

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: P944194

Luminaire Tested: **GALN-SB9A-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944194
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-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 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: 31565 lumens
Efficiency: N/A
Efficacy: 123.5 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

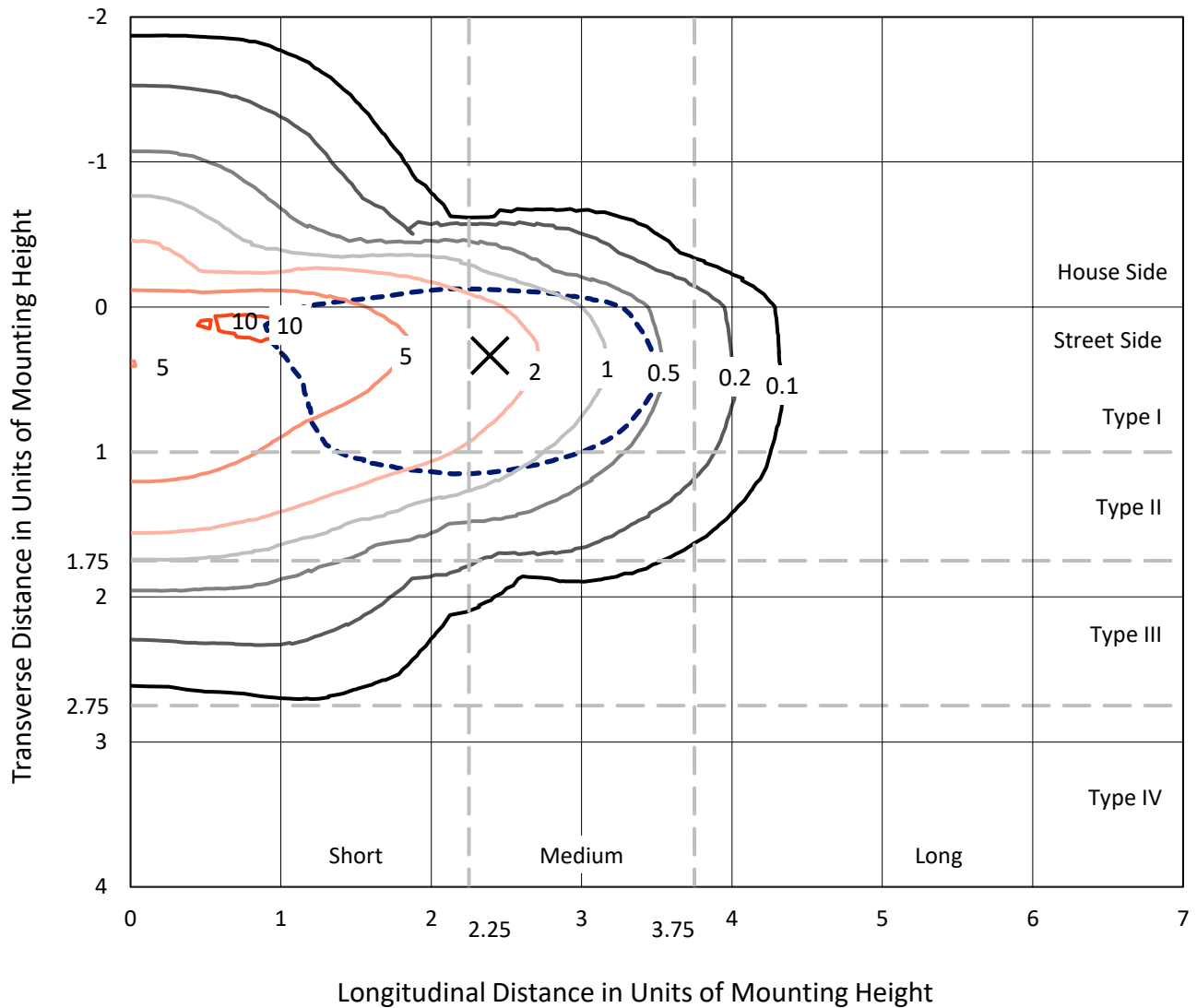
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

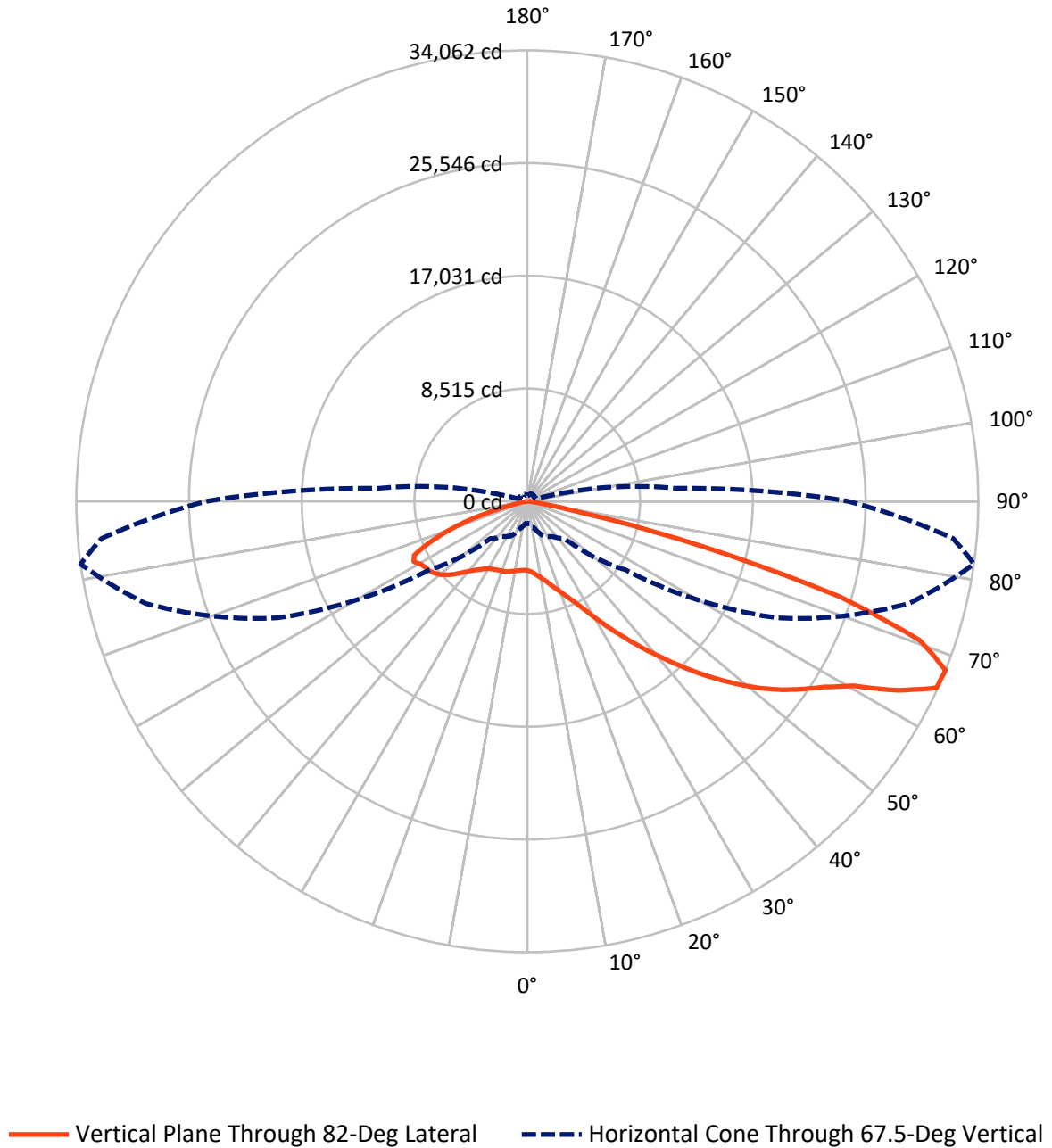
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5717.7	0.0	5717.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	25847.3	0.0	25847.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	31565.0	0.0	31565.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.9	1.5
10°-20°	1210.7	3.8
20°-30°	1939.1	6.1
30°-40°	3428.9	10.9
40°-50°	6007.8	19.0
50°-60°	8012.7	25.4
60°-70°	7459.4	23.6
70°-80°	2862.9	9.1
80°-90°	177.8	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°	31565.0	100.0
0°-180°	31565.0	100.0



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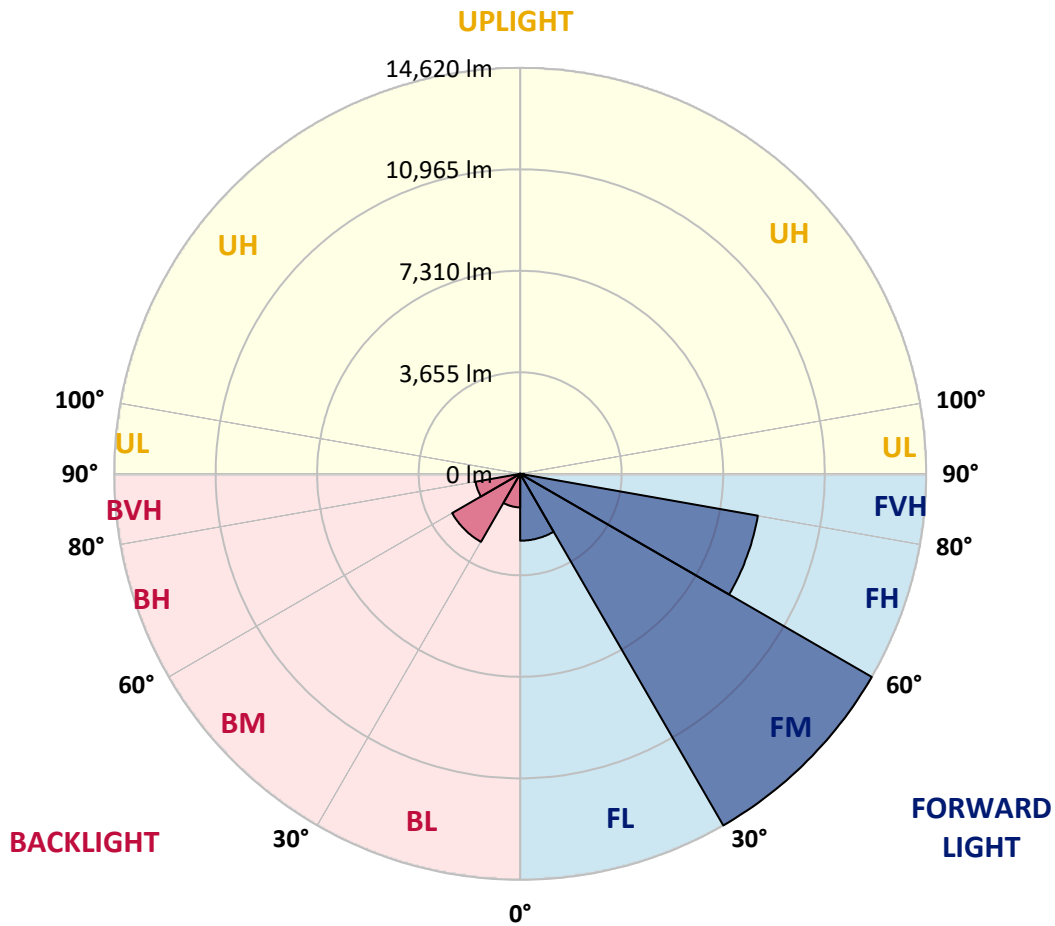
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2408.1	7.6			
FM (30°-60°)	14619.6	46.3			
FH (60°-80°)	8690.3	27.5			G4/12000
FVH (80°-90°)	129.3	0.4			G2/225
BL (0°-30°)	1207.6	3.8	B3/2500		
BM (30°-60°)	2829.7	9.0	B3/5000		
BH (60°-80°)	1632.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	48.5	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°	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3
