

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: P956409

Luminaire Tested: **GALN-SB9A-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956409
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-SB9A-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34723 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

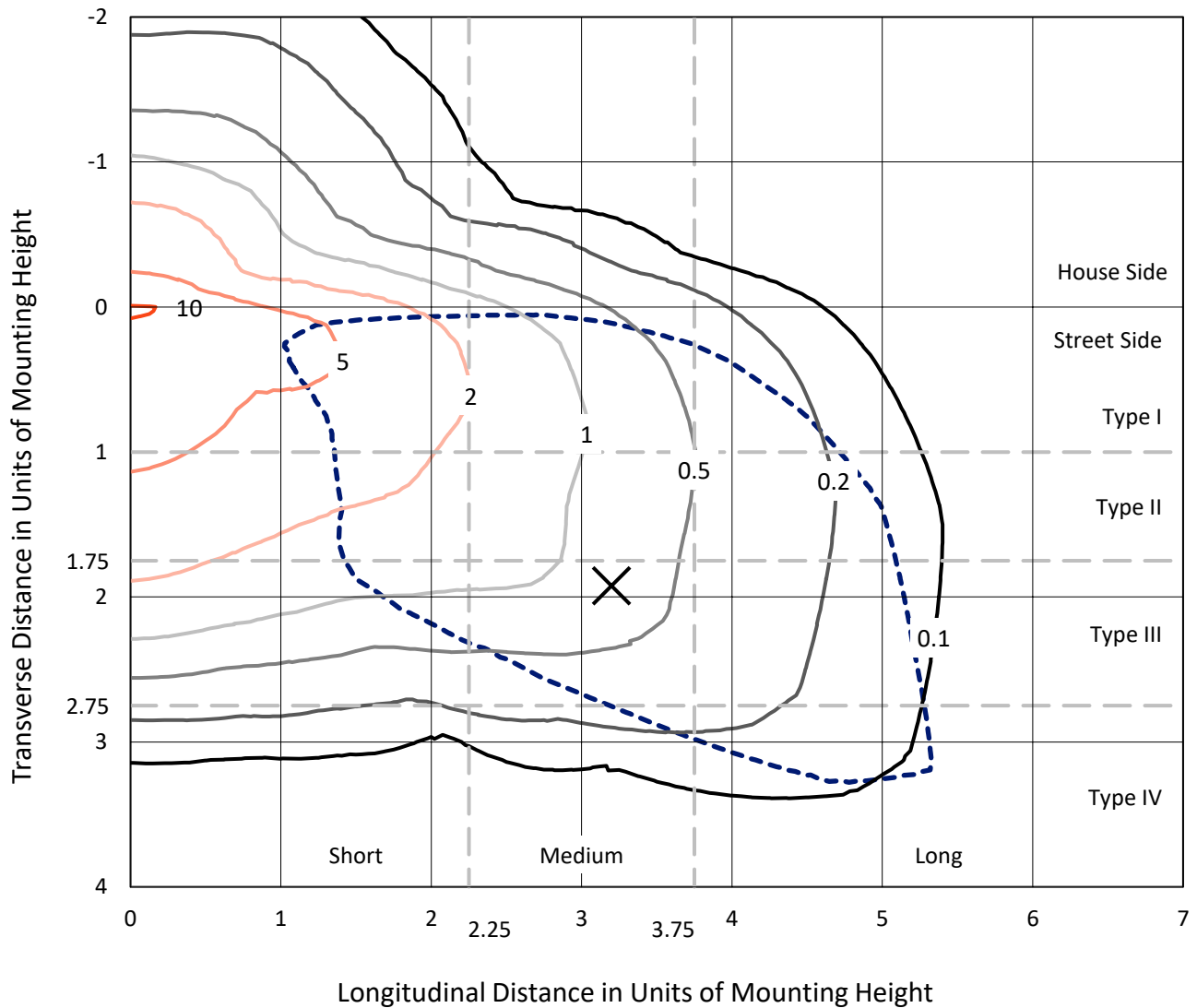
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

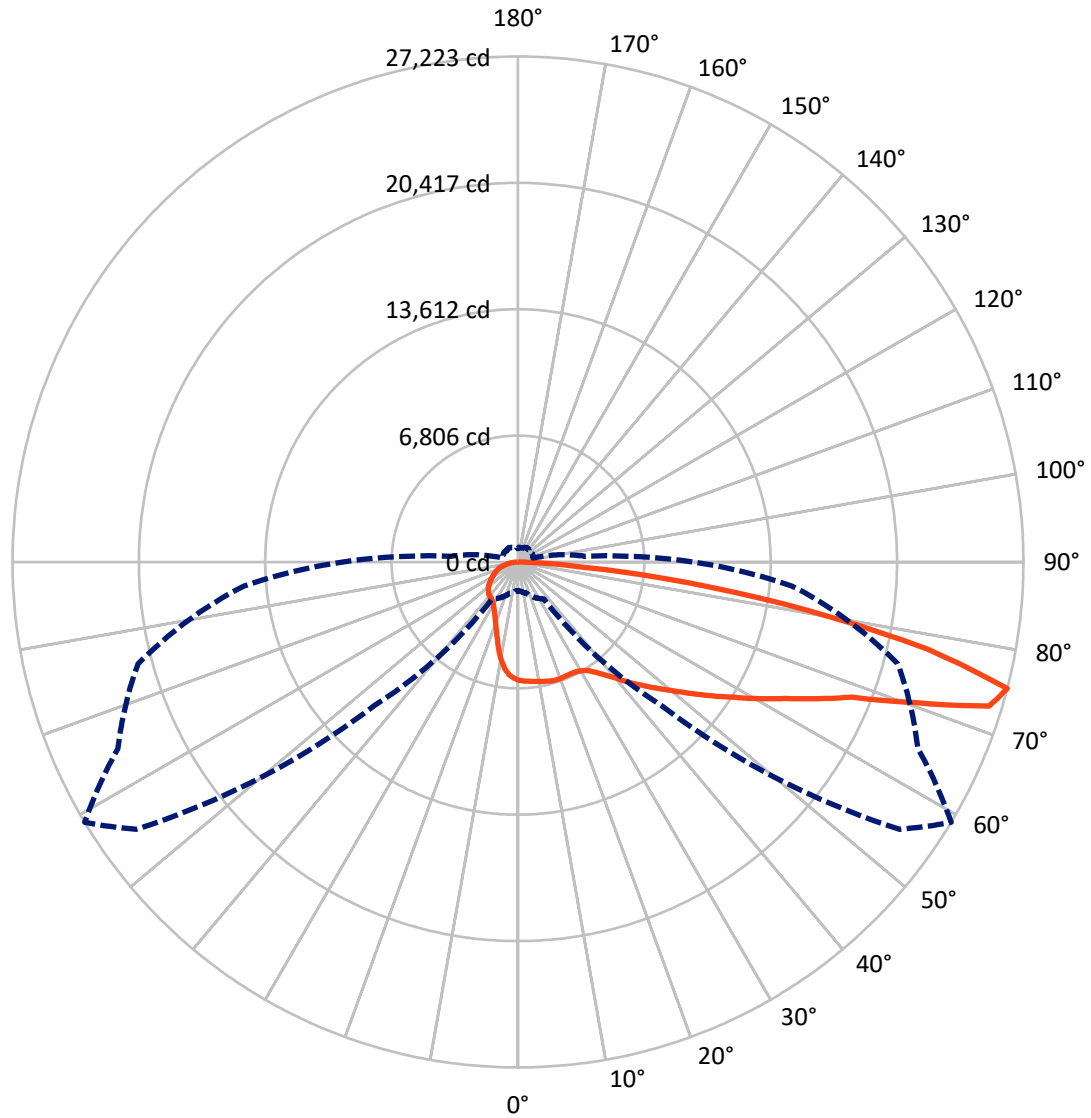
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	6512.5	0.0	6512.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	28210.5	0.0	28210.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	34723.0	0.0	34723.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.5	1.6
10°-20°	1460.7	4.2
20°-30°	2218.7	6.4
30°-40°	3298.1	9.5
40°-50°	4904.8	14.1
50°-60°	6657.7	19.2
60°-70°	8127.9	23.4
70°-80°	6378.7	18.4
80°-90°	1104.9	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°	34723.0	100.0
0°-180°	34723.0	100.0

Coefficient of Utilization



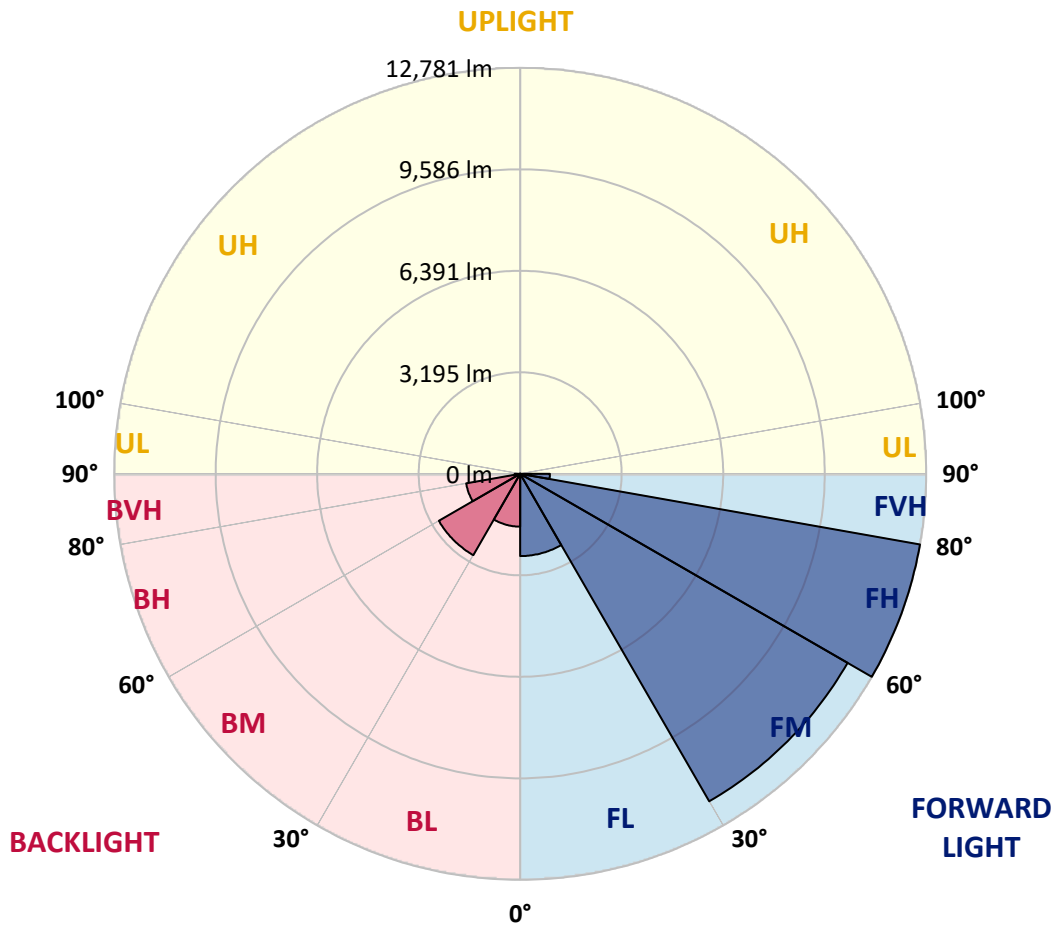
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2589.0	7.5			
FM (30°-60°)	11904.5	34.3			
FH (60°-80°)	12781.2	36.8			G5
FVH (80°-90°)	935.8	2.7			G5
BL (0°-30°)	1661.9	4.8	B3/2500		
BM (30°-60°)	2956.0	8.5	B3/5000		
BH (60°-80°)	1725.4	5.0	B3/2500		G3/2500
BVH (80°-90°)	169.1	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	6373.3	6373.3	6373.3	6373.3	6373.3	6373.3	6373.3	6373.3	6373.3	6373.3
