

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: P942834

Luminaire Tested: **GALN-SB7A-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942834
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-SB7A-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 24646 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

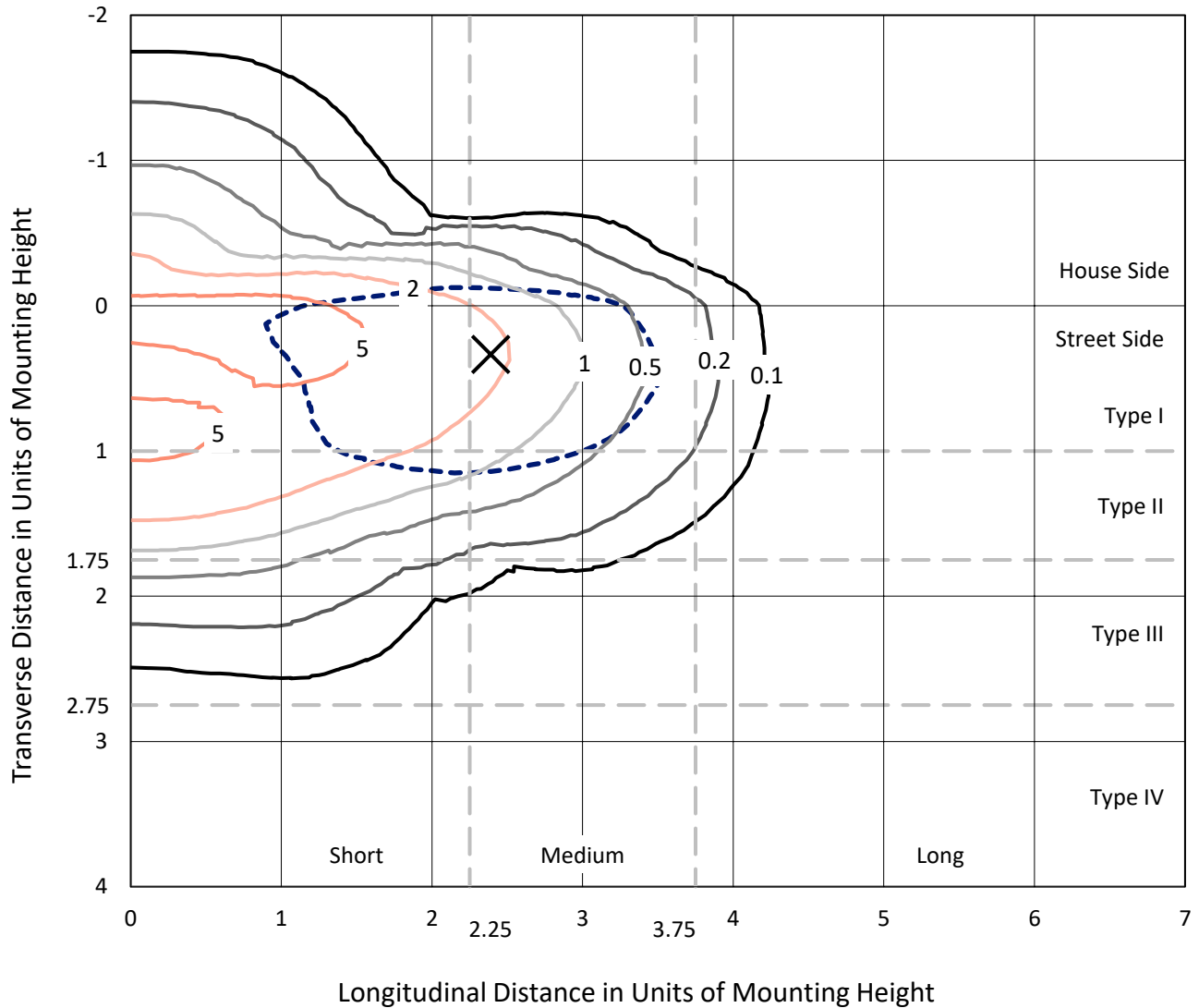
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

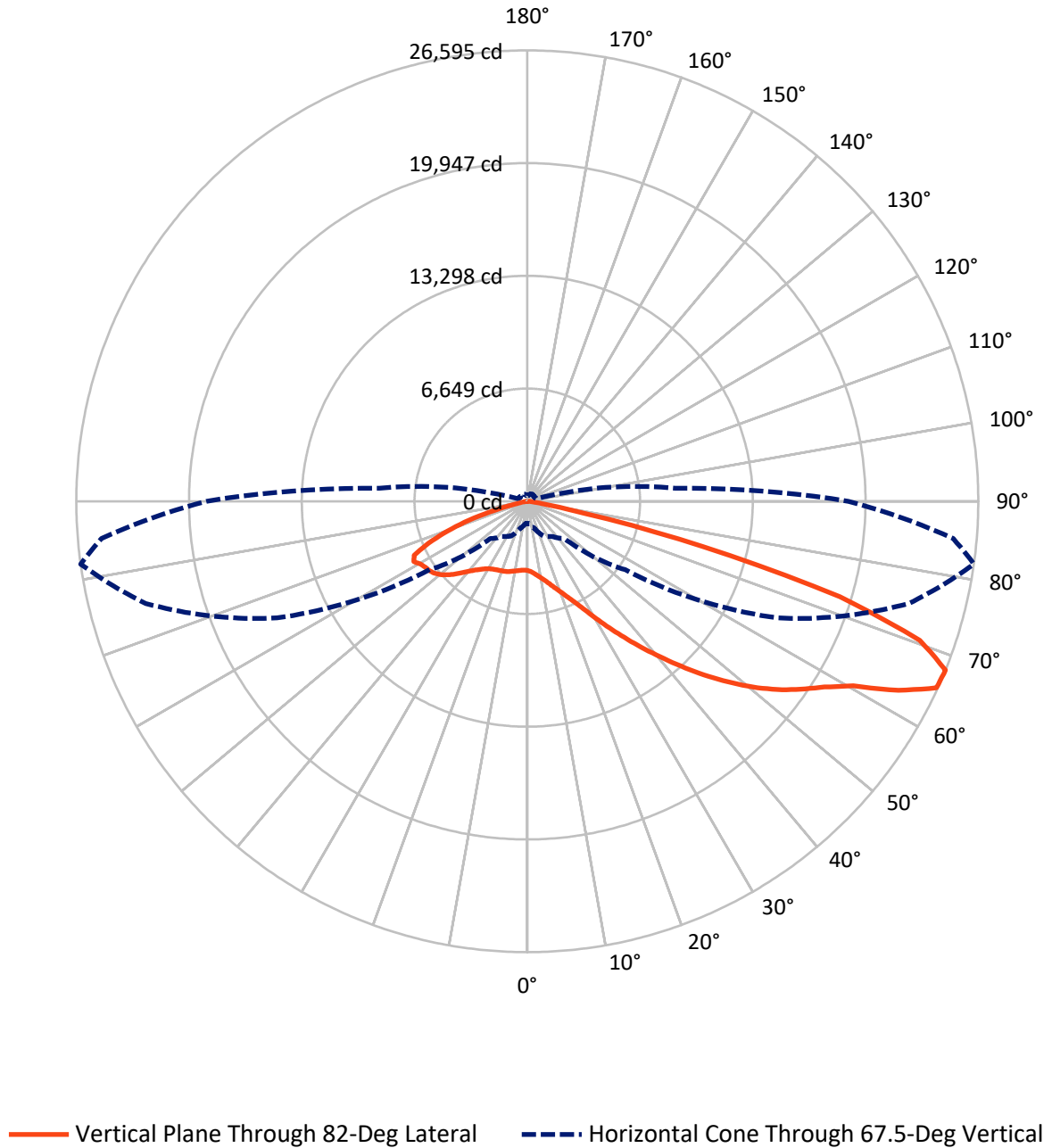
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	4464.4	0.0	4464.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	20181.6	0.0	20181.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	24646.0	0.0	24646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.8	1.5
10°-20°	945.3	3.8
20°-30°	1514.0	6.1
30°-40°	2677.3	10.9
40°-50°	4690.9	19.0
50°-60°	6256.3	25.4
60°-70°	5824.3	23.6
70°-80°	2235.4	9.1
80°-90°	138.8	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°	24646.0	100.0
0°-180°	24646.0	100.0

Coefficient of Utilization



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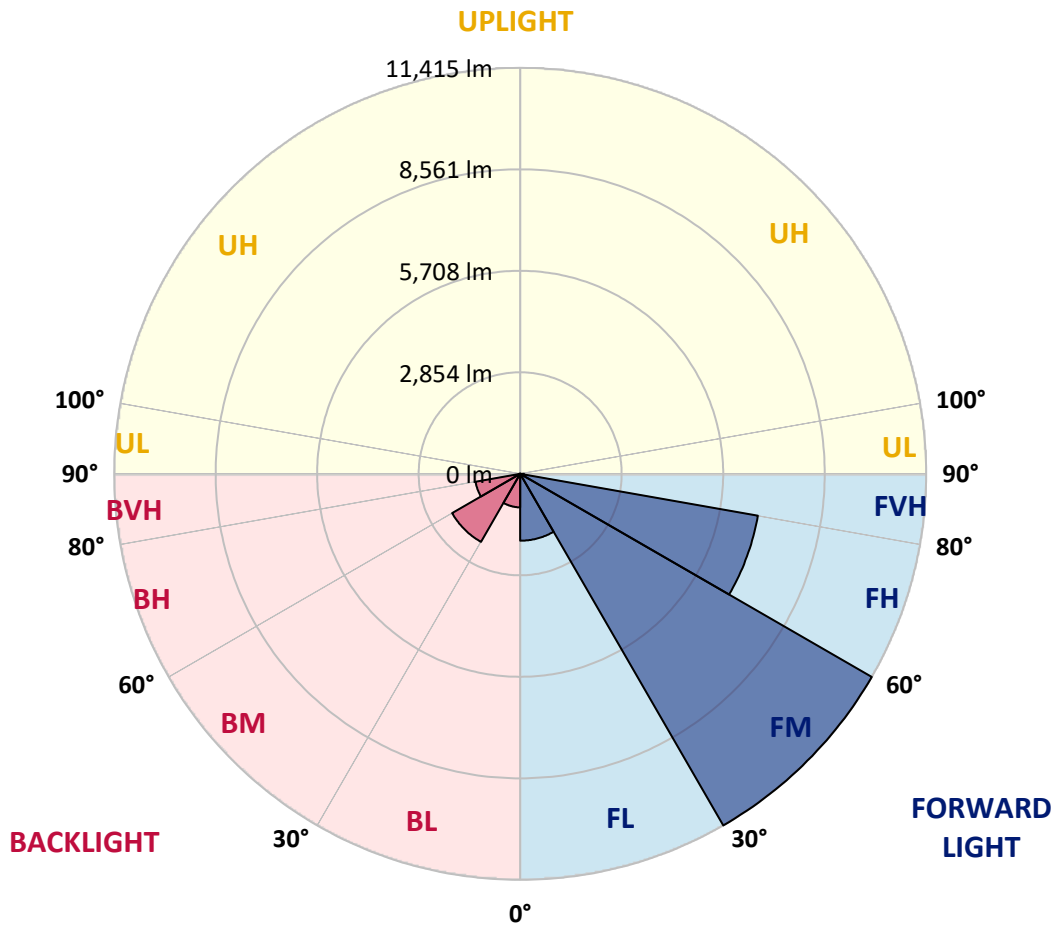
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1880.2	7.6			
FM (30°-60°)	11415.0	46.3			
FH (60°-80°)	6785.4	27.5			G3/7500
FVH (80°-90°)	100.9	0.4			G2/225
BL (0°-30°)	942.9	3.8	B2/1000		
BM (30°-60°)	2209.4	9.0	B2/2500		
BH (60°-80°)	1274.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	37.9	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4083.0	4083.0	4083.0	4083.0	4083.0	4083.0	4083.0	4083.0	4083.0	4083.0
