

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: P944638

Luminaire Tested: **GALN-SB9C-935-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944638  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9C-935-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

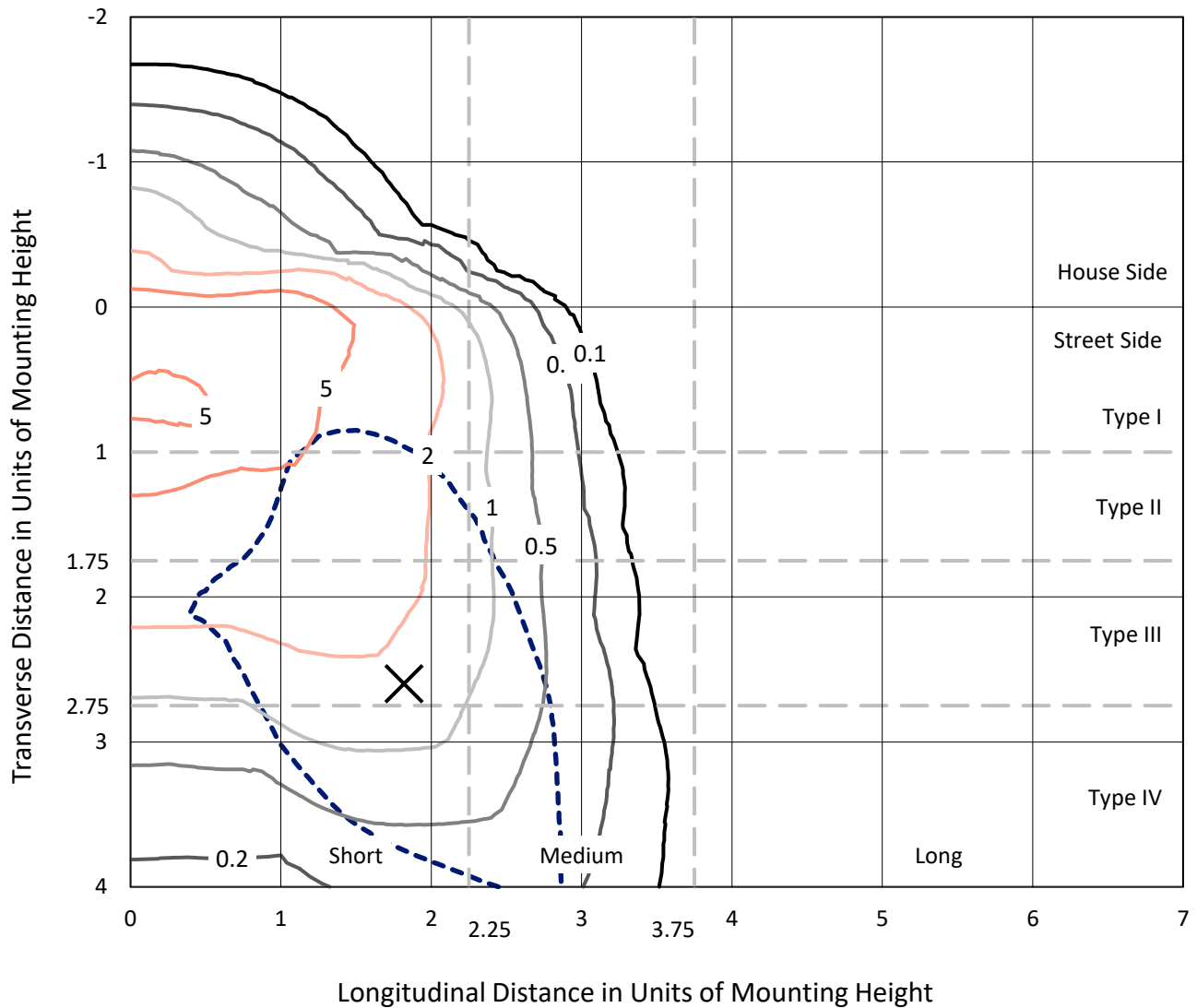
Lumens per Lamp: N/A  
Luminaire Lumens: 35929 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

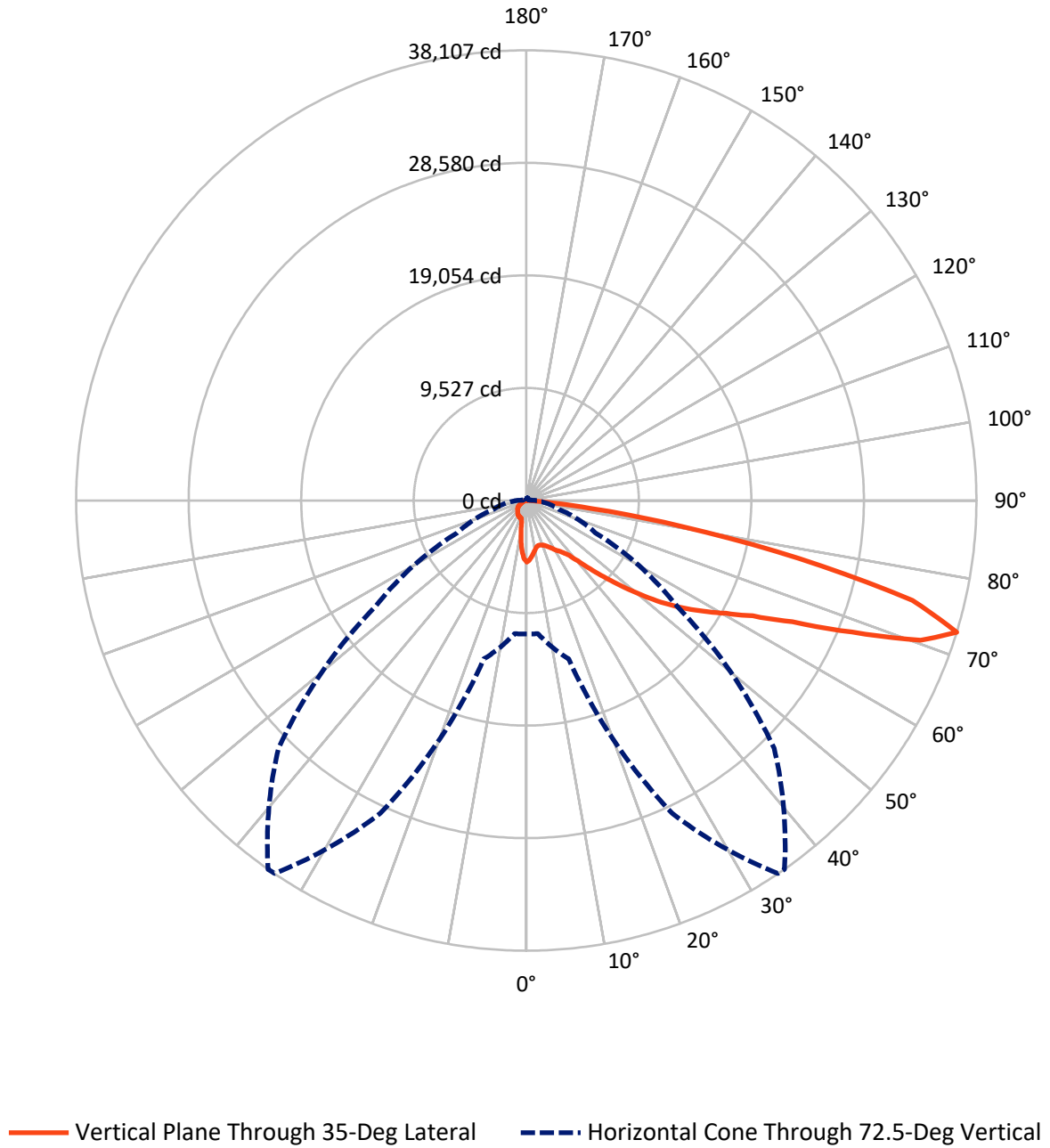
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4043.6	0.0	4043.6
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	31885.4	0.0	31885.4
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	35929.0	0.0	35929.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.9	1.2
10°-20°	1001.0	2.8
20°-30°	1626.1	4.5
30°-40°	2713.2	7.6
40°-50°	5133.5	14.3
50°-60°	8157.0	22.7
60°-70°	10090.8	28.1
70°-80°	6272.5	17.5
80°-90°	506.9	1.4
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°	35929.0	100.0
0°-180°	35929.0	100.0

**Coefficient of Utilization**



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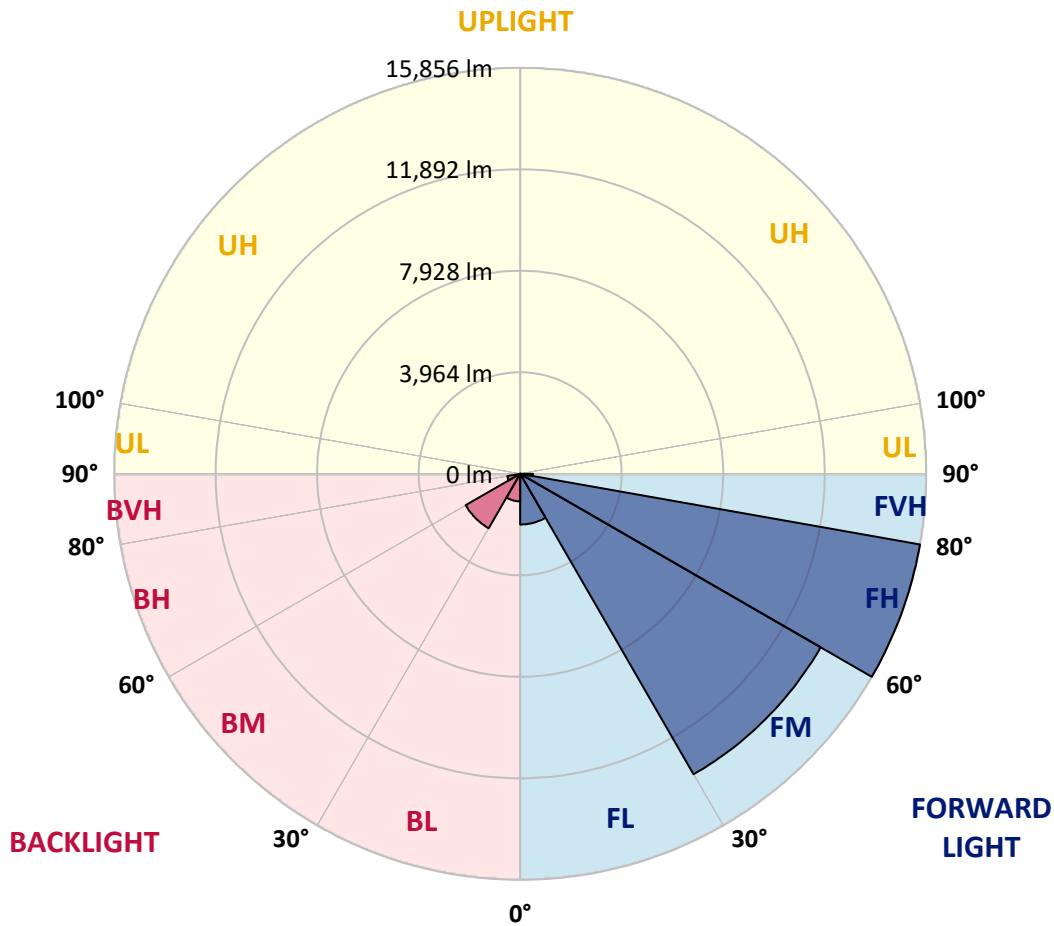
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1980.6	5.5			
FM (30°-60°)	13548.8	37.7			
FH (60°-80°)	15855.9	44.1			G5
FVH (80°-90°)	500.0	1.4			G4/750
BL (0°-30°)	1074.5	3.0	B3/2500		
BM (30°-60°)	2454.9	6.8	B2/2500		
BH (60°-80°)	507.4	1.4	B2/1000		G2/1000
BVH (80°-90°)	6.9	0.0			G0/10
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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3