2.5°	5527.0	5558.8	5540.6	5531.5	5515.6	5492.9	5474.7	5417.9	5358.8	5320.2
5°	5638.3	5670.1	5667.9	5677.0	5688.3	5695.1	5690.6	5627.0	5542.9	5477.0
7.5°	5542.9	5579.2	5608.8	5654.2	5733.8	5817.9	5858.8	5845.1	5758.8	5667.9
10°	5272.4	5311.1	5381.5	5488.3	5656.5	5838.3	5990.6	6061.0	6006.5	5906.5
12.5°	4777.0	4815.6	4954.3	5186.1	5467.9	5783.8	6074.7	6263.3	6276.9	6176.9
15°	4220.2	4258.9	4406.6	4697.5	5127.0	5633.8	6120.1	6476.9	6597.4	6511.0
17.5°	3874.8	3908.9	4020.2	4254.3	4702.0	5333.8	6104.2	6704.2	6979.2	6911.0
20°	3770.2	3799.8	3852.1	4015.7	4388.4	5022.4	5999.7	6917.8	7390.5	7351.9
22.5°	3881.6	3908.9	3924.8	3997.5	4231.6	4817.9	5867.9	7136.0	7867.7	7872.3
25°	4138.4	4165.7	4147.5	4192.9	4295.2	4754.3	5817.9	7392.8	8467.7	8517.7
27.5°	4561.1	4563.4	4520.2	4517.9	4533.8	4849.7	5870.1	7667.8	9224.5	9317.7
30°	5408.8	5374.7	5208.8	5029.3	4947.4	5136.1	6015.6	7992.7	10117.6	10283.5
32.5°	6715.5	6665.5	6361.0	5931.5	5499.7	5597.4	6276.9	8363.2	11090.3	11390.3
35°	8133.6	8120.0	7801.8	7163.2	6408.7	6254.2	6701.9	8849.5	12151.6	12628.8
37.5°	9451.7	9444.9	9263.1	8510.9	7592.8	7170.1	7383.7	9485.8	13287.9	13978.8
40°	10656.2	10676.7	10494.9	9822.2	8897.2	8345.0	8310.9	10272.2	14551.5	15449.1
42.5°	11697.1	11719.8	11535.7	11038.0	10185.8	9644.9	9449.5	11235.7	15785.5	17028.6
45°	12403.9	12544.8	12517.5	12119.8	11508.4	10947.1	10817.6	12444.8	17192.2	18703.5
