

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: P943978

Luminaire Tested: **GALN-SB8C-950-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943978
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-SB8C-950-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 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: 31897 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

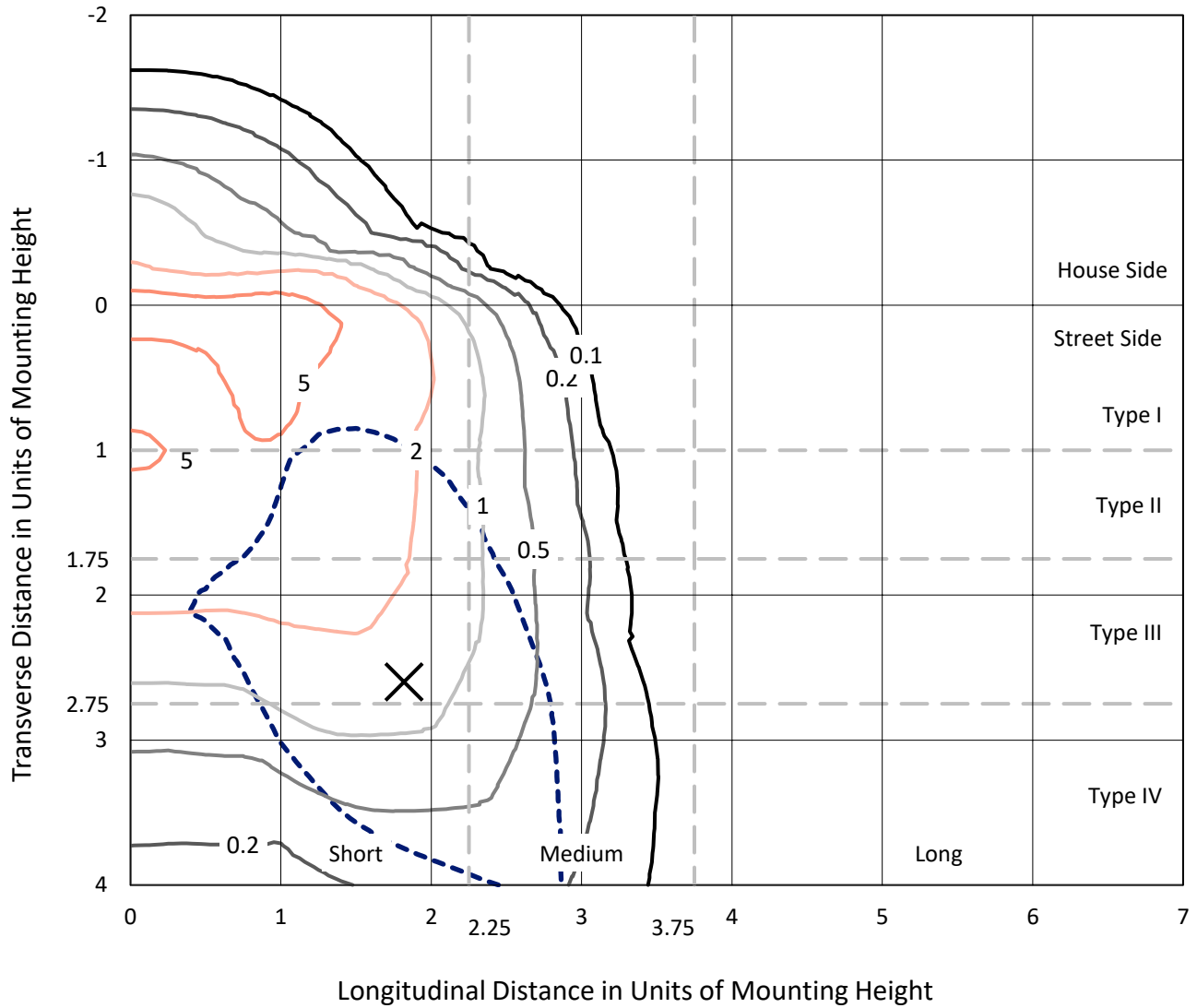
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

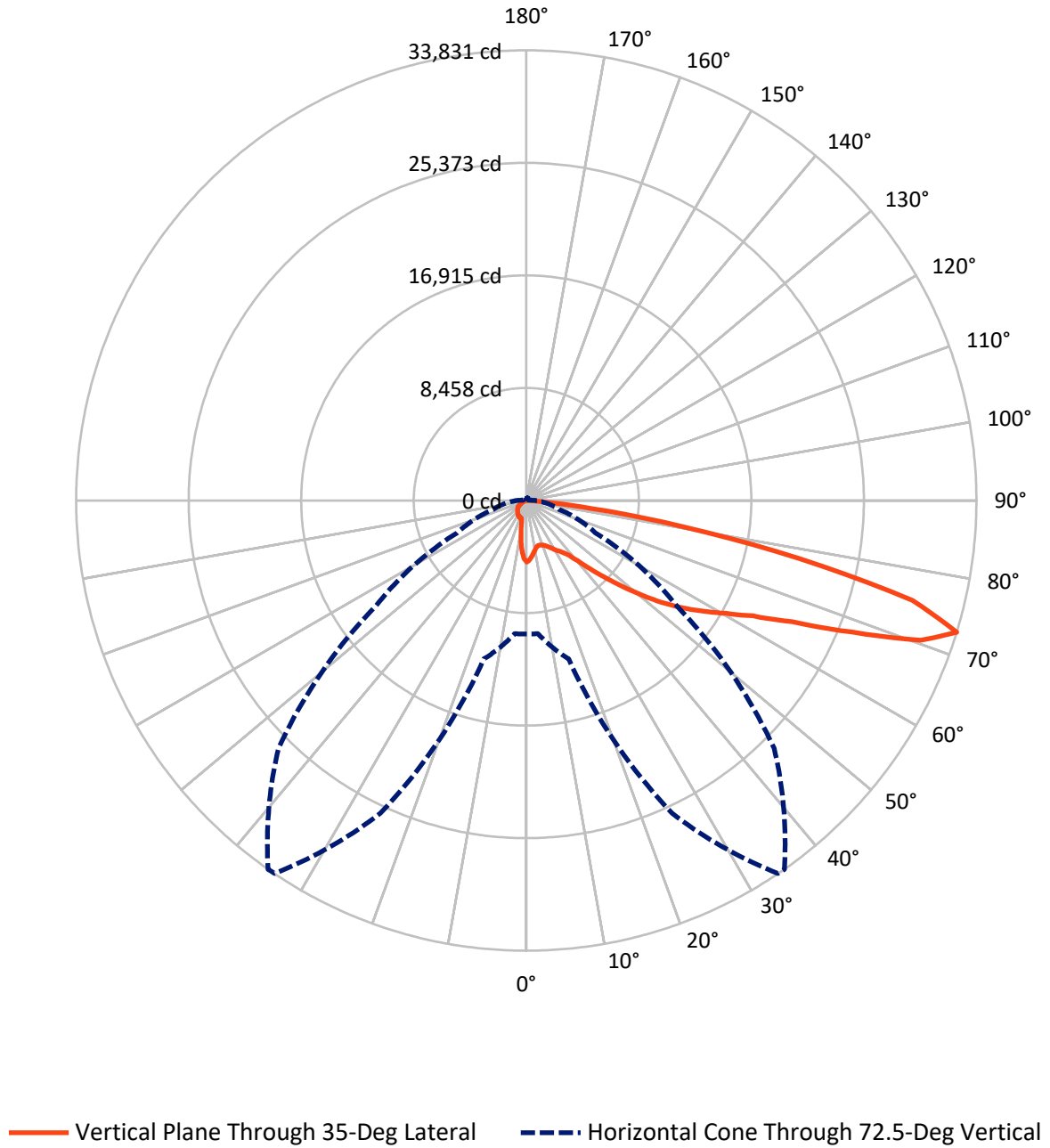
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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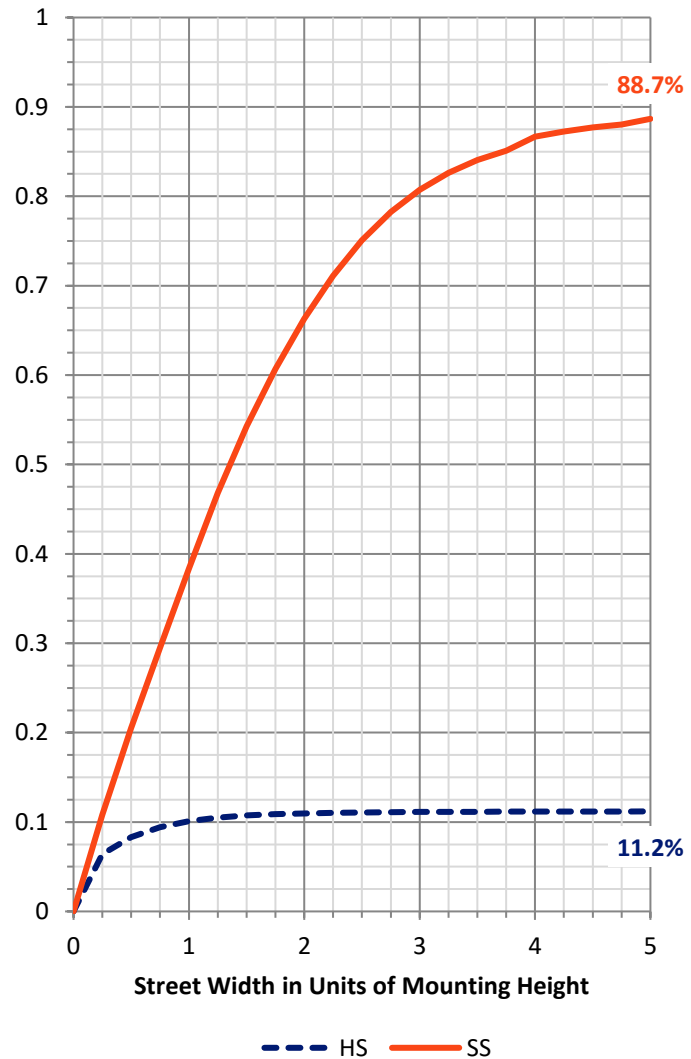
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3589.9	0.0	3589.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	28307.1	0.0	28307.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	31897.0	0.0	31897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.9	1.2
10°-20°	888.7	2.8
20°-30°	1443.7	4.5
30°-40°	2408.7	7.6
40°-50°	4557.4	14.3
50°-60°	7241.6	22.7
60°-70°	8958.4	28.1
70°-80°	5568.6	17.5
80°-90°	450.0	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°	31897.0	100.0
0°-180°	31897.0	100.0

Coefficient of Utilization