2.5°	4975.6	5017.8	5025.7	5038.8	5038.8	5054.6	5081.0	5117.8	5178.4	5209.9
5°	4586.0	4617.6	4657.1	4688.7	4749.2	4757.1	4859.8	4959.9	5099.4	5204.7
7.5°	4193.8	4230.6	4283.3	4359.6	4438.6	4462.3	4617.6	4786.1	5007.2	5204.7
10°	3917.3	3920.0	3967.4	4043.7	4170.1	4199.0	4388.6	4628.1	4904.6	5173.1
12.5°	3762.0	3780.4	3801.5	3859.4	3980.5	3998.9	4201.7	4483.3	4801.9	5154.7
15°	3762.0	3775.2	3788.3	3817.3	3914.7	3930.5	4109.5	4391.2	4749.2	5162.6
17.5°	3801.5	3822.6	3812.0	3846.3	3948.9	3959.5	4117.4	4364.9	4746.6	5212.6
20°	3896.3	3912.1	3891.0	3912.1	4014.7	4035.8	4199.0	4414.9	4791.4	5299.5
22.5°	4046.3	4054.2	4004.2	4020.0	4125.3	4151.6	4341.2	4557.1	4899.3	5439.0
25°	4235.9	4251.7	4175.3	4193.8	4293.8	4325.4	4543.9	4770.3	5070.4	5631.2
27.5°	4454.4	4462.3	4396.5	4393.8	4522.8	4567.6	4788.7	5033.6	5299.5	5873.4
30°	4704.5	4728.2	4665.0	4654.5	4817.7	4854.5	5073.1	5357.4	5636.4	6236.7
32.5°	4901.9	4920.4	4883.5	4909.8	5075.7	5104.6	5417.9	5815.5	6165.6	6752.7
35°	5186.3	5196.8	5112.5	5159.9	5349.5	5423.2	5889.2	6457.8	6831.6	7400.3
37.5°	6215.6	6215.6	5857.6	5623.3	5804.9	5870.7	6534.2	7266.0	7653.0	8269.1
40°	7639.9	7616.2	7092.3	6613.1	6589.4	6718.4	7452.9	8284.8	8714.0	9311.6
42.5°	9158.9	9122.0	8408.6	7934.7	7855.7	7900.5	8513.9	9540.6	9977.6	10583.1
45°	10506.8	10496.2	9843.4	9206.3	9064.1	9206.3	9838.1	11009.6	11322.9	11960.0
47.5°	11636.2	11636.2	11159.7	10743.7	10670.0	10754.2	11630.9	12639.2	12610.2	13426.3