47.5°	12603.8	12733.4	12937.9	12992.5	12619.7	12067.5	12222.0	13901.5	18614.9	20380.7
50°	12110.7	12231.1	12656.1	13222.0	13481.1	13310.6	13587.9	15462.8	20071.6	22053.3
52.5°	11138.0	11260.7	11797.1	12692.5	13749.2	14285.6	14958.3	17001.3	21482.9	23637.3
55°	9731.3	9860.8	10549.4	11563.0	13237.9	14687.8	16101.4	18537.6	22776.0	25062.2
57.5°	7817.7	7913.2	8629.1	10047.2	11951.6	14287.8	16944.5	20214.8	23994.1	26462.2
60°	5095.2	5179.3	6011.0	7592.8	9819.9	12951.5	17112.7	22085.1	25612.2	28282.5
62.5°	3388.4	3445.3	3938.4	5099.7	6915.5	10385.8	16128.6	23578.2	27984.8	31450.5
65°	2324.9	2381.7	2874.8	3683.9	4467.9	6870.1	13299.3	23380.5	30134.7	33966.3
67.5°	1659.0	1706.7	2124.9	2888.5	3233.9	3990.7	9015.4	20853.4	29825.6	34061.7
70°	1188.6	1215.8	1561.3	2249.9	2570.3	2397.6	5013.4	15949.1	26114.4	31452.8
72.5°	831.8	840.9	1084.0	1713.5	2070.3	1749.9	2386.2	10633.5	19751.2	24687.3
75°	563.6	575.0	729.5	1256.7	1661.3	1336.3	1263.6	5702.0	11594.8	13665.1
77.5°	345.4	350.0	470.4	859.0	1243.1	1018.1	813.6	2415.8	4486.1	4404.3
80°	195.4	195.4	300.0	534.1	847.7	656.8	570.4	1027.2	1420.4	1247.7
82.5°	109.1	111.4	218.2	331.8	561.3	388.6	313.6	475.0	613.6	543.2
85°	45.5	50.0	134.1	156.8	268.2	193.2	127.3	200.0	227.3	202.3
87.5°	4.5	6.8	40.9	29.5	31.8	38.6	18.2	38.6	31.8	31.8
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°
5229.3	0°	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3
5306.5	2.5°	5263.3	5229.3	5142.9	5042.9	4911.1	4847.5	4761.1	4702.0	4652.0	4656.6
