

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: P950697

Luminaire Tested: **GALN-SB5A-827-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950697  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5A-827-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

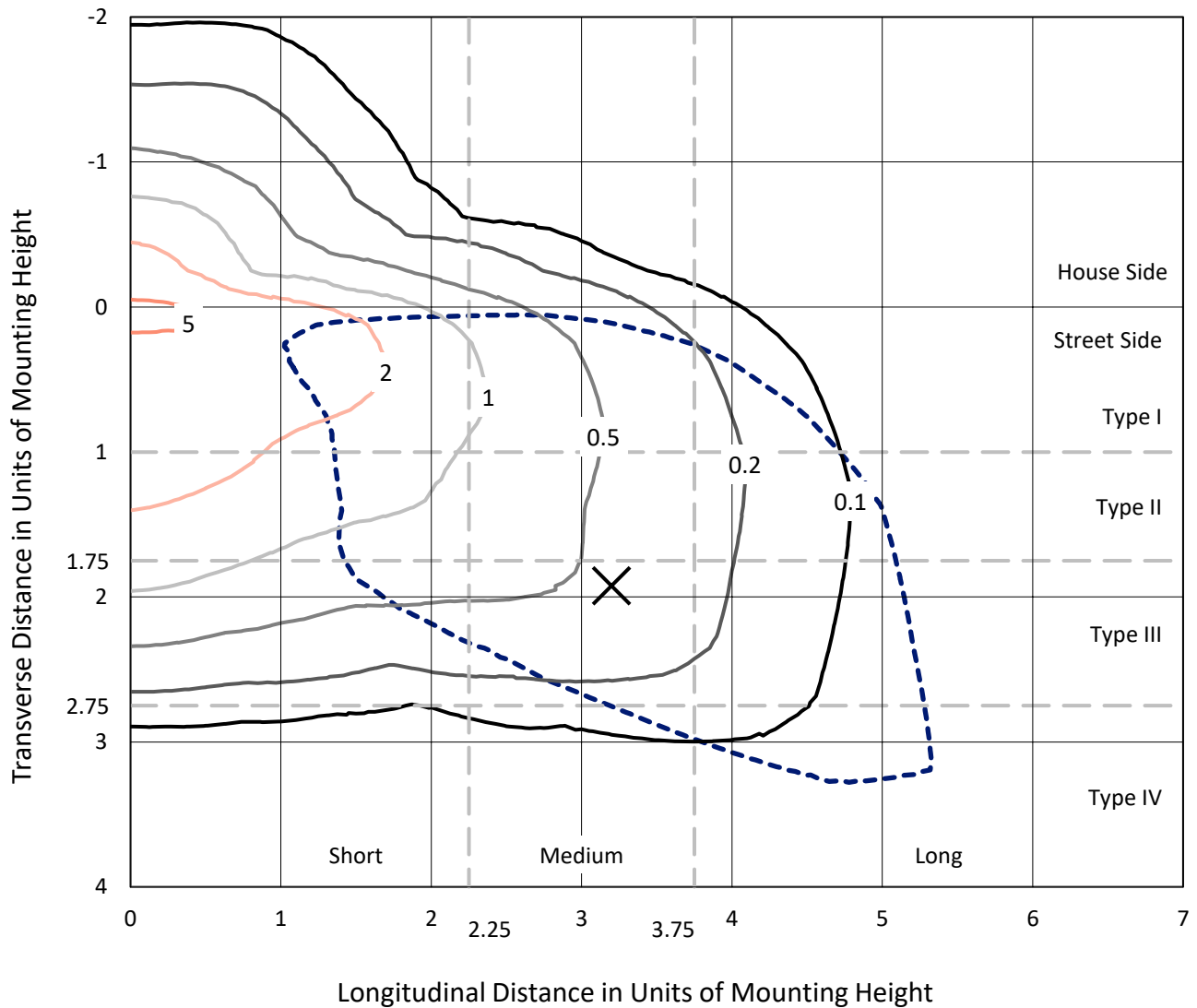
Lumens per Lamp: N/A  
Luminaire Lumens: 19257 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

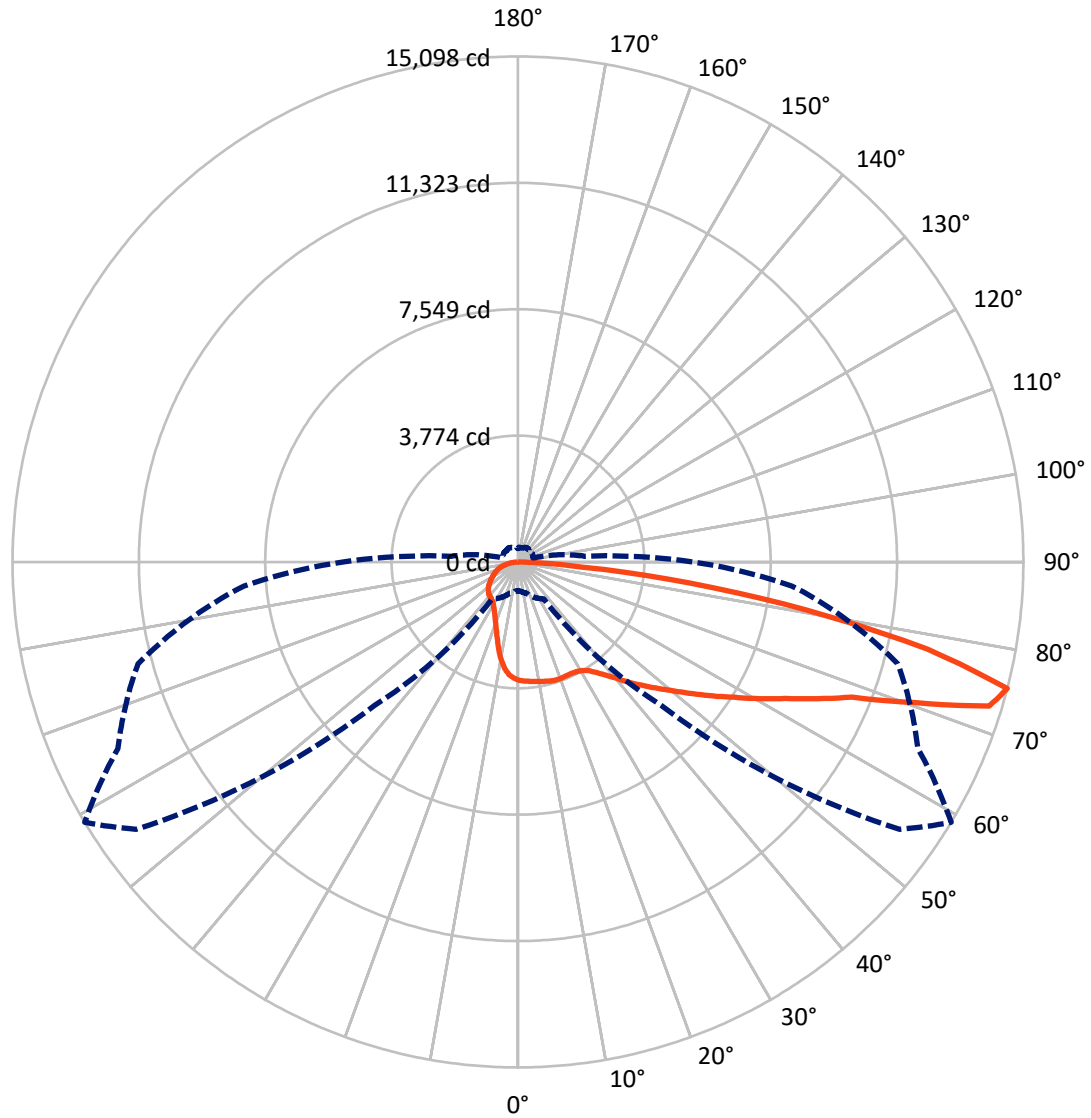
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3611.8	0.0	3611.8
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	15645.2	0.0	15645.2
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	19257.0	0.0	19257.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.9	1.6
10°-20°	810.1	4.2
20°-30°	1230.5	6.4
30°-40°	1829.1	9.5
40°-50°	2720.1	14.1
50°-60°	3692.3	19.2
60°-70°	4507.7	23.4
70°-80°	3537.6	18.4
80°-90°	612.8	3.2
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°	19257.0	100.0
0°-180°	19257.0	100.0



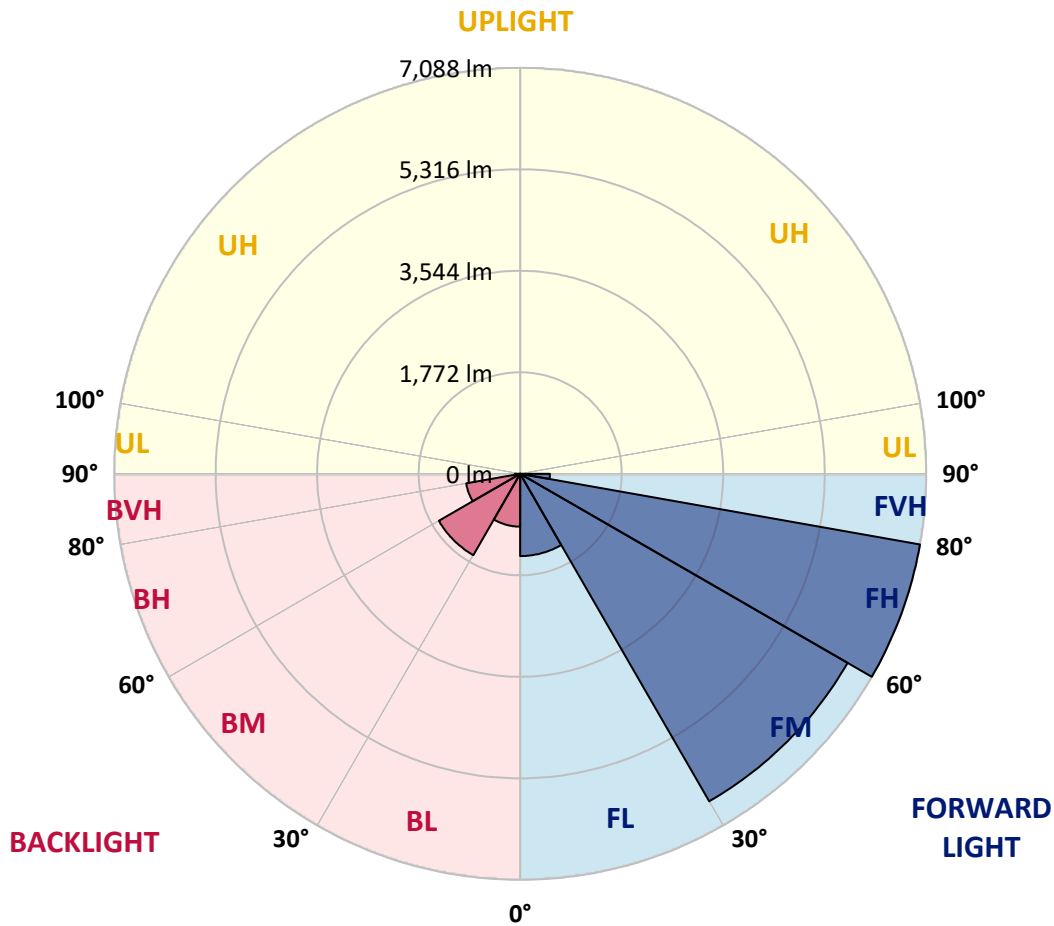
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1435.8	7.5			
FM (30°-60°)	6602.1	34.3			
FH (60°-80°)	7088.3	36.8			G3/7500
FVH (80°-90°)	519.0	2.7			G4/750
BL (0°-30°)	921.7	4.8	B2/1000		
BM (30°-60°)	1639.4	8.5	B2/2500		
BH (60°-80°)	956.9	5.0	B2/1000		G2/1000
BVH (80°-90°)	93.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6
2.5°	3564.6	3552.2	3564.6	3559.4	3557.4	3553.2	3554.3	3561.5	3557.4	3562.5