50°	12936.7	12926.2	12473.3	12294.3	12370.7	12489.1	13694.9	14355.7	13942.3	14866.4
52.5°	13847.6	13910.7	13755.4	13726.5	14116.1	14321.4	15790.4	16035.3	15134.9	16232.7
55°	14568.9	14642.6	14821.6	15024.3	15774.6	16043.2	17820.2	17628.0	16132.7	17417.4
57.5°	15590.4	15485.1	15761.5	16161.6	17375.3	17699.1	19786.8	19131.2	16935.6	18378.3
60°	16830.3	16846.1	16893.5	17399.0	18973.3	19389.2	21724.4	20552.8	17451.6	18968.0
62.5°	18320.4	18344.1	18441.5	19218.1	21118.9	21511.1	23788.3	21716.5	17688.6	18802.2
65°	18217.7	18317.8	19405.0	22061.3	24380.7	24767.7	26197.2	22532.6	17330.5	17285.8
67.5°	16596.0	16759.2	18578.4	25457.4	29298.4	29730.1	29108.8	22693.2	15785.2	13442.1
70°	14468.9	14526.8	16714.5	28511.2	34992.7	35429.8	31715.1	20926.7	11978.4	7497.7
72.5°	11299.2	11312.4	13879.2	29219.4	38083.4	38107.1	29669.6	15535.1	6442.0	2880.1
75°	8071.6	7992.6	9295.8	23696.2	33505.3	33773.8	22243.0	7287.1	2461.5	1361.1
77.5°	4328.0	4414.9	5260.0	14052.9	23146.0	23604.0	12136.4	2100.8	1253.1	926.7
80°	1337.4	1411.1	2156.1	6434.1	13110.4	13386.9	4499.1	934.6	874.0	660.8
82.5°	421.2	437.0	1005.7	2703.7	5441.6	5568.0	1303.1	529.2	597.6	437.0
85°	121.1	123.7	447.5	1008.3	1345.3	1371.6	365.9	205.3	342.2	271.2
87.5°	13.2	42.1	168.5	168.5	118.5	115.8	39.5	44.8	97.4	34.2
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°
5207.3	0°	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3	5207.3