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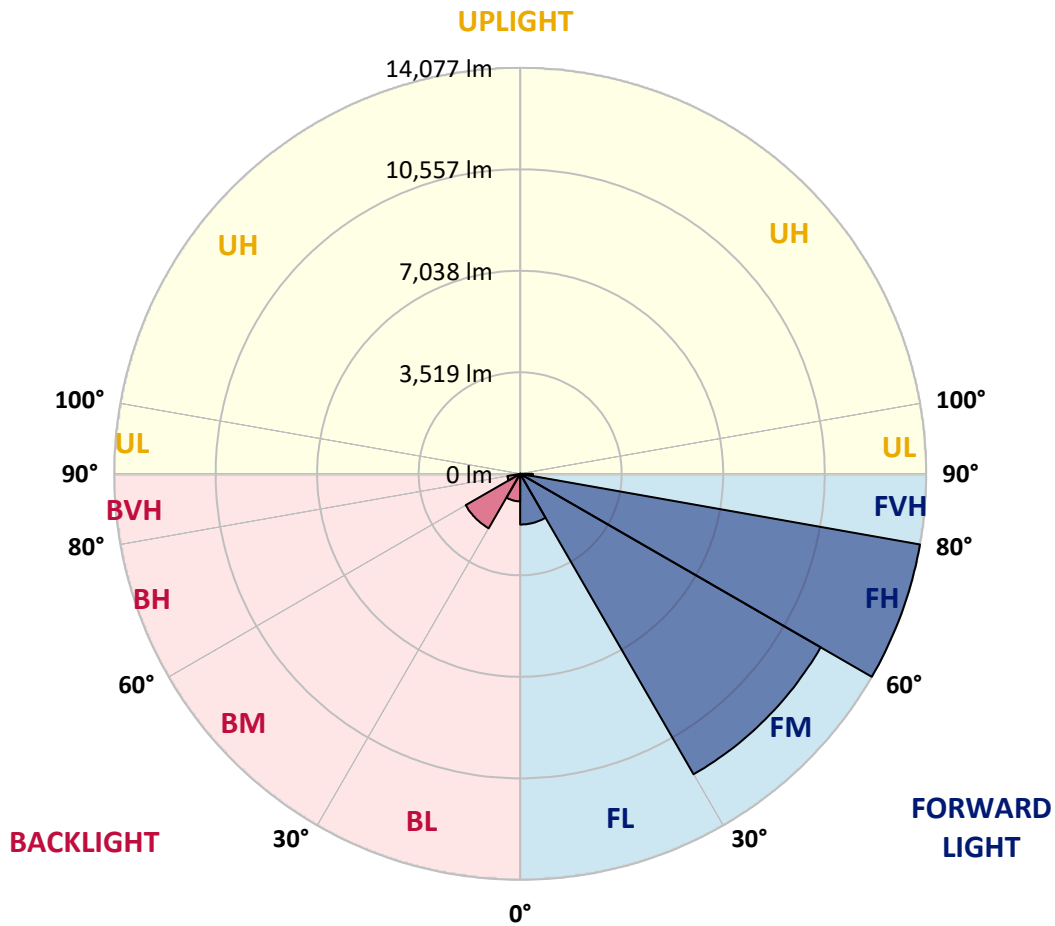
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1758.3	5.5			
FM (30°-60°)	12028.4	37.7			
FH (60°-80°)	14076.5	44.1			G5
FVH (80°-90°)	443.9	1.4			G3/500
BL (0°-30°)	953.9	3.0	B2/1000		
BM (30°-60°)	2179.4	6.8	B2/2500		
BH (60°-80°)	450.5	1.4	B1/500		G1/500
BVH (80°-90°)	6.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9
2.5°	4417.3	4454.7	4461.7	4473.4	4473.4	4487.4	4510.8	4543.5	4597.2	4625.3
5°	4071.4	4099.4	4134.5	4162.5	4216.3	4223.3	4314.4	4403.2	4527.1	4620.6
7.5°	3723.1	3755.9	3802.6	3870.4	3940.5	3961.5	4099.4	4249.0	4445.3	4620.6
10°	3477.7	3480.1	3522.1	3589.9	3702.1	3727.8	3896.1	4108.8	4354.2	4592.6
12.5°	3339.8	3356.2	3374.9	3426.3	3533.8	3550.2	3730.1	3980.2	4263.0	4576.2
15°	3339.8	3351.5	3363.2	3388.9	3475.4	3489.4	3648.3	3898.4	4216.3	4583.2
17.5°	3374.9	3393.6	3384.2	3414.6	3505.8	3515.1	3655.4	3875.0	4213.9	4627.6
20°	3459.0	3473.1	3454.4	3473.1	3564.2	3582.9	3727.8	3919.5	4253.7	4704.7
22.5°	3592.2	3599.3	3554.9	3568.9	3662.4	3685.7	3854.0	4045.7	4349.5	4828.6
25°	3760.5	3774.5	3706.8	3723.1	3811.9	3840.0	4034.0	4235.0	4501.4	4999.2
27.5°	3954.5	3961.5	3903.1	3900.8	4015.3	4055.0	4251.3	4468.7	4704.7	5214.3