5°	3540.8	3533.5	3546.0	3542.9	3556.3	3558.4	3571.9	3580.2	3585.3	3586.4
7.5°	3501.4	3494.2	3511.8	3526.3	3555.3	3563.6	3591.6	3605.0	3612.3	3624.7
10°	3357.4	3354.3	3397.8	3452.7	3521.1	3563.6	3606.1	3628.8	3640.2	3673.4
12.5°	3102.6	3106.7	3163.7	3269.4	3406.1	3542.9	3622.6	3655.8	3673.4	3714.8
15°	2859.2	2858.1	2920.3	3033.2	3224.8	3451.7	3630.9	3687.9	3717.9	3779.1
17.5°	2718.3	2714.1	2757.6	2843.6	3021.8	3311.9	3610.2	3705.5	3769.7	3846.4
20°	2692.4	2684.1	2706.9	2749.3	2875.7	3158.5	3556.3	3705.5	3811.2	3910.6
22.5°	2786.6	2773.2	2763.9	2758.7	2814.6	3032.2	3495.2	3693.1	3872.3	4002.8
25°	2976.2	2955.5	2907.8	2861.2	2844.7	2975.2	3441.3	3690.0	3963.5	4127.1
27.5°	3282.8	3257.0	3160.6	3048.7	2948.2	3004.2	3417.5	3708.6	4063.9	4258.7
30°	3663.0	3635.1	3513.9	3341.9	3161.6	3111.9	3447.6	3763.5	4192.4	4433.8
32.5°	4003.9	3972.8	3869.2	3694.1	3450.7	3298.4	3542.9	3868.1	4394.4	4677.2
35°	4306.3	4270.1	4176.9	4015.2	3805.0	3560.5	3714.8	4053.6	4681.3	5072.9
37.5°	4602.6	4560.1	4458.6	4287.7	4140.6	3909.6	3952.1	4291.8	5062.6	5553.6
40°	4934.1	4873.0	4749.7	4580.9	4437.9	4318.8	4263.9	4584.0	5450.0	6090.2
42.5°	5255.3	5197.2	5050.1	4906.1	4726.9	4692.7	4625.4	4925.8	5873.7	6679.7
45°	5601.3	5531.8	5353.7	5171.3	5058.4	4941.4	4975.6	5267.7	6289.1	7280.5
47.5°	5925.5	5847.8	5637.5	5434.5	5372.3	5150.6	5296.7	5643.7	6721.1	7889.6
50°	6100.6	6023.9	5848.8	5665.5	5616.8	5408.6	5644.8	6057.1	7173.8	8496.7
