

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: P944254

Luminaire Tested: **GALN-SB9A-840-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28538 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

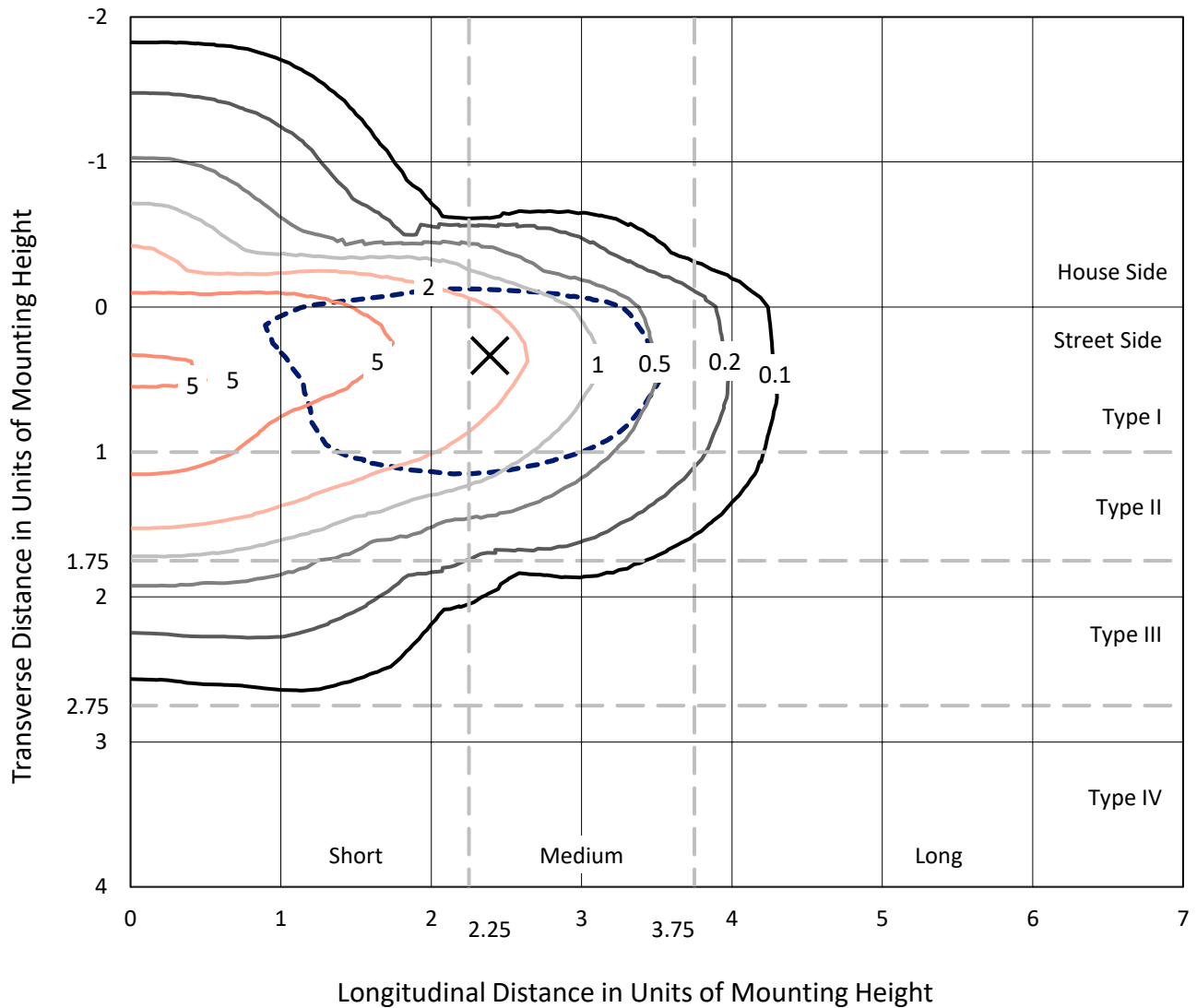
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

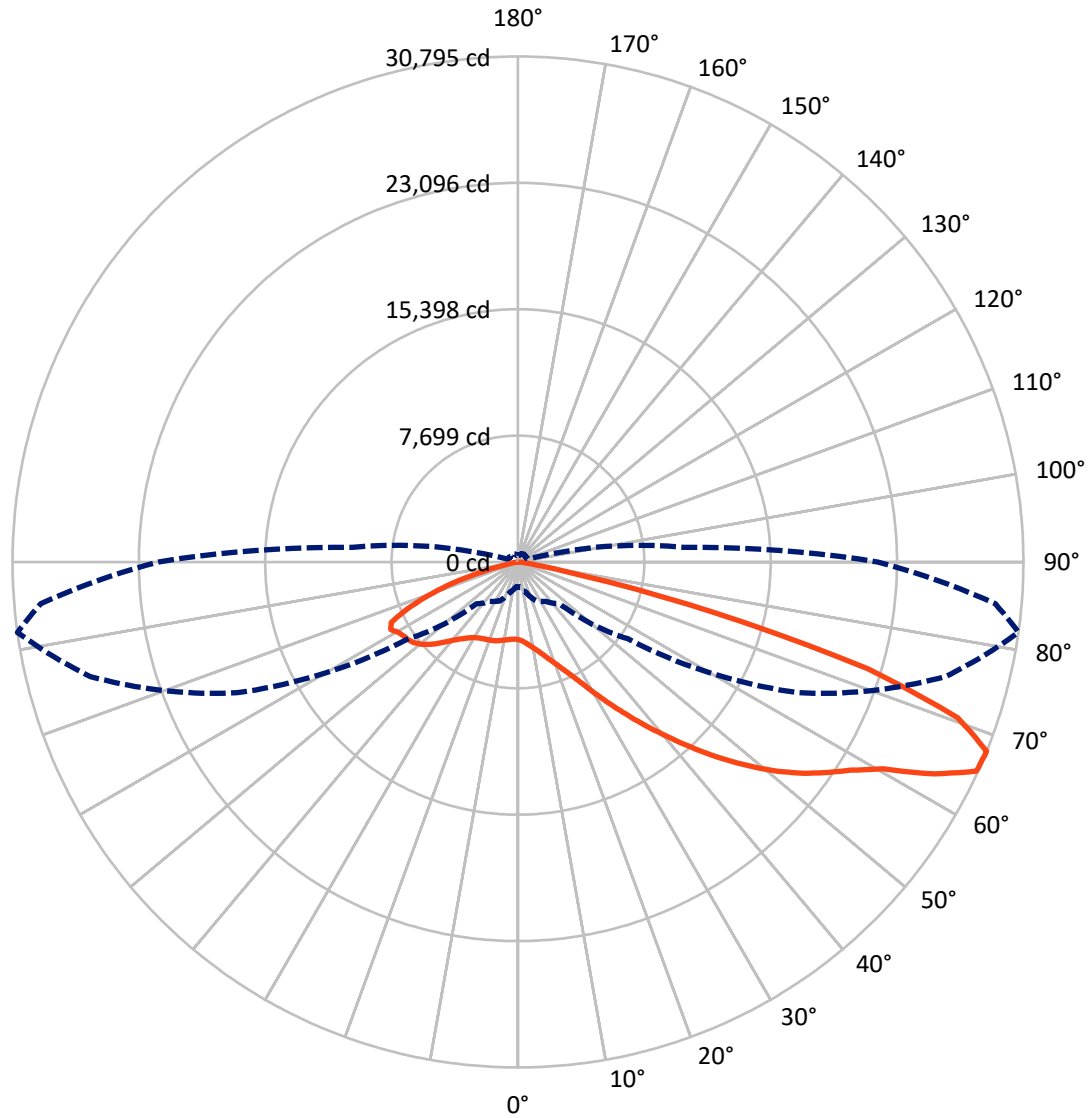
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5169.4	0.0	5169.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23368.6	0.0	23368.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	28538.0	0.0	28538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.2	1.5
10°-20°	1094.6	3.8
20°-30°	1753.1	6.1
30°-40°	3100.1	10.9
40°-50°	5431.6	19.0
50°-60°	7244.3	25.4
60°-70°	6744.0	23.6
70°-80°	2588.4	9.1
80°-90°	160.8	0.6
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°	28538.0	100.0
0°-180°	28538.0	100.0

Coefficient of Utilization



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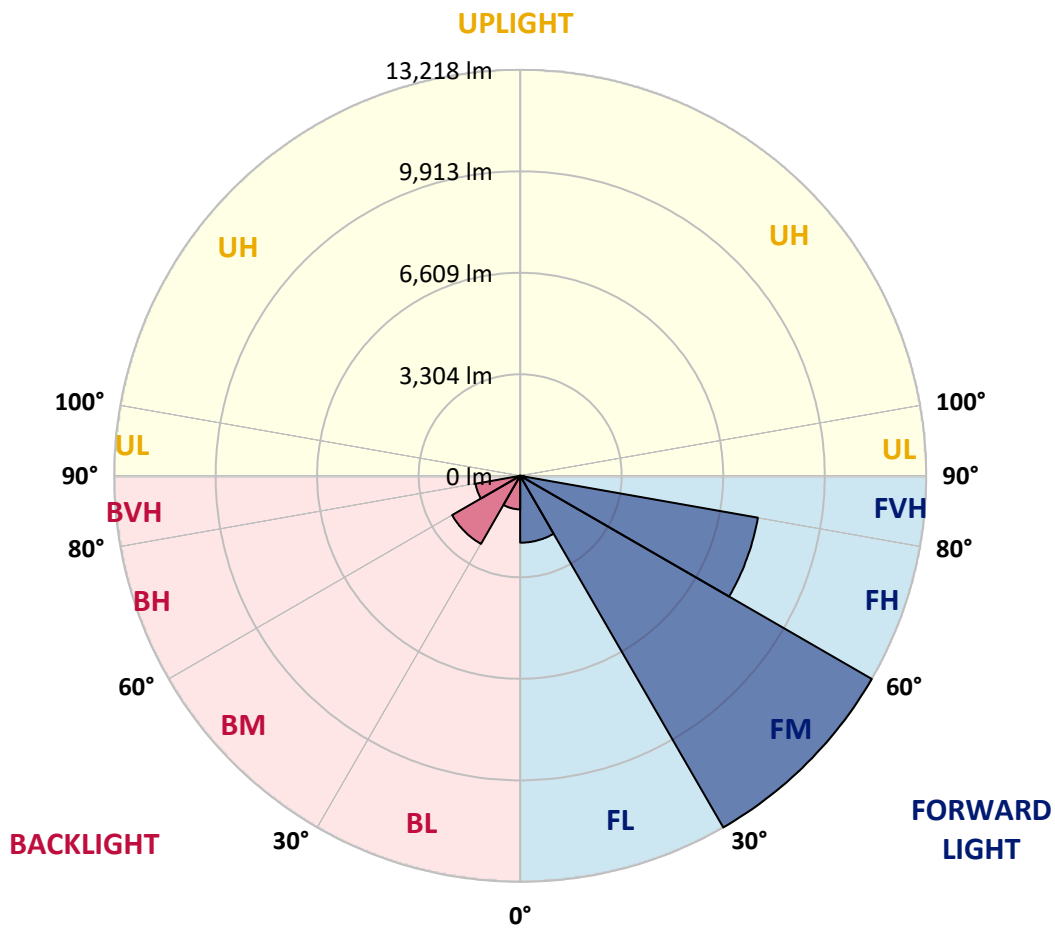
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2177.1	7.6			
FM (30°-60°)	13217.6	46.3			
FH (60°-80°)	7856.9	27.5			G4/12000
FVH (80°-90°)	116.9	0.4			G2/225
BL (0°-30°)	1091.8	3.8	B3/2500		
BM (30°-60°)	2558.3	9.0	B3/5000		
BH (60°-80°)	1475.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	43.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4727.8	4727.8	4727.8	4727.8	4727.8	4727.8	4727.8	4727.8	4727.8	4727.8