5231.0	2.5°	5217.8	5220.5	5186.3	5128.3	5065.2	5012.5	4946.7	4894.0	4857.2	4846.6
5278.4	5°	5254.7	5236.3	5138.9	4962.5	4751.9	4570.2	4367.5	4206.9	4101.6	4056.9
5328.4	7.5°	5310.0	5257.3	5044.1	4696.6	4293.8	3935.8	3572.5	3290.8	3111.8	3022.2
5375.8	10°	5357.4	5252.1	4886.1	4312.2	3696.2	3153.9	2664.2	2324.6	2135.1	2045.5
5431.1	12.5°	5402.1	5249.4	4680.8	3856.8	3022.2	2358.8	1903.4	1734.9	1682.2	1663.8
5520.6	15°	5486.4	5257.3	4422.8	3335.5	2350.9	1782.3	1616.4	1613.8	1624.3	1619.1
5657.5	17.5°	5602.2	5265.2	4130.6	2782.7	1813.9	1571.7	1563.8	1587.5	1603.3	1595.4
5828.6	20°	5752.3	5296.8	3819.9	2235.1	1558.5	1519.0	1537.4	1558.5	1571.7	1558.5
6057.7	22.5°	5962.9	5352.1	3480.3	1795.4	1476.9	1487.4	1503.2	1526.9	1540.1	1521.7
6349.9	25°	6220.9	5439.0	3146.0	1561.1	1437.4	1450.6	1474.3	1500.6	1516.4	1498.0
6718.4	27.5°	6555.2	5578.5	2838.0	1508.5	1397.9	1405.8	1440.0	1479.5	1500.6	1476.9
7242.3	30°	7039.6	5807.6	2572.1	1532.2	1374.2	1355.8	1403.2	1458.5	1482.2	1461.1
7955.8	32.5°	7682.0	6131.4	2408.8	1569.0	1363.7	1297.9	1342.6	1413.7	1453.2	1440.0
8887.7	35°	8524.4	6623.7	2345.7	1611.2	1355.8	1237.3	1268.9	1345.3	1413.7	1426.9
10061.9	37.5°	9545.9	7308.1	2364.1	1629.6	1332.1	1187.3	1203.1	1268.9	1358.4	1400.6
11383.4	40°	10706.9	8105.8	2469.4	1611.2	1305.8	1145.2	1147.8	1197.8	1276.8	1340.0
12805.0	42.5°	11904.7	9037.8	2664.2	1542.7	1282.1	1108.3	1100.4	1134.7	1187.3	1232.1
14224.0	45°	13044.6	9996.0	2856.4	1447.9	1253.1	1071.5	1053.0	1066.2	1076.7	1095.2
