

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: P944234

Luminaire Tested: **GALN-SB9A-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944234
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-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 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: 26809 lumens
Efficiency: N/A
Efficacy: 104.9 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

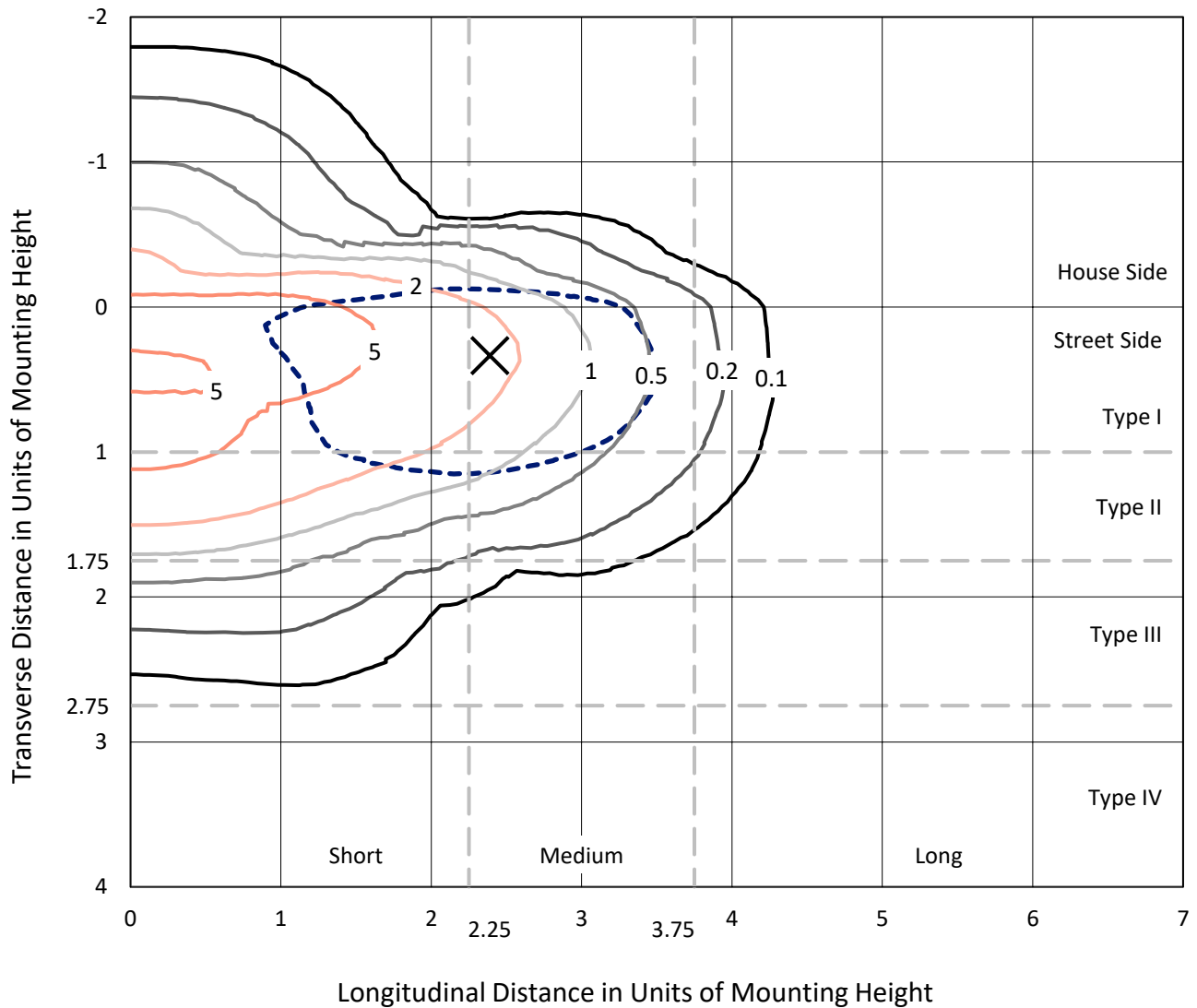
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

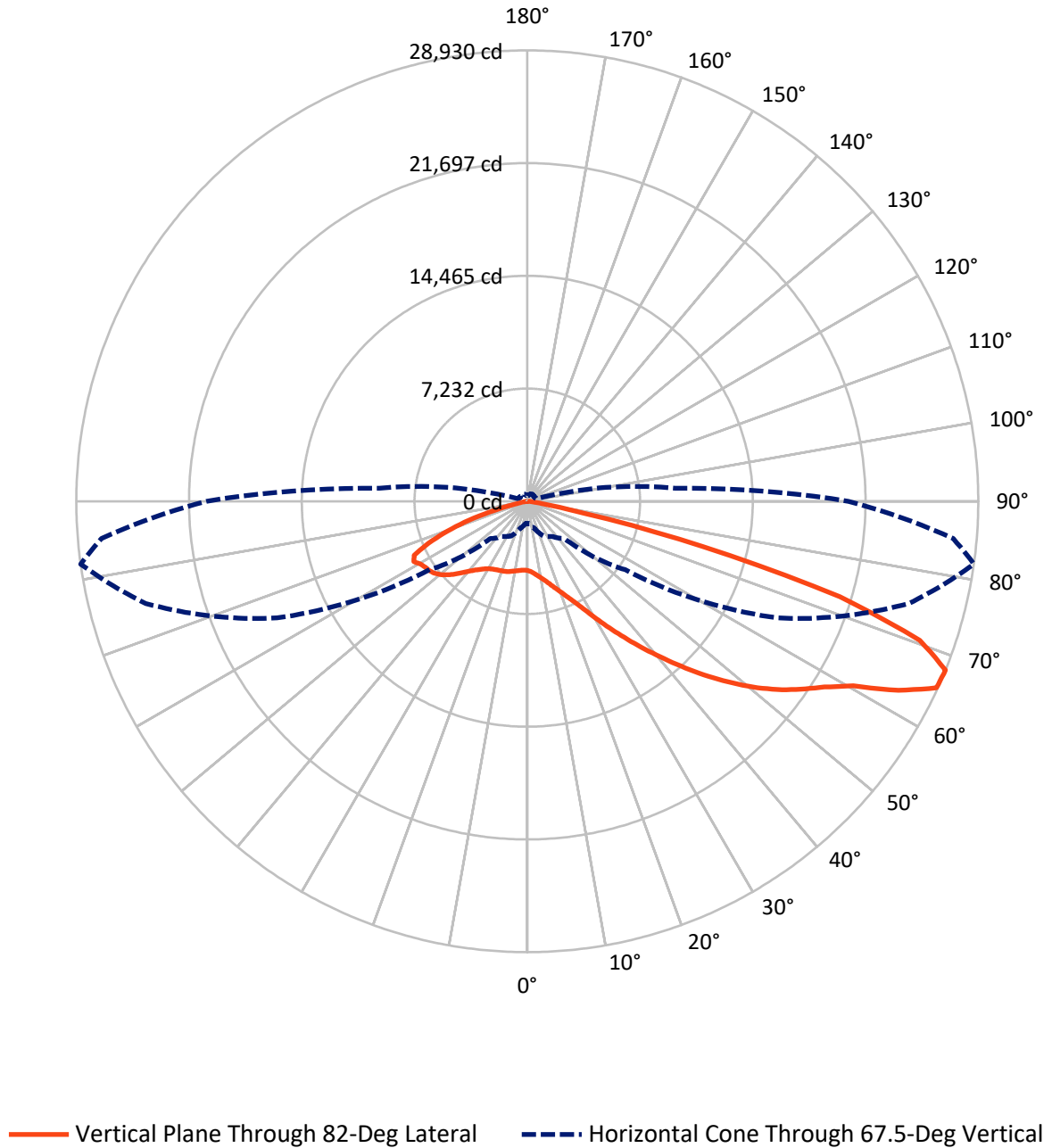
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	4856.2	0.0	4856.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21952.8	0.0	21952.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	26809.0	0.0	26809.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.7	1.5
10°-20°	1028.2	3.8
20°-30°	1646.9	6.1
30°-40°	2912.2	10.9
40°-50°	5102.5	19.0
50°-60°	6805.4	25.4
60°-70°	6335.4	23.6
70°-80°	2431.5	9.1
80°-90°	151.0	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°	26809.0	100.0
0°-180°	26809.0	100.0

Coefficient of Utilization



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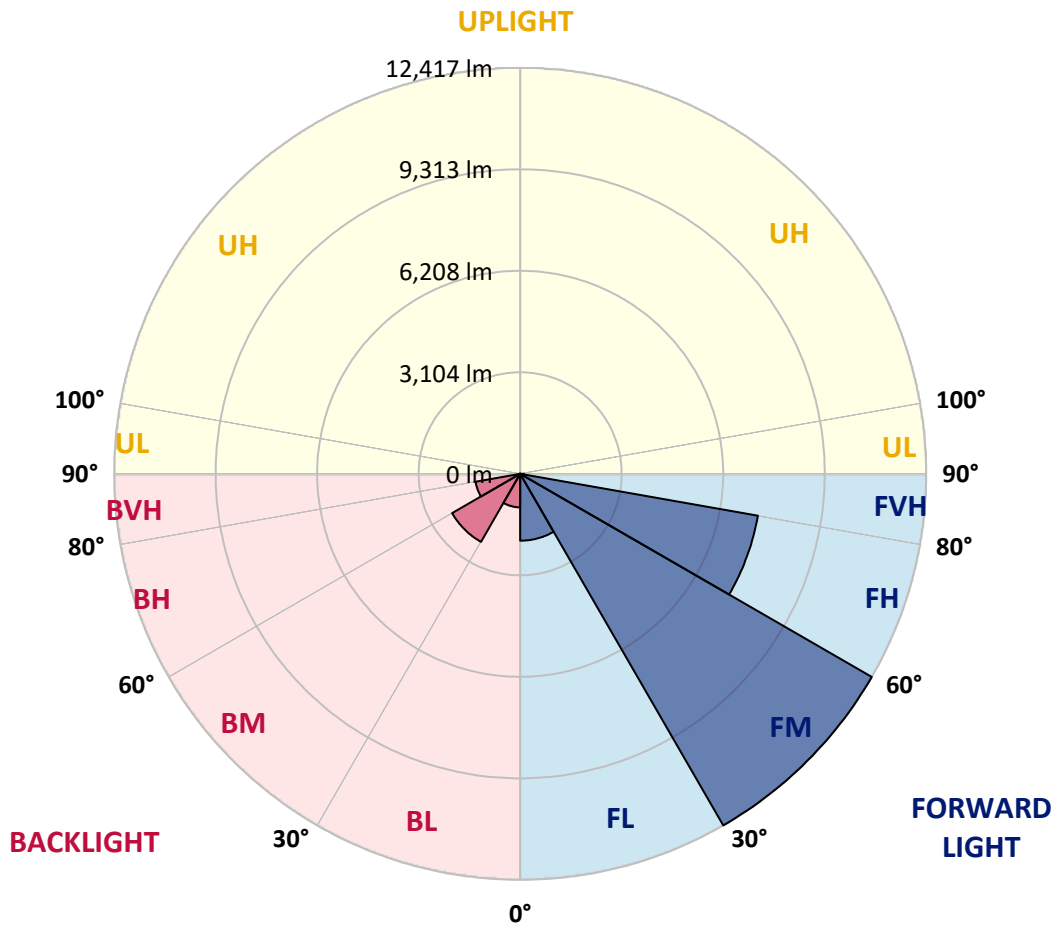
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2045.2	7.6			
FM (30°-60°)	12416.8	46.3			
FH (60°-80°)	7380.9	27.5			G3/7500
FVH (80°-90°)	109.8	0.4			G2/225
BL (0°-30°)	1025.6	3.8	B3/2500		
BM (30°-60°)	2403.3	9.0	B2/2500		