30°	4176.5	4197.6	4141.5	4132.1	4277.0	4309.8	4503.7	4756.2	5003.9	5536.8
32.5°	4351.8	4368.2	4335.5	4358.8	4506.1	4531.8	4809.9	5162.8	5473.7	5994.9
35°	4604.2	4613.6	4538.8	4580.9	4749.2	4814.6	5228.3	5733.1	6065.0	6569.8
37.5°	5518.1	5518.1	5200.2	4992.2	5153.5	5211.9	5800.9	6450.6	6794.2	7341.1
40°	6782.5	6761.5	6296.4	5871.0	5850.0	5964.5	6616.6	7355.1	7736.1	8266.6
42.5°	8131.1	8098.3	7465.0	7044.3	6974.1	7013.9	7558.4	8469.9	8857.9	9395.5
45°	9327.7	9318.3	8738.7	8173.1	8046.9	8173.1	8734.0	9774.1	10052.2	10617.8
47.5°	10330.3	10330.3	9907.3	9538.0	9472.6	9547.4	10325.7	11220.8	11195.1	11919.6
50°	11484.9	11475.6	11073.6	10914.6	10982.4	11087.6	12158.0	12744.6	12377.7	13198.1
52.5°	12293.6	12349.7	12211.8	12186.1	12532.0	12714.3	14018.4	14235.8	13436.5	14411.1
55°	12934.0	12999.4	13158.3	13338.3	14004.4	14242.8	15820.4	15649.8	14322.2	15462.8
57.5°	13840.8	13747.3	13992.7	14348.0	15425.4	15712.9	17566.3	16984.3	15035.1	16315.9
60°	14941.6	14955.6	14997.7	15446.4	16844.1	17213.3	19286.4	18246.4	15493.2	16839.4
62.5°	16264.4	16285.5	16372.0	17061.4	18748.9	19097.1	21118.8	19279.4	15703.5	16692.1
65°	16173.3	16262.1	17227.4	19585.6	21644.6	21988.2	23257.3	20003.9	15385.7	15345.9
67.5°	14733.6	14878.5	16493.5	22600.5	26010.5	26393.8	25842.2	20146.5	14013.7	11933.6