2.5°	4996.9	5025.7	5009.3	5001.1	4986.7	4966.1	4949.7	4898.3	4844.9	4810.0
5°	5097.6	5126.4	5124.3	5132.5	5142.8	5149.0	5144.9	5087.3	5011.3	4951.7
7.5°	5011.3	5044.2	5070.9	5112.0	5183.9	5259.9	5296.9	5284.6	5206.5	5124.3
10°	4766.8	4801.7	4865.4	4962.0	5114.1	5278.4	5416.1	5479.8	5430.5	5340.1
12.5°	4318.9	4353.8	4479.2	4688.7	4943.5	5229.1	5492.1	5662.7	5675.0	5584.6
15°	3815.5	3850.4	3984.0	4247.0	4635.3	5093.5	5533.2	5855.8	5964.7	5886.6
17.5°	3503.2	3534.0	3634.7	3846.3	4251.1	4822.3	5518.8	6061.3	6309.9	6248.2
20°	3408.7	3435.4	3482.7	3630.6	3967.6	4540.8	5424.3	6254.4	6681.8	6646.8
22.5°	3509.4	3534.0	3548.4	3614.2	3825.8	4355.9	5305.1	6451.6	7113.2	7117.4
25°	3741.5	3766.2	3749.8	3790.9	3883.3	4298.4	5259.9	6683.8	7655.7	7700.9
27.5°	4123.7	4125.8	4086.7	4084.7	4099.1	4384.7	5307.2	6932.4	8339.9	8424.1
30°	4890.1	4859.3	4709.3	4547.0	4473.0	4643.5	5438.7	7226.3	9147.4	9297.4
32.5°	6071.5	6026.3	5751.0	5362.7	4972.3	5060.6	5675.0	7561.2	10026.8	10298.0
35°	7353.6	7341.3	7053.7	6476.3	5794.2	5654.4	6059.2	8000.9	10986.3	11417.8
37.5°	8545.3	8539.2	8374.8	7694.7	6864.6	6482.5	6675.6	8576.2	12013.6	12638.2
40°	9634.3	9652.8	9488.4	8880.3	8044.0	7544.7	7513.9	9287.1	13156.0	13967.6
42.5°	10575.4	10595.9	10429.5	9979.5	9209.0	8720.0	8543.3	10158.3	14271.7	15395.6
45°	11214.4	11341.7	11317.1	10957.5	10404.8	9897.3	9780.2	11251.3	15543.5	16909.9
47.5°	11395.2	11512.3	11697.2	11746.5	11409.5	10910.3	11050.0	12568.4	16829.7	18426.2