2.5°	6427.5	6405.1	6427.5	6418.2	6414.4	6407.0	6408.8	6421.9	6414.4	6423.8
5°	6384.5	6371.5	6393.9	6388.3	6412.6	6416.3	6440.6	6455.5	6464.9	6466.7
7.5°	6313.6	6300.5	6332.2	6358.4	6410.7	6425.6	6476.1	6500.3	6513.4	6535.8
10°	6053.9	6048.3	6126.8	6225.8	6349.0	6425.6	6502.2	6543.3	6563.9	6623.6
12.5°	5594.4	5601.9	5704.6	5895.1	6141.7	6388.3	6532.1	6591.9	6623.6	6698.3
15°	5155.4	5153.6	5265.7	5469.3	5814.8	6223.9	6547.0	6649.8	6704.0	6814.2
17.5°	4901.4	4893.9	4972.4	5127.4	5448.7	5971.7	6509.7	6681.5	6797.3	6935.6
20°	4854.7	4839.8	4880.9	4957.4	5185.3	5695.3	6412.6	6681.5	6872.1	7051.4
22.5°	5024.7	5000.4	4983.6	4974.3	5075.1	5467.4	6302.3	6659.1	6982.3	7217.6
25°	5366.5	5329.2	5243.2	5159.2	5129.3	5364.7	6205.2	6653.5	7146.6	7441.8
27.5°	5919.4	5872.7	5699.0	5497.3	5316.1	5417.0	6162.3	6687.1	7327.8	7679.0
30°	6605.0	6554.5	6336.0	6025.9	5700.9	5611.2	6216.4	6786.1	7559.5	7994.7
32.5°	7219.5	7163.5	6976.7	6661.0	6222.0	5947.4	6388.3	6974.8	7923.7	8433.6
35°	7764.9	7699.5	7531.4	7240.0	6860.9	6420.0	6698.3	7309.2	8441.1	9147.2
37.5°	8299.2	8222.6	8039.5	7731.3	7466.1	7049.5	7126.1	7738.8	9128.5	10013.9
40°	8896.9	8786.7	8564.4	8259.9	8002.2	7787.3	7688.3	8265.5	9827.1	10981.5
42.5°	9475.9	9371.3	9106.1	8846.5	8523.3	8461.7	8340.2	8881.9	10591.1	12044.3
45°	10099.8	9974.7	9653.4	9324.6	9121.0	8910.0	8971.6	9498.4	11340.1	13127.7
47.5°	10684.5	10544.4	10165.2	9799.1	9687.0	9287.3	9550.7	10176.4	12119.0	14226.0
50°	11000.2	10861.9	10546.3	10215.6	10127.8	9752.4	10178.3	10921.7	12935.3	15320.6
