

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: P942874

Luminaire Tested: **GALN-SB7A-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942874
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-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 20932 lumens
Efficiency: N/A
Efficacy: 105.1 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

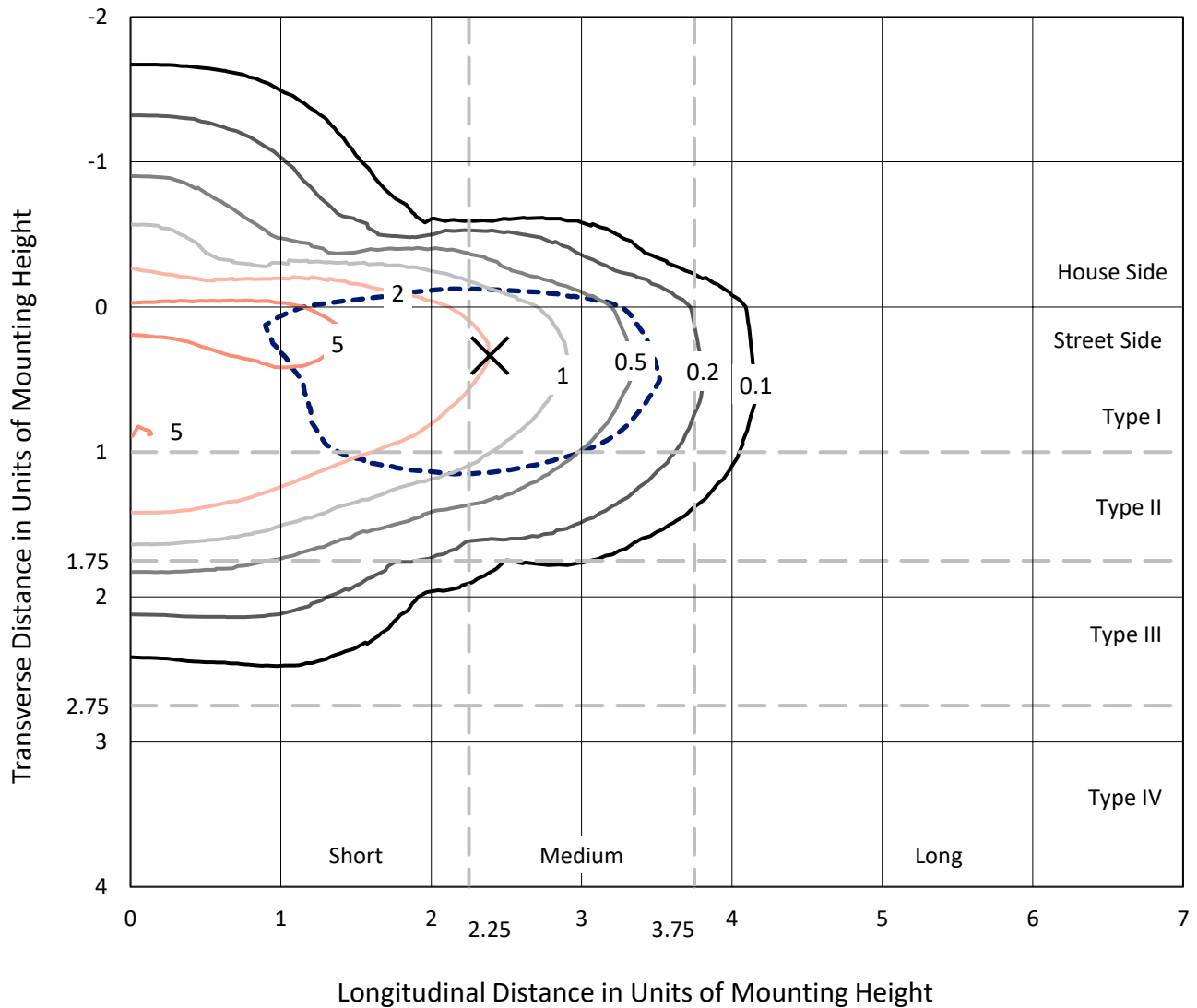
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

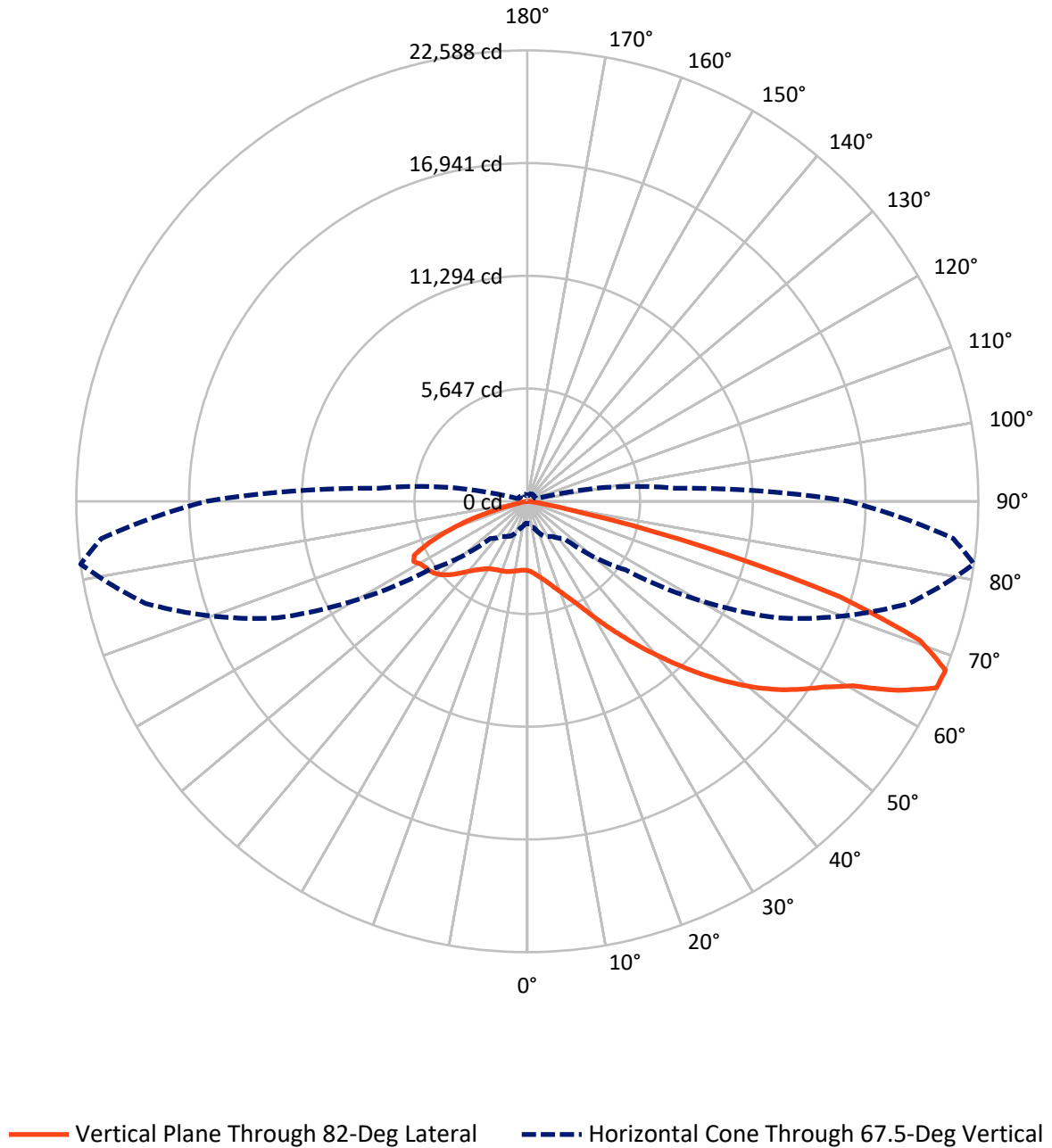
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	3791.6	0.0	3791.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17140.4	0.0	17140.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	20932.0	0.0	20932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.9	1.5
10°-20°	802.8	3.8
20°-30°	1285.9	6.1
30°-40°	2273.8	10.9
40°-50°	3984.0	19.0
50°-60°	5313.5	25.4
60°-70°	4946.6	23.6
70°-80°	1898.5	9.1
80°-90°	117.9	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°	20932.0	100.0
0°-180°	20932.0	100.0

Coefficient of Utilization



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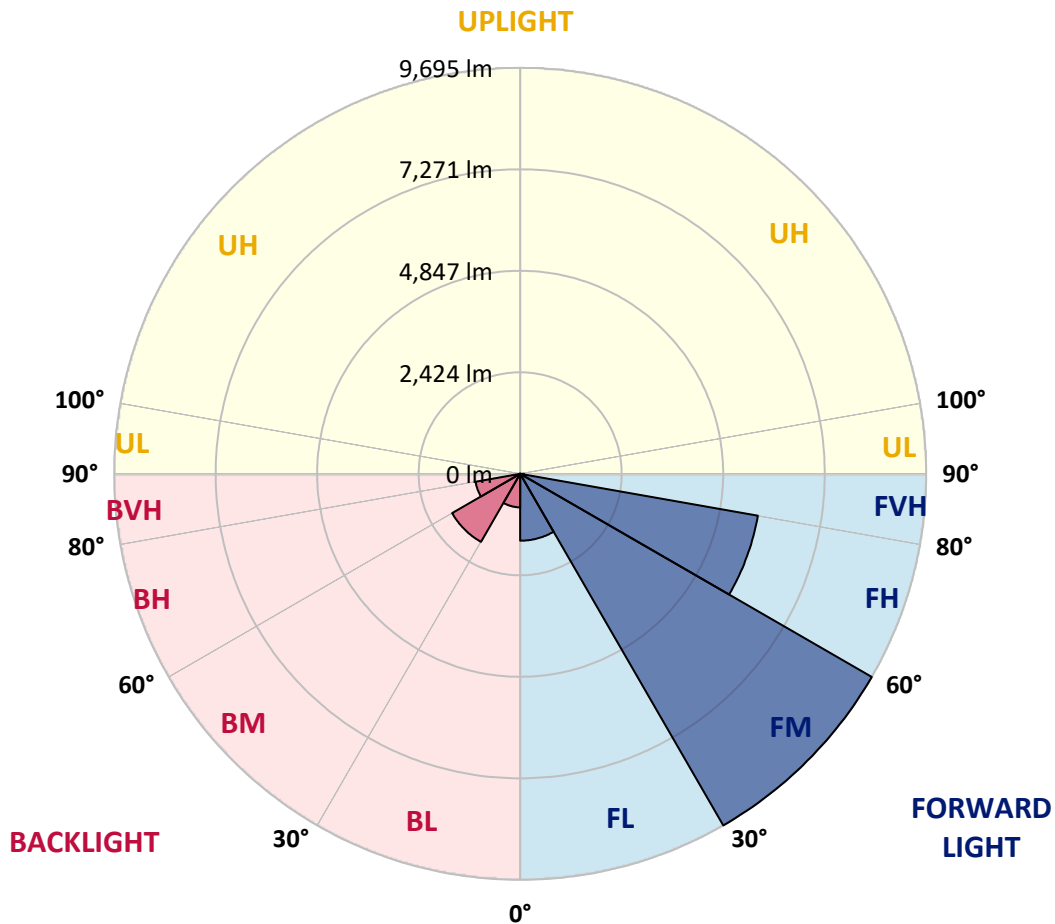
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1596.9	7.6			
FM (30°-60°)	9694.8	46.3			
FH (60°-80°)	5762.9	27.5			G3/7500
FVH (80°-90°)	85.7	0.4			G1/100
BL (0°-30°)	800.8	3.8	B2/1000		
BM (30°-60°)	1876.5	9.0	B2/2500		
BH (60°-80°)	1082.2	5.2	B3/2500		G3/2500