2.5°	4315.5	4340.3	4326.1	4319.0	4306.6	4288.8	4274.6	4230.3	4184.2	4154.0
5°	4402.4	4427.3	4425.5	4432.6	4441.4	4446.8	4443.2	4393.5	4327.9	4276.4
7.5°	4327.9	4356.3	4379.3	4414.8	4476.9	4542.6	4574.5	4563.9	4496.5	4425.5
10°	4116.7	4146.9	4201.9	4285.3	4416.6	4558.6	4677.4	4732.5	4689.9	4611.8
12.5°	3729.9	3760.1	3868.3	4049.3	4269.3	4516.0	4743.1	4890.4	4901.0	4823.0
15°	3295.2	3325.3	3440.7	3667.8	4003.2	4398.9	4778.6	5057.2	5151.2	5083.8
17.5°	3025.4	3052.1	3139.0	3321.8	3671.3	4164.6	4766.2	5234.6	5449.3	5396.1
20°	2943.8	2966.9	3007.7	3135.5	3426.5	3921.5	4684.5	5401.4	5770.5	5740.3
22.5°	3030.8	3052.1	3064.5	3121.3	3304.0	3761.8	4581.6	5571.8	6143.1	6146.7
25°	3231.3	3252.6	3238.4	3273.9	3353.7	3712.1	4542.6	5772.3	6611.6	6650.6
27.5°	3561.3	3563.1	3529.4	3527.6	3540.0	3786.7	4583.4	5987.0	7202.5	7275.2
30°	4223.2	4196.6	4067.0	3926.9	3863.0	4010.3	4697.0	6240.7	7899.8	8029.4
32.5°	5243.5	5204.5	4966.7	4631.3	4294.2	4370.5	4901.0	6530.0	8659.3	8893.5
35°	6350.8	6340.1	6091.7	5593.1	5003.9	4883.3	5232.9	6909.7	9488.0	9860.6
37.5°	7379.9	7374.6	7232.7	6645.3	5928.4	5598.4	5765.2	7406.6	10375.2	10914.6
40°	8320.4	8336.4	8194.4	7669.2	6947.0	6515.8	6489.2	8020.5	11361.8	12062.7
42.5°	9133.1	9150.8	9007.1	8618.5	7953.1	7530.8	7378.2	8772.9	12325.3	13295.9
45°	9684.9	9795.0	9773.7	9463.1	8985.8	8547.5	8446.4	9716.9	13423.7	14603.7
47.5°	9841.1	9942.2	10101.9	10144.5	9853.5	9422.3	9543.0	10854.3	14534.5	15913.3