52.5°	6246.6	6163.8	5934.8	5833.3	5818.8	5689.3	6073.6	6529.4	7626.5	9033.3
55°	6402.0	6309.8	6017.7	5926.5	5992.8	6004.2	6582.3	7065.0	8105.1	9556.4
57.5°	6581.2	6464.2	6097.5	6005.3	6162.7	6373.0	7166.5	7620.3	8575.4	10041.2
60°	6750.1	6632.0	6250.8	6130.6	6346.1	6800.9	7836.8	8292.6	9107.9	10473.2
62.5°	6783.2	6685.9	6373.0	6372.0	6594.7	7300.2	8630.3	8971.1	9573.0	10900.0
65°	6209.3	6148.2	5962.8	6362.7	6951.1	8019.1	9513.9	9839.2	10164.5	11272.9
67.5°	4725.9	4734.2	4720.7	5492.5	6663.1	9051.9	10793.3	10768.5	10894.8	11691.5
70°	2160.9	2209.6	2526.6	3791.5	5338.1	9171.1	12908.7	12586.5	11811.6	12233.2
72.5°	1167.5	1204.8	1334.3	1836.7	3209.3	8153.8	14489.5	14718.4	13030.9	12597.9
75°	856.7	877.4	967.6	1167.5	1347.7	6060.2	13922.8	15097.6	13183.2	11747.4
77.5°	641.2	650.6	724.1	925.1	689.9	3194.8	11124.8	12503.6	11285.4	9651.7
80°	465.1	475.5	530.4	694.1	483.8	1168.5	7638.9	8776.4	7729.0	6152.4
82.5°	321.1	325.3	349.1	472.4	337.7	453.7	4334.3	5146.5	4314.6	2158.9
85°	193.7	198.9	209.3	275.6	191.6	215.5	1870.9	1935.1	1289.7	515.9
87.5°	79.8	84.9	93.2	116.0	75.6	60.1	308.7	387.4	241.4	151.2
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°
3534.6	0°	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6	3534.6
3544.9	2.5°	3539.8	3532.5	3512.8	3485.9	3461.0	3430.0	3416.5	3405.1	3394.7	3375.0
3572.9	5°	3561.5	3541.8	3489.0	3420.6	3342.9	3258.0	3175.1	3118.1	3069.4	3033.2
3605.0	7.5°	3594.7	3557.4	3461.0	3321.2	3143.0	2960.7	2796.0	2678.9	2590.9	2558.7