BVH (80°-90°)	32.2	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°	3467.7	3467.7	3467.7	3467.7	3467.7	3467.7	3467.7	3467.7	3467.7	3467.7
2.5°	3665.1	3686.2	3674.2	3668.2	3657.6	3642.5	3630.5	3592.8	3553.6	3528.0
5°	3739.0	3760.1	3758.6	3764.6	3772.1	3776.7	3773.7	3731.5	3675.7	3632.0
7.5°	3675.7	3699.8	3719.4	3749.5	3802.3	3858.1	3885.2	3876.1	3818.9	3758.6
10°	3496.4	3522.0	3568.7	3639.5	3751.0	3871.6	3972.6	4019.3	3983.1	3916.8
12.5°	3167.8	3193.4	3285.4	3439.1	3626.0	3835.4	4028.3	4153.4	4162.5	4096.2
15°	2798.6	2824.2	2922.2	3115.1	3399.9	3736.0	4058.5	4295.1	4375.0	4317.7
17.5°	2569.5	2592.1	2666.0	2821.2	3118.1	3537.0	4047.9	4445.8	4628.2	4582.9
20°	2500.2	2519.8	2554.5	2663.0	2910.1	3330.6	3978.6	4587.5	4900.9	4875.3
22.5°	2574.0	2592.1	2602.7	2650.9	2806.1	3194.9	3891.2	4732.1	5217.4	5220.4
25°	2744.3	2762.4	2750.4	2780.5	2848.3	3152.8	3858.1	4902.4	5615.3	5648.4
27.5°	3024.7	3026.2	2997.5	2996.0	3006.6	3216.0	3892.7	5084.8	6117.1	6178.9
30°	3586.8	3564.2	3454.2	3335.1	3280.8	3405.9	3989.2	5300.3	6709.4	6819.4
32.5°	4453.3	4420.2	4218.2	3933.4	3647.1	3711.9	4162.5	5545.9	7354.4	7553.3
35°	5393.7	5384.7	5173.7	4750.2	4249.9	4147.4	4444.3	5868.5	8058.2	8374.7
37.5°	6267.8	6263.3	6142.7	5643.9	5035.1	4754.7	4896.4	6290.4	8811.7	9269.9
40°	7066.6	7080.1	6959.6	6513.5	5900.1	5533.9	5511.3	6811.9	9649.6	10244.9
42.5°	7756.8	7771.9	7649.8	7319.7	6754.6	6395.9	6266.3	7450.9	10468.0	11292.3
45°	8225.5	8318.9	8300.8	8037.1	7631.7	7259.5	7173.6	8252.6	11400.8	12403.0