5438.3	5°	5365.6	5279.2	5086.1	4845.2	4545.2	4331.6	4104.3	3947.5	3820.2	3793.0
5620.1	7.5°	5506.5	5370.2	5031.5	4597.5	4090.7	3706.6	3363.4	3143.0	2986.2	2936.2
5840.6	10°	5688.3	5490.6	4961.1	4286.1	3556.6	3068.0	2699.8	2527.1	2420.3	2384.0
6099.7	12.5°	5899.7	5629.2	4867.9	3906.6	3006.6	2536.2	2302.1	2215.8	2181.7	2170.3
6417.8	15°	6165.6	5801.9	4727.0	3456.6	2540.8	2211.2	2111.2	2099.9	2104.4	2099.9
6799.6	17.5°	6481.5	5990.6	4497.5	2993.0	2227.1	2045.3	2009.0	2018.1	2029.4	2027.2
7226.9	20°	6826.9	6176.9	4204.3	2581.7	2013.5	1927.2	1906.7	1915.8	1924.9	1920.3
7720.0	22.5°	7220.0	6376.9	3879.3	2261.2	1870.3	1818.1	1795.4	1797.6	1797.6	1788.5
8345.0	25°	7690.5	6597.4	3538.4	2034.0	1761.3	1720.4	1693.1	1684.0	1670.4	1643.1
9104.0	27.5°	8251.8	6831.4	3211.2	1874.9	1674.9	1636.3	1604.5	1581.7	1547.6	1502.2
10015.3	30°	8883.6	7115.5	2933.9	1774.9	1606.7	1568.1	1531.7	1497.6	1447.6	1390.8
11063.0	32.5°	9626.7	7420.0	2731.7	1709.0	1545.4	1504.5	1461.3	1420.4	1365.8	1309.0
12240.2	35°	10513.0	7788.2	2613.5	1663.5	1497.6	1443.1	1395.4	1349.9	1309.0	1259.0
13519.7	37.5°	11474.4	8179.1	2577.1	1640.8	1465.8	1381.7	1327.2	1295.4	1290.8	1261.3
14903.7	40°	12526.6	8642.7	2604.4	1627.2	1431.7	1322.7	1263.6	1256.7	1268.1	1215.8
16383.2	42.5°	13640.1	9192.7	2649.9	1611.3	1384.0	1263.6	1206.8	1206.8	1197.7	1124.9
17946.7	45°	14844.6	9826.7	2695.3	1572.6	1327.2	1204.5	1161.3	1145.4	1106.8	1036.3
19519.4	47.5°	16058.2	10472.1	2729.4	1502.2	1259.0	1154.5	1115.8	1079.5	1022.7	959.0
21062.5	50°	17210.4	11051.7	2693.0	1397.6	1181.8	1106.8	1065.8	1015.9	954.5	911.3