50°	10949.3	11058.2	11442.4	11954.0	12188.3	12034.2	12284.8	13979.9	18146.8	19938.5
52.5°	10069.9	10180.9	10665.8	11475.3	12430.7	12915.6	13523.8	15370.9	19422.7	21370.6
55°	8798.1	8915.2	9537.7	10454.1	11968.4	13279.3	14557.3	16759.9	20591.8	22658.8
57.5°	7068.0	7154.3	7801.6	9083.7	10805.5	12917.7	15319.6	18276.2	21693.1	23924.5
60°	4606.6	4682.6	5434.6	6864.6	8878.2	11709.5	15471.6	19967.2	23156.1	25570.3
62.5°	3063.5	3114.9	3560.7	4610.7	6252.3	9389.8	14581.9	21317.1	25301.1	28434.5
65°	2101.9	2153.3	2599.1	3330.6	4039.5	6211.2	12023.9	21138.4	27244.8	30709.0
67.5°	1499.9	1543.1	1921.1	2611.5	2923.8	3608.0	8150.9	18853.6	26965.4	30795.3
70°	1074.6	1099.2	1411.6	2034.1	2323.8	2167.7	4532.6	14419.6	23610.1	28436.5
72.5°	752.0	760.2	980.1	1549.2	1871.8	1582.1	2157.4	9613.8	17857.1	22319.8
75°	509.6	519.8	659.5	1136.2	1502.0	1208.1	1142.4	5155.2	10482.9	12354.7
77.5°	312.3	316.4	425.3	776.7	1123.9	920.5	735.6	2184.1	4055.9	3981.9
80°	176.7	176.7	271.2	482.8	766.4	593.8	515.7	928.7	1284.2	1128.0
82.5°	98.6	100.7	197.2	300.0	507.5	351.3	283.5	429.4	554.8	491.1
85°	41.1	45.2	121.2	141.8	242.5	174.6	115.1	180.8	205.5	182.9
87.5°	4.1	6.2	37.0	26.7	28.8	34.9	16.4	34.9	28.8	28.8
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°
4727.8	0°	4727.8	4727.8	4727.8	4727.8	4727.8	4727.8	4727.8	4727.8	4727.8	4727.8
4797.6	2.5°	4758.6	4727.8	4649.7	4559.3	4440.1	4382.6	4304.5	4251.1	4205.9	4210.0
4916.8	5°	4851.1	4773.0	4598.3	4380.5	4109.3	3916.2	3710.7	3569.0	3453.9	3429.2