3650.6	10°	3628.8	3584.3	3416.5	3169.9	2862.3	2581.5	2362.9	2242.8	2172.3	2149.5
3704.5	12.5°	3669.2	3604.0	3347.1	2959.6	2548.4	2240.7	2050.1	1979.7	1943.4	1931.0
3770.8	15°	3728.3	3620.6	3242.4	2696.5	2249.0	1992.1	1868.8	1820.1	1801.5	1800.4
3839.1	17.5°	3772.8	3623.7	3079.8	2414.7	2019.0	1841.9	1740.4	1721.7	1734.1	1752.8
3906.5	20°	3822.6	3595.7	2866.4	2157.8	1857.4	1710.3	1667.8	1680.3	1710.3	1737.2
3995.6	22.5°	3857.8	3544.9	2608.5	1957.9	1717.6	1634.7	1632.6	1658.5	1675.1	1688.6
4100.2	25°	3888.9	3459.0	2335.0	1790.1	1602.6	1589.1	1611.9	1603.6	1592.2	1603.6
4204.8	27.5°	3911.7	3323.3	2090.5	1643.0	1521.8	1558.0	1544.6	1525.9	1524.9	1531.1
4328.1	30°	3904.4	3142.0	1889.5	1503.1	1464.8	1500.0	1467.9	1464.8	1461.7	1464.8
4513.5	32.5°	3904.4	2935.8	1735.2	1406.8	1428.5	1415.1	1412.0	1404.7	1392.3	1391.2
4765.3	35°	3926.2	2729.7	1602.6	1355.0	1398.5	1366.4	1368.5	1350.8	1324.9	1312.5
5098.8	37.5°	3970.7	2563.9	1471.0	1330.1	1345.7	1344.6	1336.3	1306.3	1260.7	1221.4
5515.3	40°	4078.4	2515.2	1380.9	1318.7	1320.8	1333.2	1311.5	1253.5	1149.9	1085.7
5937.9	42.5°	4247.3	2597.1	1361.2	1290.8	1304.2	1316.7	1274.2	1139.5	1066.0	1027.6
6381.3	45°	4461.7	2740.0	1403.7	1250.4	1264.9	1286.6	1160.2	1096.0	1062.9	1063.9
6820.5	47.5°	4733.1	2890.2	1482.4	1215.1	1207.9	1220.3	1084.6	1045.2	999.7	1011.1
7242.2	50°	5047.0	3042.5	1557.0	1167.5	1144.7	1104.3	1035.9	998.6	940.6	913.7
