	23.4
70°-80°	4976.1	18.4
80°-90°	862.0	3.2
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°	27088.0	100.0
0°-180°	27088.0	100.0

Coefficient of Utilization



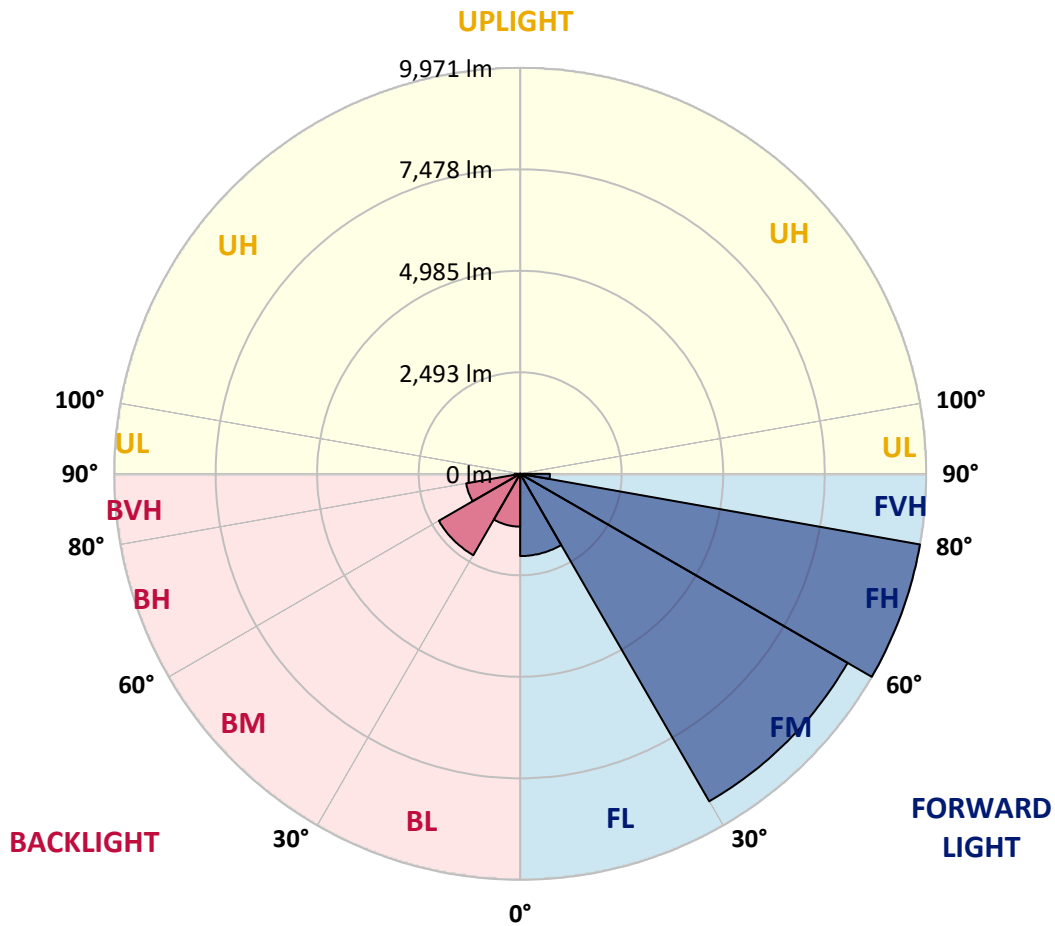
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2019.7	7.5			
FM (30°-60°)	9286.9	34.3			
FH (60°-80°)	9970.8	36.8			G4/12000
FVH (80°-90°)	730.0	2.7			G4/750
BL (0°-30°)	1296.5	4.8	B3/2500		
BM (30°-60°)	2306.1	8.5	B2/2500		
BH (60°-80°)	1346.0	5.0	B3/2500		G3/2500
BVH (80°-90°)	131.9	0.5			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	4971.9	4971.9	4971.9	4971.9	4971.9	4971.9	4971.9	4971.9	4971.9	4971.9
2.5°	5014.2	4996.7	5014.2	5006.9	5004.0	4998.2	4999.6	5009.8	5004.0	5011.3
5°	4980.7	4970.5	4988.0	4983.6	5002.5	5005.5	5024.4	5036.1	5043.3	5044.8
7.5°	4925.3	4915.1	4939.9	4960.3	5001.1	5012.7	5052.1	5071.0	5081.2	5098.7
10°	4722.8	4718.4	4779.6	4856.8	4953.0	5012.7	5072.5	5104.5	5120.6	5167.2
12.5°	4364.3	4370.1	4450.3	4598.9	4791.3	4983.6	5095.8	5142.4	5167.2	5225.5
15°	4021.9	4020.4	4107.8	4266.7	4536.2	4855.4	5107.5	5187.6	5229.9	5315.8
17.5°	3823.7	3817.8	3879.0	4000.0	4250.6	4658.6	5078.3	5212.4	5302.7	5410.6
20°	3787.2	3775.6	3807.6	3867.4	4045.2	4443.0	5002.5	5212.4	5361.0	5500.9
22.5°	3919.8	3900.9	3887.8	3880.5	3959.2	4265.2	4916.6	5194.9	5447.0	5630.6
25°	4186.5	4157.4	4090.3	4024.8	4001.5	4185.1	4840.8	5190.5	5575.2	5805.5
27.5°	4617.8	4581.4	4445.9	4288.5	4147.2	4225.9	4807.3	5216.8	5716.6	5990.5
30°	5152.6	5113.3	4942.8	4700.9	4447.4	4377.4	4849.5	5294.0	5897.3	6236.8
32.5°	5632.1	5588.3	5442.6	5196.3	4853.9	4639.7	4983.6	5441.2	6181.4	6579.2
35°	6057.6	6006.5	5875.4	5648.1	5352.3	5008.4	5225.5	5702.0	6585.1	7135.9
37.5°	6474.3	6414.6	6271.8	6031.3	5824.4	5499.4	5559.2	6037.2	7121.3	7812.0
40°	6940.6	6854.6	6681.2	6443.7	6242.6	6075.0	5997.8	6448.1	7666.3	8566.8
42.5°	7392.3	7310.7	7103.8	6901.3	6649.2	6601.1	6506.4	6929.0	8262.3	9396.0
45°	7879.0	7781.4	7530.8	7274.3	7115.5	6950.8	6998.9	7409.8	8846.6	10241.2
47.5°	8335.1	8225.9	7930.0	7644.4	7557.0	7245.2	7450.6	7938.8	9454.3	11098.0
50°	8581.4	8473.6	8227.3	7969.4	7900.9	7608.0	7940.2	8520.2	10091.1	11951.9
52.5°	8786.9	8670.3	8348.3	8205.5	8185.1	8002.9	8543.5	9184.7	10727.9	12706.7