52.5°	11263.5	11114.1	10701.3	10518.2	10492.1	10258.6	10951.6	11773.5	13751.6	16288.2
55°	11543.7	11377.5	10850.7	10686.3	10805.9	10826.4	11868.7	12739.2	14614.6	17231.5
57.5°	11866.9	11655.8	10994.6	10828.3	11112.2	11491.4	12922.2	13740.4	15462.6	18105.7
60°	12171.3	11958.4	11271.0	11054.3	11442.9	12262.9	14130.8	14952.7	16422.7	18884.6
62.5°	12231.1	12055.5	11491.4	11489.6	11891.2	13163.2	15561.6	16176.2	17261.4	19654.2
65°	11196.3	11086.1	10751.7	11472.7	12533.7	14459.5	17154.9	17741.5	18328.0	20326.7
67.5°	8521.4	8536.4	8512.1	9903.7	12014.4	16321.8	19461.8	19417.0	19644.9	21081.3
70°	3896.5	3984.3	4555.8	6836.6	9625.4	16536.7	23276.1	22695.2	21298.0	22058.2
72.5°	2105.1	2172.4	2405.9	3311.8	5786.8	14702.4	26126.5	26539.4	23496.5	22715.7
75°	1544.8	1582.1	1744.6	2105.1	2430.2	10927.3	25104.8	27223.0	23771.1	21182.2
77.5°	1156.2	1173.1	1305.7	1668.0	1244.0	5760.7	20059.5	22545.7	20349.1	17403.4
80°	838.7	857.4	956.4	1251.5	872.3	2107.0	13774.0	15825.0	13936.5	11093.6
82.5°	579.1	586.5	629.5	851.8	608.9	818.1	7815.4	9279.8	7779.9	3892.7
85°	349.3	358.6	377.3	496.9	345.6	388.5	3373.5	3489.3	2325.6	930.2
87.5°	143.8	153.2	168.1	209.2	136.4	108.3	556.6	698.6	435.2	272.7
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°
6373.3	0°	6373.3	6373.3	6373.3	6373.3	6373.3	6373.3	6373.3	6373.3	6373.3	6373.3
6392.0	2.5°	6382.7	6369.6	6334.1	6285.5	6240.7	6184.7	6160.4	6139.8	6121.2	6085.7
6442.4	5°	6421.9	6386.4	6291.1	6167.9	6027.8	5874.6	5725.2	5622.4	5534.6	5469.3