BH (60°-80°)	1386.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	41.2	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°	4441.3	4441.3	4441.3	4441.3	4441.3	4441.3	4441.3	4441.3	4441.3	4441.3
2.5°	4694.2	4721.2	4705.8	4698.1	4684.5	4665.2	4649.8	4601.5	4551.4	4518.6
5°	4788.8	4815.8	4813.9	4821.6	4831.2	4837.0	4833.2	4779.1	4707.7	4651.7
7.5°	4707.7	4738.6	4763.7	4802.3	4869.8	4941.3	4976.0	4964.4	4891.1	4813.9
10°	4478.0	4510.8	4570.7	4661.4	4804.2	4958.6	5088.0	5147.8	5101.5	5016.5
12.5°	4057.2	4090.1	4207.8	4404.7	4644.0	4912.3	5159.4	5319.6	5331.2	5246.2
15°	3584.3	3617.2	3742.6	3989.7	4354.5	4784.9	5198.0	5501.0	5603.3	5530.0
17.5°	3291.0	3319.9	3414.5	3613.3	3993.5	4530.1	5184.5	5694.0	5927.6	5869.7
20°	3202.2	3227.3	3271.7	3410.6	3727.2	4265.7	5095.7	5875.5	6276.9	6244.1
22.5°	3296.7	3319.9	3333.4	3395.2	3594.0	4092.0	4983.7	6060.8	6682.3	6686.1
25°	3514.9	3538.0	3522.6	3561.2	3648.0	4037.9	4941.3	6278.9	7191.9	7234.3
27.5°	3873.9	3875.8	3839.1	3837.2	3850.7	4119.0	4985.7	6512.4	7834.6	7913.7
30°	4593.8	4564.9	4424.0	4271.5	4202.0	4362.2	5109.2	6788.4	8593.2	8734.1
32.5°	5703.7	5661.2	5402.6	5037.8	4671.0	4754.0	5331.2	7103.1	9419.3	9674.1
35°	6908.1	6896.5	6626.3	6083.9	5443.1	5311.9	5692.1	7516.1	10320.7	10726.0
37.5°	8027.6	8021.8	7867.4	7228.5	6448.7	6089.7	6271.2	8056.6	11285.8	11872.5
40°	9050.6	9068.0	8913.6	8342.2	7556.7	7087.6	7058.7	8724.4	12358.9	13121.4
42.5°	9934.6	9953.9	9797.6	9374.9	8651.1	8191.7	8025.7	9542.8	13407.0	14462.8
45°	10534.9	10654.6	10631.4	10293.6	9774.4	9297.7	9187.7	10569.7	14601.8	15885.4