55°	9005.5	8875.8	8464.8	8336.6	8429.9	8445.9	9259.0	9938.1	11401.1	13442.6
57.5°	9257.5	9092.9	8577.0	8447.3	8668.8	8964.7	10080.9	10719.1	12062.6	14124.6
60°	9495.1	9328.9	8792.7	8623.7	8926.8	9566.5	11023.7	11664.8	12811.6	14732.2
62.5°	9541.7	9404.7	8964.7	8963.2	9276.5	10268.8	12139.9	12619.3	13465.9	15332.6
65°	8734.4	8648.4	8387.6	8950.1	9777.8	11280.1	13382.9	13840.4	14298.0	15857.2
67.5°	6647.7	6659.4	6640.4	7726.0	9372.7	12733.0	15182.5	15147.5	15325.3	16445.9
70°	3039.7	3108.2	3554.1	5333.3	7508.9	12900.5	18158.1	17704.9	16614.9	17208.0
72.5°	1642.3	1694.7	1876.9	2583.6	4514.4	11469.6	20381.8	20703.8	18330.0	17720.9
75°	1205.1	1234.2	1361.0	1642.3	1895.8	8524.6	19584.7	21237.1	18544.2	16524.6
77.5°	902.0	915.1	1018.6	1301.3	970.5	4494.0	15648.8	17588.3	15874.7	13576.7
80°	654.3	668.9	746.1	976.3	680.5	1643.7	10745.3	12345.3	10872.1	8654.3
82.5°	451.7	457.6	491.1	664.5	475.0	638.3	6096.9	7239.3	6069.2	3036.8
85°	272.5	279.8	294.4	387.6	269.6	303.1	2631.7	2722.0	1814.2	725.7
87.5°	112.2	119.5	131.1	163.2	106.4	84.5	434.2	545.0	339.5	212.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955443
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4971.9	0°	4971.9	4971.9	4971.9	4971.9	4971.9	4971.9	4971.9	4971.9	4971.9	4971.9
4986.5	2.5°	4979.2	4969.0	4941.3	4903.5	4868.5	4824.8	4805.8	4789.8	4775.2	4747.5
5025.9	5°	5009.8	4982.1	4907.8	4811.7	4702.4	4582.9	4466.3	4386.2	4317.7	4266.7
5071.0	7.5°	5056.5	5004.0	4868.5	4671.8	4421.1	4164.7	3933.0	3768.3	3644.4	3599.3
5135.1	10°	5104.5	5041.9	4805.8	4459.0	4026.2	3631.3	3323.9	3154.8	3055.7	3023.7
5210.9	12.5°	5161.4	5069.6	4708.2	4163.2	3584.7	3151.9	2883.8	2784.7	2733.7	2716.2
5304.2	15°	5244.4	5092.9	4561.0	3793.1	3163.6	2802.2	2628.8	2560.3	2534.1	2532.6
5400.4	17.5°	5307.1	5097.3	4332.2	3396.7	2840.1	2590.9	2448.1	2421.9	2439.3	2465.6
5495.1	20°	5377.0	5057.9	4032.1	3035.3	2612.7	2405.8	2346.1	2363.6	2405.8	2443.7
5620.4	22.5°	5426.6	4986.5	3669.2	2754.1	2416.0	2299.5	2296.5	2333.0	2356.3	2375.2
5767.6	25°	5470.3	4865.6	3284.5	2518.0	2254.3	2235.3	2267.4	2255.7	2239.7	2255.7
5914.7	27.5°	5502.4	4674.7	2940.6	2311.1	2140.6	2191.6	2172.7	2146.4	2145.0	2153.7
6088.2	30°	5492.2	4419.7	2657.9	2114.4	2060.5	2110.0	2064.8	2060.5	2056.1	2060.5