5081.2	7.5°	4978.4	4855.2	4549.0	4156.6	3698.4	3351.2	3040.9	2841.6	2699.8	2654.6
5280.5	10°	5142.8	4964.1	4485.3	3875.1	3215.5	2773.8	2440.9	2284.8	2188.2	2155.3
5514.7	12.5°	5333.9	5089.4	4401.1	3532.0	2718.3	2293.0	2081.4	2003.3	1972.5	1962.2
5802.4	15°	5574.3	5245.6	4273.7	3125.1	2297.1	1999.2	1908.8	1898.5	1902.6	1898.5
6147.6	17.5°	5859.9	5416.1	4066.2	2706.0	2013.6	1849.2	1816.3	1824.5	1834.8	1832.8
6533.8	20°	6172.2	5584.6	3801.1	2334.1	1820.4	1742.4	1723.9	1732.1	1740.3	1736.2
6979.7	22.5°	6527.7	5765.4	3507.3	2044.4	1691.0	1643.7	1623.2	1625.2	1625.2	1617.0
7544.7	25°	6953.0	5964.7	3199.1	1838.9	1592.4	1555.4	1530.7	1522.5	1510.2	1485.5
8231.0	27.5°	7460.5	6176.3	2903.2	1695.1	1514.3	1479.4	1450.6	1430.0	1399.2	1358.1
9054.9	30°	8031.7	6433.2	2652.6	1604.7	1452.6	1417.7	1384.8	1354.0	1308.8	1257.5
10002.1	32.5°	8703.6	6708.5	2469.7	1545.1	1397.2	1360.2	1321.1	1284.2	1234.9	1183.5
11066.4	35°	9504.9	7041.3	2362.9	1504.0	1354.0	1304.7	1261.6	1220.5	1183.5	1138.3
12223.2	37.5°	10374.0	7394.7	2330.0	1483.5	1325.3	1249.2	1199.9	1171.2	1167.0	1140.3
13474.5	40°	11325.3	7813.9	2354.6	1471.1	1294.4	1195.8	1142.4	1136.2	1146.5	1099.2
14812.1	42.5°	12332.1	8311.1	2395.7	1456.8	1251.3	1142.4	1091.0	1091.0	1082.8	1017.1
16225.7	45°	13421.1	8884.4	2436.8	1421.8	1199.9	1089.0	1049.9	1035.6	1000.6	936.9
17647.5	47.5°	14518.3	9467.9	2467.7	1358.1	1138.3	1043.8	1008.8	976.0	924.6	867.1
19042.6	50°	15560.0	9991.8	2434.8	1263.6	1068.4	1000.6	963.6	918.4	863.0	823.9