15606.2	47.5°	14039.7	10670.0	2801.1	1361.1	1213.6	1029.4	997.8	992.5	960.9	958.3
16840.9	50°	14726.9	10817.4	2487.8	1274.2	1155.7	982.0	931.9	900.4	845.1	818.7
17764.9	52.5°	14945.4	10235.6	2032.4	1187.3	1060.9	918.8	847.7	797.7	729.2	705.5
18296.7	55°	14655.8	9095.7	1624.3	1082.0	929.3	834.5	755.6	689.7	634.5	605.5
18354.6	57.5°	13947.6	7645.1	1284.7	958.3	789.8	739.8	660.8	595.0	547.6	518.6
17712.2	60°	12773.5	6070.8	1016.2	810.8	673.9	637.1	555.5	513.4	471.2	437.0
16053.7	62.5°	10991.2	4333.3	797.7	642.4	563.4	521.3	473.9	442.3	392.3	344.9
13070.9	65°	8577.1	2651.0	616.0	471.2	452.8	431.7	402.8	373.8	313.3	265.9
8527.0	67.5°	5410.0	1255.8	439.6	355.4	358.0	347.5	334.3	310.6	265.9	223.8
3819.9	70°	2382.5	608.1	289.6	271.2	265.9	265.9	276.4	268.5	226.4	186.9
1326.8	72.5°	810.8	326.4	215.9	205.3	192.2	189.5	231.7	223.8	181.7	144.8
660.8	75°	423.9	218.5	158.0	147.4	115.8	139.5	184.3	173.8	129.0	94.8
437.0	77.5°	276.4	155.3	107.9	94.8	65.8	92.1	136.9	121.1	76.3	47.4
287.0	80°	173.8	102.7	63.2	44.8	31.6	50.0	73.7	52.7	29.0	10.5
168.5	82.5°	92.1	52.7	23.7	15.8	13.2	15.8	18.4	13.2	5.3	0.0
86.9	85°	36.9	18.4	7.9	5.3	2.6	0.0	5.3	2.6	0.0	0.0
15.8	87.5°	13.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
5207.3
4865.1
4072.7
3035.4
2048.2
1658.5
1616.4
1592.7
1555.9
1519.0
1495.3
1476.9
1458.5
1440.0
1426.9
1411.1
1361.1
1250.5
1105.7
955.6
821.4
702.9
605.5
513.4
429.1
337.0
258.0
218.5
179.0
136.9
86.9
42.1
7.9
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