70°	12845.1	12896.6	14838.8	25311.7	31065.8	31453.8	28156.0	18578.3	10634.2	6656.3
72.5°	10031.2	10042.9	12321.6	25940.4	33809.7	33830.7	26340.0	13791.7	5719.1	2556.9
75°	7165.8	7095.7	8252.6	21037.0	29745.3	29983.7	19746.8	6469.3	2185.3	1208.3
77.5°	3842.3	3919.5	4669.7	12475.9	20548.5	20955.2	10774.4	1865.1	1112.5	822.7
80°	1187.3	1252.7	1914.2	5712.1	11639.2	11884.6	3994.2	829.7	775.9	586.6
82.5°	373.9	388.0	892.8	2400.3	4831.0	4943.1	1156.9	469.8	530.5	388.0
85°	107.5	109.8	397.3	895.1	1194.3	1217.7	324.9	182.3	303.8	240.7
87.5°	11.7	37.4	149.6	149.6	105.2	102.8	35.1	39.7	86.5	30.4
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°
4622.9	0°	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9	4622.9
4644.0	2.5°	4632.3	4634.6	4604.2	4552.8	4496.7	4450.0	4391.6	4344.8	4312.1	4302.8
4686.0	5°	4665.0	4648.7	4562.2	4405.6	4218.6	4057.3	3877.4	3734.8	3641.3	3601.6
4730.5	7.5°	4714.1	4667.4	4478.0	4169.5	3811.9	3494.1	3171.6	2921.5	2762.5	2683.1
4772.5	10°	4756.2	4662.7	4337.8	3828.3	3281.4	2799.9	2365.2	2063.7	1895.5	1816.0
4821.6	12.5°	4795.9	4660.3	4155.5	3424.0	2683.1	2094.1	1689.8	1540.2	1493.5	1477.1
4901.1	15°	4870.7	4667.4	3926.5	2961.2	2087.1	1582.3	1435.0	1432.7	1442.0	1437.4