50°	9456.0	9550.1	9881.9	10323.7	10526.0	10393.0	10609.4	12073.4	15671.9	17219.3
52.5°	8696.6	8792.4	9211.2	9910.3	10735.4	11154.2	11679.4	13274.7	16773.9	18456.0
55°	7598.2	7699.3	8237.0	9028.4	10336.2	11468.3	12572.0	14474.2	17783.5	19568.6
57.5°	6104.1	6178.6	6737.6	7844.8	9331.8	11156.0	13230.3	15783.7	18734.6	20661.7
60°	3978.3	4044.0	4693.4	5928.4	7667.4	10112.6	13361.6	17244.1	19998.0	22083.0
62.5°	2645.7	2690.1	3075.1	3981.9	5399.6	8109.2	12593.3	18409.9	21850.6	24556.6
65°	1815.3	1859.6	2244.7	2876.4	3488.6	5364.2	10384.1	18255.5	23529.2	26520.9
67.5°	1295.3	1332.6	1659.1	2255.3	2525.0	3115.9	7039.2	16282.3	23287.9	26595.4
70°	928.0	949.3	1219.0	1756.7	2006.9	1872.0	3914.4	12453.1	20390.2	24558.4
72.5°	649.4	656.5	846.4	1337.9	1616.5	1366.3	1863.2	8302.6	15421.7	19275.8
75°	440.1	448.9	569.6	981.3	1297.1	1043.4	986.6	4452.1	9053.2	10669.8
77.5°	269.7	273.3	367.3	670.7	970.6	795.0	635.3	1886.2	3502.8	3438.9
80°	152.6	152.6	234.2	417.0	661.9	512.8	445.4	802.1	1109.0	974.2
82.5°	85.2	86.9	170.3	259.1	438.3	303.4	244.9	370.9	479.1	424.1
85°	35.5	39.0	104.7	122.4	209.4	150.8	99.4	156.2	177.4	157.9
87.5°	3.5	5.3	31.9	23.1	24.8	30.2	14.2	30.2	24.8	24.8
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°
4083.0	0°	4083.0	4083.0	4083.0	4083.0	4083.0	4083.0	4083.0	4083.0	4083.0	4083.0
4143.3	2.5°	4109.6	4083.0	4015.6	3937.5	3834.6	3784.9	3717.5	3671.3	3632.3	3635.8