47.5°	8358.1	8444.0	8579.6	8615.8	8368.7	8002.4	8104.9	9218.6	12344.3	13515.2
50°	8031.1	8110.9	8392.8	8768.0	8939.8	8826.8	9010.7	10254.0	13310.3	14624.4
52.5°	7386.1	7467.4	7823.1	8416.9	9117.7	9473.3	9919.4	11274.2	14246.2	15674.8
55°	6453.2	6539.1	6995.7	7667.9	8778.6	9740.1	10677.5	12293.0	15103.7	16619.8
57.5°	5184.3	5247.6	5722.3	6662.7	7925.6	9474.8	11236.6	13405.2	15911.4	17548.1
60°	3378.8	3434.6	3986.1	5035.1	6512.0	8588.7	11348.1	14645.5	16984.5	18755.2
62.5°	2247.0	2284.7	2611.7	3381.8	4586.0	6887.2	10695.5	15635.7	18557.8	20856.1
65°	1541.7	1579.4	1906.4	2442.9	2962.9	4555.8	8819.3	15504.5	19983.5	22524.4
67.5°	1100.1	1131.8	1409.1	1915.5	2144.5	2646.4	5978.5	13828.7	19778.5	22587.7
70°	788.2	806.3	1035.3	1492.0	1704.5	1589.9	3324.6	10576.5	17317.5	20857.6
72.5°	551.6	557.6	718.9	1136.3	1372.9	1160.4	1582.4	7051.5	13097.8	16371.1
75°	373.7	381.3	483.8	833.4	1101.7	886.1	837.9	3781.2	7689.0	9061.9
77.5°	229.1	232.1	312.0	569.7	824.4	675.2	539.5	1602.0	2974.9	2920.7
80°	129.6	129.6	198.9	354.2	562.1	435.5	378.3	681.2	941.9	827.4
82.5°	72.3	73.8	144.7	220.0	372.2	257.7	208.0	315.0	406.9	360.2
85°	30.1	33.2	88.9	104.0	177.8	128.1	84.4	132.6	150.7	134.1
87.5°	3.0	4.5	27.1	19.6	21.1	25.6	12.1	25.6	21.1	21.1
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°
3467.7	0°	3467.7	3467.7	3467.7	3467.7	3467.7	3467.7	3467.7	3467.7	3467.7	3467.7
3519.0	2.5°	3490.3	3467.7	3410.5	3344.1	3256.7	3214.5	3157.3	3118.1	3084.9	3087.9