6349.0	32.5°	5492.2	4129.7	2440.8	1978.9	2009.5	1990.5	1986.2	1976.0	1958.5	1957.0
6703.1	35°	5522.8	3839.7	2254.3	1906.0	1967.2	1922.0	1925.0	1900.2	1863.7	1846.3
7172.3	37.5°	5585.4	3606.6	2069.2	1871.0	1892.9	1891.4	1879.8	1837.5	1773.4	1718.0
7758.1	40°	5737.0	3538.1	1942.4	1855.0	1857.9	1875.4	1844.8	1763.2	1617.5	1527.1
8352.6	42.5°	5974.5	3653.2	1914.8	1815.7	1834.6	1852.1	1792.3	1602.9	1499.5	1445.5
8976.3	45°	6276.1	3854.3	1974.5	1758.8	1779.2	1809.8	1632.1	1541.7	1495.1	1496.5
9594.2	47.5°	6657.9	4065.6	2085.2	1709.3	1699.1	1716.6	1525.7	1470.3	1406.2	1422.2
10187.2	50°	7099.4	4279.8	2190.2	1642.3	1610.2	1553.4	1457.2	1404.7	1323.1	1285.2
10759.9	52.5°	7577.4	4486.7	2232.4	1560.7	1514.0	1448.4	1410.6	1346.4	1247.4	1184.7
11300.5	55°	8030.6	4674.7	2185.8	1463.0	1417.8	1366.8	1361.0	1321.7	1215.3	1127.9
11781.4	57.5°	8459.0	4832.1	2069.2	1363.9	1320.2	1289.6	1329.0	1310.0	1176.0	1063.8
12236.0	60°	8821.8	4939.9	1900.2	1263.4	1232.8	1216.8	1276.5	1270.7	1120.6	995.3
12644.1	62.5°	9110.4	4982.1	1713.7	1167.2	1159.9	1130.8	1203.6	1203.6	1050.6	928.2
13002.5	65°	9336.2	4941.3	1524.2	1072.5	1087.1	1043.4	1114.8	1106.0	976.3	868.5
13414.9	67.5°	9535.9	4807.3	1314.4	979.2	1012.7	957.4	1021.5	1001.1	894.7	808.7
13771.9	70°	9624.8	4495.4	1075.4	886.0	926.8	872.9	928.2	890.3	802.9	744.6
13379.9	72.5°	8910.7	3736.2	846.6	788.3	823.3	779.6	827.7	784.0	703.8	677.6
11554.1	75°	7371.9	2803.6	651.4	682.0	708.2	674.7	706.7	674.7	601.8	620.8
8534.8	77.5°	5353.7	1892.9	498.4	569.8	581.4	563.9	591.6	555.2	489.6	485.2
4253.5	80°	2662.3	1108.9	390.5	450.3	445.9	434.2	466.3	448.8	393.4	416.8
1148.3	82.5°	770.9	475.0	284.2	316.2	307.5	310.4	333.7	342.4	512.9	508.6
357.0	85°	241.9	186.5	170.5	176.3	167.6	171.9	196.7	390.5	361.4	211.3
110.7	87.5°	62.7	64.1	42.3	45.2	46.6	55.4	62.7	237.5	113.7	74.3
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>
4971.9
4734.4
4224.4
3520.6
2974.1
2720.6
2538.4
2475.8
2456.8
2385.4
2265.9
2168.3
2076.5
1976.0
1863.7
1737.0
1538.8
1445.5
1503.8
1463.0
1295.4
1183.2
1127.9
1057.9
990.9
923.9
862.7
802.9
733.0
655.7
566.8
463.4
412.4
520.2
228.8
78.7
0.0

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