22523.7	52.5°	18239.9	11553.9	2538.5	1274.9	1099.9	1056.8	1020.4	968.1	918.1	872.7
23841.8	55°	19135.3	11960.7	2265.8	1159.0	1027.2	1013.6	977.2	911.3	843.1	804.5
25148.6	57.5°	19994.3	12269.8	1924.9	1063.6	961.3	965.9	911.3	852.2	788.6	747.7
26909.9	60°	21137.5	12683.4	1579.5	974.9	890.9	904.5	845.4	802.2	722.7	670.4
29930.1	62.5°	22964.6	13326.5	1254.5	865.9	809.0	813.6	788.6	736.3	640.9	579.5
32168.7	65°	24414.5	13090.2	988.6	747.7	715.9	722.7	722.7	665.9	563.6	493.2
32289.1	67.5°	24250.9	11208.5	788.6	631.8	627.2	631.8	647.7	600.0	500.0	443.2
29830.1	70°	22339.7	8915.4	631.8	525.0	545.4	534.1	579.5	547.7	450.0	393.2
23126.0	72.5°	18228.5	6422.4	481.8	434.1	418.2	436.3	522.7	493.2	375.0	311.3
12249.3	75°	10651.7	3427.1	359.1	343.2	302.3	363.6	463.6	420.4	286.3	229.5
3754.3	77.5°	3468.0	1195.4	263.6	252.3	225.0	293.2	395.4	354.5	234.1	181.8
1099.9	80°	929.5	361.3	179.5	165.9	145.4	218.2	313.6	281.8	168.2	118.2
472.7	82.5°	372.7	152.3	104.5	93.2	79.5	150.0	247.7	227.3	125.0	75.0
147.7	85°	120.4	50.0	38.6	29.5	36.4	93.2	147.7	154.5	88.6	38.6
22.7	87.5°	15.9	6.8	6.8	9.1	6.8	15.9	45.5	43.2	25.0	4.5
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>
5229.3
4611.1
3731.6
2886.2
2356.7
2163.5
2097.6
2022.6
1918.1
1784.0
1638.5
1497.6
1386.3
1311.3
1254.5
1259.0
1218.1
1124.9
1034.0
956.8
904.5
868.1
800.0
743.1
663.6
575.0
486.3
434.1
386.3
304.5
222.7
175.0
115.9
75.0
29.5
0.0
0.0

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