47.5°	10704.8	10814.8	10988.5	11034.8	10718.3	10249.3	10380.5	11806.9	15810.1	17309.9
50°	10285.9	10388.2	10749.2	11229.8	11449.8	11305.1	11540.5	13132.9	17047.3	18730.5
52.5°	9459.8	9564.0	10019.6	10780.1	11677.6	12133.1	12704.4	14439.7	18246.0	20075.8
55°	8265.0	8375.1	8959.9	9820.8	11243.3	12474.8	13675.3	15744.5	19344.3	21286.0
57.5°	6639.8	6720.9	7328.9	8533.3	10150.8	12135.0	14391.4	17169.0	20378.8	22475.0
60°	4327.5	4398.9	5105.3	6448.7	8340.3	11000.1	14534.3	18757.5	21753.1	24021.1
62.5°	2877.9	2926.2	3345.0	4331.3	5873.5	8820.9	13698.5	20025.6	23768.2	26711.8
65°	1974.6	2022.8	2441.7	3128.8	3794.7	5834.9	11295.4	19857.7	25594.2	28848.5
67.5°	1409.0	1449.6	1804.7	2453.3	2746.6	3389.4	7657.0	17711.3	25331.7	28929.5
70°	1009.5	1032.6	1326.0	1910.9	2183.0	2036.3	4258.0	13546.0	22179.7	26713.7
72.5°	706.4	714.2	920.7	1455.4	1758.4	1486.2	2026.7	9031.3	16775.2	20967.5
75°	478.7	488.3	619.6	1067.4	1411.0	1134.9	1073.2	4842.8	9847.8	11606.2
77.5°	293.4	297.2	399.5	729.6	1055.8	864.7	691.0	2051.8	3810.2	3740.7
80°	166.0	166.0	254.8	453.6	720.0	557.8	484.5	872.4	1206.4	1059.7
82.5°	92.6	94.6	185.3	281.8	476.8	330.1	266.4	403.4	521.1	461.3
85°	38.6	42.5	113.9	133.2	227.8	164.1	108.1	169.9	193.0	171.8
87.5°	3.9	5.8	34.7	25.1	27.0	32.8	15.4	32.8	27.0	27.0
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°
4441.3	0°	4441.3	4441.3	4441.3	4441.3	4441.3	4441.3	4441.3	4441.3	4441.3	4441.3
4507.0	2.5°	4470.3	4441.3	4368.0	4283.1	4171.1	4117.1	4043.7	3993.5	3951.1	3954.9