3606.4	5°	3558.1	3500.9	3372.8	3213.0	3014.1	2872.4	2721.7	2617.7	2533.4	2515.3
3726.9	7.5°	3651.6	3561.2	3336.6	3048.8	2712.7	2458.0	2230.4	2084.3	1980.3	1947.1
3873.1	10°	3772.1	3641.0	3289.9	2842.3	2358.5	2034.5	1790.4	1675.8	1605.0	1580.9
4044.9	12.5°	3912.3	3733.0	3228.1	2590.6	1993.8	1681.9	1526.6	1469.4	1446.8	1439.2
4255.9	15°	4088.6	3847.5	3134.7	2292.2	1684.9	1466.4	1400.1	1392.5	1395.5	1392.5
4509.1	17.5°	4298.1	3972.6	2982.5	1984.8	1476.9	1356.3	1332.2	1338.3	1345.8	1344.3
4792.4	20°	4527.2	4096.2	2788.0	1712.0	1335.2	1278.0	1264.4	1270.4	1276.5	1273.5
5119.5	22.5°	4787.9	4228.8	2572.5	1499.5	1240.3	1205.6	1190.6	1192.1	1192.1	1186.0
5533.9	25°	5099.9	4375.0	2346.5	1348.8	1168.0	1140.8	1122.8	1116.7	1107.7	1089.6
6037.2	27.5°	5472.1	4530.2	2129.5	1243.3	1110.7	1085.1	1064.0	1048.9	1026.3	996.2
6641.6	30°	5891.1	4718.6	1945.6	1177.0	1065.5	1039.9	1015.8	993.1	960.0	922.3
7336.3	32.5°	6383.9	4920.5	1811.5	1133.3	1024.8	997.7	969.0	941.9	905.7	868.1
8117.0	35°	6971.6	5164.7	1733.1	1103.2	993.1	957.0	925.3	895.2	868.1	834.9
8965.4	37.5°	7609.1	5423.9	1709.0	1088.1	972.0	916.3	880.1	859.0	856.0	836.4
9883.2	40°	8306.9	5731.3	1727.1	1079.0	949.4	877.1	837.9	833.4	840.9	806.3
10864.3	42.5°	9045.3	6096.0	1757.2	1068.5	917.8	837.9	800.2	800.2	794.2	746.0
11901.2	45°	9844.1	6516.5	1787.4	1042.9	880.1	798.7	770.1	759.6	733.9	687.2
12944.1	47.5°	10648.8	6944.5	1810.0	996.2	834.9	765.6	740.0	715.8	678.2	636.0