5022.6	17.5°	4973.5	4674.4	3667.0	2470.4	1610.3	1395.3	1388.3	1409.3	1423.3	1416.3
5174.5	20°	5106.7	4702.4	3391.3	1984.3	1383.6	1348.6	1364.9	1383.6	1395.3	1383.6
5377.9	22.5°	5293.7	4751.5	3089.8	1594.0	1311.2	1320.5	1334.5	1355.6	1367.3	1350.9
5637.3	25°	5522.8	4828.6	2792.9	1385.9	1276.1	1287.8	1308.8	1332.2	1346.2	1329.9
5964.5	27.5°	5819.6	4952.5	2519.5	1339.2	1241.0	1248.1	1278.4	1313.5	1332.2	1311.2
6429.6	30°	6249.6	5155.8	2283.4	1360.2	1220.0	1203.6	1245.7	1294.8	1315.8	1297.1
7063.0	32.5°	6819.9	5443.3	2138.5	1393.0	1210.7	1152.2	1192.0	1255.1	1290.1	1278.4
7890.3	35°	7567.8	5880.3	2082.4	1430.4	1203.6	1098.5	1126.5	1194.3	1255.1	1266.8
8932.7	37.5°	8474.6	6488.0	2098.8	1446.7	1182.6	1054.1	1068.1	1126.5	1206.0	1243.4
10106.0	40°	9505.3	7196.2	2192.3	1430.4	1159.2	1016.7	1019.0	1063.4	1133.5	1189.6
11368.1	42.5°	10568.7	8023.5	2365.2	1369.6	1138.2	984.0	976.9	1007.3	1054.1	1093.8
12627.8	45°	11580.7	8874.3	2535.8	1285.4	1112.5	951.2	934.9	946.6	955.9	972.3
13854.8	47.5°	12464.2	9472.6	2486.8	1208.3	1077.4	913.8	885.8	881.1	853.1	850.7
14950.9	50°	13074.2	9603.5	2208.6	1131.2	1026.0	871.8	827.4	799.3	750.2	726.9
15771.3	52.5°	13268.2	9087.0	1804.3	1054.1	941.9	815.7	752.6	708.2	647.4	626.4