4246.3	5°	4189.5	4122.0	3971.2	3783.1	3548.9	3382.1	3204.7	3082.2	2982.8	2961.6
4388.2	7.5°	4299.5	4193.0	3928.6	3589.7	3194.0	2894.1	2626.2	2454.1	2331.6	2292.6
4560.3	10°	4441.4	4287.1	3873.6	3346.6	2777.0	2395.5	2108.0	1973.2	1889.8	1861.4
4762.6	12.5°	4606.5	4395.3	3800.9	3050.3	2347.6	1980.3	1797.5	1730.1	1703.5	1694.6
5011.0	15°	4814.1	4530.2	3690.9	2698.9	1983.8	1726.5	1648.5	1639.6	1643.1	1639.6
5309.2	17.5°	5060.7	4677.4	3511.6	2336.9	1739.0	1597.0	1568.6	1575.7	1584.6	1582.8
5642.7	20°	5330.4	4823.0	3282.7	2015.8	1572.2	1504.7	1488.8	1495.9	1503.0	1499.4
6027.8	22.5°	5637.4	4979.1	3029.0	1765.6	1460.4	1419.6	1401.8	1403.6	1403.6	1396.5
6515.8	25°	6004.7	5151.2	2762.8	1588.1	1375.2	1343.3	1322.0	1314.9	1304.2	1282.9
7108.4	27.5°	6443.0	5334.0	2507.3	1463.9	1307.8	1277.6	1252.8	1235.0	1208.4	1172.9
7820.0	30°	6936.3	5555.8	2290.8	1385.8	1254.5	1224.4	1196.0	1169.4	1130.3	1086.0
8638.0	32.5°	7516.6	5793.6	2132.9	1334.4	1206.6	1174.7	1141.0	1109.0	1066.4	1022.1
9557.2	35°	8208.6	6081.0	2040.6	1298.9	1169.4	1126.8	1089.5	1054.0	1022.1	983.0
10556.2	37.5°	8959.2	6386.2	2012.2	1281.2	1144.5	1078.9	1036.3	1011.4	1007.9	984.8
11636.8	40°	9780.8	6748.2	2033.5	1270.5	1117.9	1032.7	986.6	981.3	990.1	949.3
12792.0	42.5°	10650.2	7177.6	2069.0	1258.1	1080.6	986.6	942.2	942.2	935.1	878.4
14012.8	45°	11590.7	7672.7	2104.5	1227.9	1036.3	940.5	906.7	894.3	864.2	809.1
15240.7	47.5°	12538.3	8176.7	2131.1	1172.9	983.0	901.4	871.3	842.9	798.5	748.8
16445.6	50°	13437.9	8629.1	2102.7	1091.3	922.7	864.2	832.2	793.2	745.3	711.6