4618.9	5°	4557.2	4483.8	4319.7	4115.1	3860.4	3678.9	3485.9	3352.7	3244.6	3221.5
4773.3	7.5°	4676.8	4561.0	4273.4	3904.8	3474.3	3148.1	2856.7	2669.4	2536.3	2493.8
4960.6	10°	4831.2	4663.3	4213.6	3640.3	3020.7	2605.7	2293.1	2146.4	2055.6	2024.8
5180.6	12.5°	5010.7	4781.1	4134.4	3318.0	2553.6	2154.1	1955.3	1881.9	1853.0	1843.3
5450.8	15°	5236.6	4927.7	4014.8	2935.8	2157.9	1878.1	1793.1	1783.5	1787.3	1783.5
5775.1	17.5°	5504.9	5088.0	3819.8	2542.0	1891.6	1737.2	1706.3	1714.0	1723.7	1721.7
6138.0	20°	5798.3	5246.2	3570.8	2192.7	1710.1	1636.8	1619.4	1627.1	1634.9	1631.0
6556.8	22.5°	6132.2	5416.1	3294.8	1920.5	1588.5	1544.1	1524.8	1526.8	1526.8	1519.1
7087.6	25°	6531.7	5603.3	3005.3	1727.5	1495.9	1461.1	1438.0	1430.3	1418.7	1395.5
7732.3	27.5°	7008.5	5802.1	2727.3	1592.4	1422.5	1389.7	1362.7	1343.4	1314.5	1275.8
8506.3	30°	7545.1	6043.4	2491.9	1507.5	1364.6	1331.8	1300.9	1272.0	1229.5	1181.3
9396.1	32.5°	8176.2	6302.0	2320.1	1451.5	1312.5	1277.8	1241.1	1206.4	1160.0	1111.8
10395.9	35°	8929.0	6614.7	2219.7	1412.9	1272.0	1225.7	1185.1	1146.5	1111.8	1069.3
11482.6	37.5°	9745.5	6946.7	2188.8	1393.6	1245.0	1173.5	1127.2	1100.2	1096.3	1071.2
12658.1	40°	10639.2	7340.5	2212.0	1382.0	1216.0	1123.4	1073.2	1067.4	1077.0	1032.6
13914.7	42.5°	11584.9	7807.6	2250.6	1368.5	1175.5	1073.2	1024.9	1024.9	1017.2	955.4
15242.6	45°	12607.9	8346.1	2289.2	1335.7	1127.2	1023.0	986.3	972.8	940.0	880.2
16578.3	47.5°	13638.7	8894.3	2318.1	1275.8	1069.3	980.5	947.7	916.8	868.6	814.5