16243.4	55°	13011.1	8075.0	1442.0	960.6	825.0	740.9	670.8	612.3	563.3	537.6
16294.8	57.5°	12382.4	6787.2	1140.5	850.7	701.2	656.7	586.6	528.2	486.1	460.4
15724.6	60°	11340.0	5389.5	902.2	719.9	598.3	565.6	493.1	455.8	418.4	388.0
14252.1	62.5°	9757.7	3847.0	708.2	570.3	500.2	462.8	420.7	392.6	348.2	306.2
11604.1	65°	7614.5	2353.5	546.9	418.4	402.0	383.3	357.6	331.9	278.1	236.1
7570.1	67.5°	4802.9	1114.8	390.3	315.5	317.9	308.5	296.8	275.8	236.1	198.7
3391.3	70°	2115.1	539.9	257.1	240.7	236.1	236.1	245.4	238.4	201.0	165.9
1177.9	72.5°	719.9	289.8	191.6	182.3	170.6	168.3	205.7	198.7	161.3	128.5
586.6	75°	376.3	194.0	140.2	130.9	102.8	123.9	163.6	154.3	114.5	84.1
388.0	77.5°	245.4	137.9	95.8	84.1	58.4	81.8	121.5	107.5	67.8	42.1
254.8	80°	154.3	91.2	56.1	39.7	28.0	44.4	65.4	46.7	25.7	9.3
149.6	82.5°	81.8	46.7	21.0	14.0	11.7	14.0	16.4	11.7	4.7	0.0
77.1	85°	32.7	16.4	7.0	4.7	2.3	0.0	4.7	2.3	0.0	0.0
14.0	87.5°	11.7	2.3	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>
4622.9
4319.1
3615.6
2694.8
1818.3
1472.4
1435.0
1414.0
1381.3
1348.6
1327.5
1311.2
1294.8
1278.4
1266.8
1252.7
1208.3
1110.2
981.6
848.4
729.2
624.0
537.6
455.8
381.0
299.2
229.0
194.0
158.9
<i>121.5</i>
77.1
37.4
7.0
0.0
0.0
0.0
0.0

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