17586.6	52.5°	14241.7	9021.3	1982.1	995.5	858.8	825.1	796.7	755.9	716.9	681.4
18615.7	55°	14940.9	9338.9	1769.1	905.0	802.1	791.4	763.0	711.6	658.3	628.2
19636.1	57.5°	15611.6	9580.3	1503.0	830.4	750.6	754.1	711.6	665.4	615.7	583.8
21011.3	60°	16504.2	9903.2	1233.2	761.2	695.6	706.2	660.1	626.4	564.3	523.5
23369.5	62.5°	17930.8	10405.4	979.5	676.1	631.7	635.3	615.7	574.9	500.4	452.5
25117.3	65°	19062.9	10220.8	771.9	583.8	559.0	564.3	564.3	519.9	440.1	385.1
25211.4	67.5°	18935.1	8751.6	615.7	493.3	489.7	493.3	505.7	468.5	390.4	346.0
23291.4	70°	17442.8	6961.2	493.3	409.9	425.9	417.0	452.5	427.6	351.3	307.0
18056.8	72.5°	14232.9	5014.6	376.2	338.9	326.5	340.7	408.1	385.1	292.8	243.1
9564.3	75°	8316.8	2675.9	280.4	267.9	236.0	283.9	362.0	328.3	223.6	179.2
2931.4	77.5°	2707.8	933.4	205.8	197.0	175.7	228.9	308.8	276.8	182.8	142.0
858.8	80°	725.7	282.1	140.2	129.5	113.6	170.3	244.9	220.0	131.3	92.3
369.1	82.5°	291.0	118.9	81.6	72.8	62.1	117.1	193.4	177.4	97.6	58.6
115.3	85°	94.0	39.0	30.2	23.1	28.4	72.8	115.3	120.7	69.2	30.2
17.7	87.5°	12.4	5.3	5.3	7.1	5.3	12.4	35.5	33.7	19.5	3.5
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>
4083.0
3600.4
2913.6
2253.6
1840.1
1689.3
1637.8
1579.3
1497.6
1392.9
1279.4
1169.4
1082.4
1023.9
979.5
983.0
951.1
878.4
807.4
747.0
706.2
677.8
624.6
580.2
518.1
448.9
379.7
338.9
301.7
237.8
173.9
136.6
90.5
58.6
23.1
0.0
0.0

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