20363.8	52.5°	16490.7	10445.9	2295.1	1152.7	994.5	955.4	922.5	875.3	830.1	789.0
21555.5	55°	17300.3	10813.7	2048.5	1047.9	928.7	916.4	883.5	823.9	762.3	727.4
22736.9	57.5°	18076.9	11093.1	1740.3	961.6	869.1	873.2	823.9	770.5	713.0	676.0
24329.3	60°	19110.4	11467.1	1428.0	881.5	805.4	817.8	764.3	725.3	653.4	606.1
27059.9	62.5°	20762.4	12048.5	1134.2	782.8	731.5	735.6	713.0	665.7	579.4	523.9
29083.8	65°	22073.3	11834.9	893.8	676.0	647.2	653.4	653.4	602.0	509.6	445.9
29192.7	67.5°	21925.3	10133.6	713.0	571.2	567.1	571.2	585.6	542.4	452.0	400.7
26969.5	70°	20197.3	8060.4	571.2	474.6	493.1	482.8	523.9	495.2	406.8	355.5
20908.3	72.5°	16480.5	5806.5	435.6	392.4	378.1	394.5	472.6	445.9	339.0	281.5
11074.6	75°	9630.2	3098.4	324.6	310.3	273.3	328.7	419.2	380.1	258.9	207.5
3394.3	77.5°	3135.4	1080.8	238.3	228.1	203.4	265.1	357.5	320.5	211.6	164.4
994.5	80°	840.4	326.7	162.3	150.0	131.5	197.2	283.5	254.8	152.0	106.8
427.4	82.5°	337.0	137.7	94.5	84.2	71.9	135.6	224.0	205.5	113.0	67.8
133.6	85°	108.9	45.2	34.9	26.7	32.9	84.2	133.6	139.7	80.1	34.9
20.5	87.5°	14.4	6.2	6.2	8.2	6.2	14.4	41.1	39.0	22.6	4.1
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>
4727.8
4168.9
3373.8
2609.4
2130.7
1956.0
1896.5
1828.7
1734.1
1612.9
1481.4
1354.0
1253.3
1185.5
1134.2
1138.3
1101.3
1017.1
934.9
865.0
817.8
784.9
723.2
671.9
600.0
519.8
439.7
392.4
349.3
275.3
201.4
158.2
104.8
67.8
26.7
0.0
0.0

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