13967.3	50°	11412.9	7328.8	1785.9	926.8	783.7	733.9	706.8	673.7	633.0	604.3
14936.4	52.5°	12095.6	7661.8	1683.4	845.5	729.4	700.8	676.7	642.0	608.8	578.7
15810.5	55°	12689.4	7931.6	1502.5	768.6	681.2	672.1	648.0	604.3	559.1	533.5
16677.0	57.5°	13259.0	8136.6	1276.5	705.3	637.5	640.5	604.3	565.1	522.9	495.8
17845.0	60°	14017.1	8410.9	1047.4	646.5	590.8	599.8	560.6	532.0	479.2	444.6
19847.9	62.5°	15228.7	8837.3	831.9	574.2	536.5	539.5	522.9	488.3	425.0	384.3
21332.3	65°	16190.2	8680.6	655.6	495.8	474.7	479.2	479.2	441.6	373.7	327.0
21412.2	67.5°	16081.7	7432.8	522.9	419.0	415.9	419.0	429.5	397.9	331.6	293.9
19781.5	70°	14814.3	5912.2	419.0	348.1	361.7	354.2	384.3	363.2	298.4	260.7
15335.7	72.5°	12088.1	4258.9	319.5	287.8	277.3	289.4	346.6	327.0	248.7	206.5
8123.0	75°	7063.5	2272.6	238.1	227.6	200.4	241.1	307.4	278.8	189.9	152.2
2489.6	77.5°	2299.8	792.7	174.8	167.3	149.2	194.4	262.2	235.1	155.2	120.6
729.4	80°	616.4	239.6	119.1	110.0	96.5	144.7	208.0	186.9	111.5	78.4
313.5	82.5°	247.2	101.0	69.3	61.8	52.7	99.5	164.3	150.7	82.9	49.7
98.0	85°	79.9	33.2	25.6	19.6	24.1	61.8	98.0	102.5	58.8	25.6
15.1	87.5°	10.5	4.5	4.5	6.0	4.5	10.5	30.1	28.6	16.6	3.0
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>
3467.7
3057.8
2474.6
1914.0
1562.8
1434.7
1391.0
1341.3
1272.0
1183.0
1086.6
993.1
919.3
869.6
831.9
834.9
807.8
746.0
685.7
634.5
599.8
575.7
530.5
492.8
440.1
381.3
322.5
287.8
256.2
201.9
147.7
116.0
76.9
49.7
19.6
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