6500.3	7.5°	6481.7	6414.4	6240.7	5988.5	5667.3	5338.5	5041.5	4830.4	4671.7	4613.8
6582.5	10°	6543.3	6463.0	6160.4	5715.8	5161.1	4654.8	4260.7	4044.0	3917.0	3875.9
6679.7	12.5°	6616.2	6498.5	6035.2	5336.6	4595.1	4040.3	3696.6	3569.6	3504.2	3481.8
6799.2	15°	6722.6	6528.4	5846.6	4862.2	4055.2	3592.0	3369.7	3281.9	3248.3	3246.4
6922.5	17.5°	6802.9	6534.0	5553.3	4354.1	3640.6	3321.2	3138.1	3104.5	3126.9	3160.5
7043.9	20°	6892.6	6483.5	5168.5	3890.9	3349.2	3083.9	3007.3	3029.8	3083.9	3132.5
7204.6	22.5°	6956.1	6392.0	4703.4	3530.4	3097.0	2947.6	2943.8	2990.5	3020.4	3044.7
7393.2	25°	7012.2	6237.0	4210.3	3227.8	2889.7	2865.4	2906.5	2891.5	2871.0	2891.5
7581.9	27.5°	7053.3	5992.3	3769.5	2962.5	2744.0	2809.3	2785.1	2751.4	2749.6	2760.8
7804.2	30°	7040.2	5665.4	3407.1	2710.3	2641.2	2704.7	2646.8	2641.2	2635.6	2641.2
8138.5	32.5°	7040.2	5293.7	3128.8	2536.6	2575.9	2551.6	2546.0	2532.9	2510.5	2508.6
8592.4	35°	7079.4	4922.0	2889.7	2443.2	2521.7	2463.8	2467.5	2435.8	2389.1	2366.6
9193.9	37.5°	7159.7	4623.1	2652.4	2398.4	2426.4	2424.6	2409.6	2355.4	2273.3	2202.3
9944.8	40°	7354.0	4535.3	2489.9	2377.9	2381.6	2404.0	2364.8	2260.2	2073.4	1957.6
10706.9	42.5°	7658.5	4682.9	2454.4	2327.4	2351.7	2374.1	2297.5	2054.7	1922.1	1853.0
11506.4	45°	8045.1	4940.6	2531.0	2254.6	2280.7	2320.0	2092.1	1976.3	1916.5	1918.3
12298.4	47.5°	8534.5	5211.5	2673.0	2191.1	2178.0	2200.4	1955.7	1884.7	1802.5	1823.1
13058.6	50°	9100.5	5486.1	2807.5	2105.1	2064.0	1991.2	1867.9	1800.7	1696.1	1647.5