7649.3	52.5°	5386.8	3189.6	1587.0	1109.5	1076.3	1029.7	1002.8	957.2	886.8	842.2
8033.6	55°	5709.0	3323.3	1553.9	1040.1	1008.0	971.7	967.6	939.6	864.0	801.8
8375.5	57.5°	6013.6	3435.1	1471.0	969.6	938.5	916.8	944.8	931.3	836.0	756.2
8698.7	60°	6271.5	3511.8	1350.8	898.1	876.4	865.0	907.5	903.3	796.6	707.5
8988.7	62.5°	6476.6	3541.8	1218.2	829.8	824.6	803.9	855.7	855.7	746.9	659.9
9243.6	65°	6637.2	3512.8	1083.6	762.4	772.8	741.7	792.5	786.3	694.1	617.4
9536.7	67.5°	6779.1	3417.5	934.4	696.1	720.0	680.6	726.2	711.7	636.1	574.9
9790.5	70°	6842.3	3195.8	764.5	629.8	658.8	620.5	659.9	633.0	570.8	529.4
9511.9	72.5°	6334.7	2656.1	601.9	560.4	585.3	554.2	588.4	557.3	500.4	481.7
8213.9	75°	5240.7	1993.1	463.1	484.8	503.5	479.6	502.4	479.6	427.8	441.3
6067.4	77.5°	3806.0	1345.7	354.3	405.0	413.3	400.9	420.6	394.7	348.1	345.0
3023.9	80°	1892.6	788.3	277.6	320.1	317.0	308.7	331.5	319.1	279.7	296.3
816.3	82.5°	548.0	337.7	202.0	224.8	218.6	220.7	237.2	243.4	364.6	361.5
253.8	85°	172.0	132.6	121.2	125.3	119.1	122.2	139.9	277.6	256.9	150.2
78.7	87.5°	44.5	45.6	30.0	32.1	33.1	39.4	44.5	168.9	80.8	52.8
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>
3534.6
3365.7
3003.1
2502.8
2114.3
1934.1
1804.6
1760.0
1746.6
1695.8
1610.9
1541.5
1476.2
1404.7
1324.9
1234.8
1093.9
1027.6
1069.1
1040.1
920.9
841.2
801.8
752.1
704.4
656.8
613.3
570.8
521.1
466.2
403.0
329.4
293.2
369.8
162.6
55.9
0.0

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