17888.9	50°	14617.3	9386.5	2287.3	1187.1	1003.7	940.0	905.3	862.8	810.7	774.0
19130.0	52.5°	15491.6	9813.0	2156.0	1082.8	934.2	897.5	866.7	822.3	779.8	741.2
20249.5	55°	16252.1	10158.5	1924.4	984.4	872.4	860.9	830.0	774.0	716.1	683.3
21359.4	57.5°	16981.7	10421.0	1634.9	903.3	816.5	820.3	774.0	723.8	669.8	635.0
22855.3	60°	17952.6	10772.3	1341.5	828.0	756.6	768.2	718.0	681.4	613.8	569.4
25420.5	62.5°	19504.5	11318.6	1065.5	735.4	687.1	691.0	669.8	625.4	544.3	492.2
27321.7	65°	20735.9	11117.8	839.6	635.0	608.0	613.8	613.8	565.5	478.7	418.8
27424.0	67.5°	20597.0	9519.6	669.8	536.6	532.7	536.6	550.1	509.6	424.6	376.4
25335.5	70°	18973.7	7572.1	536.6	445.9	463.2	453.6	492.2	465.2	382.2	333.9
19641.5	72.5°	15482.0	5454.7	409.2	368.7	355.2	370.6	443.9	418.8	318.5	264.4
10403.7	75°	9046.8	2910.7	305.0	291.5	256.7	308.8	393.8	357.1	243.2	194.9
3188.7	77.5°	2945.5	1015.3	223.9	214.2	191.1	249.0	335.9	301.1	198.8	154.4
934.2	80°	789.4	306.9	152.5	140.9	123.5	185.3	266.4	239.3	142.8	100.4
401.5	82.5°	316.5	129.3	88.8	79.1	67.6	127.4	210.4	193.0	106.2	63.7
125.5	85°	102.3	42.5	32.8	25.1	30.9	79.1	125.5	131.3	75.3	32.8
19.3	87.5°	13.5	5.8	5.8	7.7	5.8	13.5	38.6	36.7	21.2	3.9
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>
4441.3
3916.3
3169.4
2451.3
2001.6
1837.5
1781.6
1717.9
1629.1
1515.2
1391.7
1272.0
1177.4
1113.7
1065.5
1069.3
1034.6
955.4
878.2
812.6
768.2
737.3
679.4
631.2
563.6
488.3
413.1
368.7
328.1
258.6
189.2
148.6
98.4
63.7
25.1
0.0
0.0

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