13792.7	52.5°	9713.2	5751.3	2861.6	2000.5	1940.8	1856.7	1808.1	1726.0	1598.9	1518.6
14485.7	55°	10294.1	5992.3	2801.9	1875.4	1817.5	1752.1	1744.6	1694.2	1557.8	1445.8
15102.1	57.5°	10843.3	6194.0	2652.4	1748.4	1692.3	1653.1	1703.5	1679.3	1507.4	1363.6
15684.9	60°	11308.4	6332.2	2435.8	1619.5	1580.3	1559.7	1636.3	1628.8	1436.4	1275.8
16207.9	62.5°	11678.2	6386.4	2196.7	1496.2	1486.9	1449.5	1542.9	1542.9	1346.8	1189.9
16667.4	65°	11967.7	6334.1	1953.8	1374.8	1393.5	1337.4	1429.0	1417.7	1251.5	1113.3
17196.0	67.5°	12223.6	6162.3	1684.9	1255.2	1298.2	1227.2	1309.4	1283.3	1146.9	1036.7
17653.7	70°	12337.6	5762.5	1378.5	1135.7	1188.0	1118.9	1189.9	1141.3	1029.2	954.5
17151.2	72.5°	11422.3	4789.3	1085.3	1010.5	1055.4	999.3	1061.0	1004.9	902.2	868.6
14810.7	75°	9449.8	3593.9	835.0	874.2	907.8	864.8	905.9	864.8	771.4	795.7
10940.4	77.5°	6862.7	2426.4	638.8	730.4	745.3	722.9	758.4	711.7	627.6	622.0
5452.4	80°	3412.7	1421.5	500.6	577.2	571.6	556.6	597.7	575.3	504.3	534.2
1471.9	82.5°	988.1	608.9	364.2	405.3	394.1	397.9	427.8	439.0	657.5	651.9
457.6	85°	310.1	239.1	218.5	226.0	214.8	220.4	252.2	500.6	463.2	270.8
142.0	87.5°	80.3	82.2	54.2	57.9	59.8	71.0	80.3	304.5	145.7	95.3
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>
6373.3
6068.9
5415.1
4512.9
3812.4
3487.4
3253.9
3173.6
3149.3
3057.8
2904.6
2779.5
2661.8
2532.9
2389.1
2226.6
1972.5
1853.0
1927.7
1875.4
1660.6
1516.7
1445.8
1356.1
1270.2
1184.3
1105.8
1029.2
939.6
840.6
726.6
594.0
528.6
666.8
293.3
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