

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: P955336

Luminaire Tested: **GALN-SB8B-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955336
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-827-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39355 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

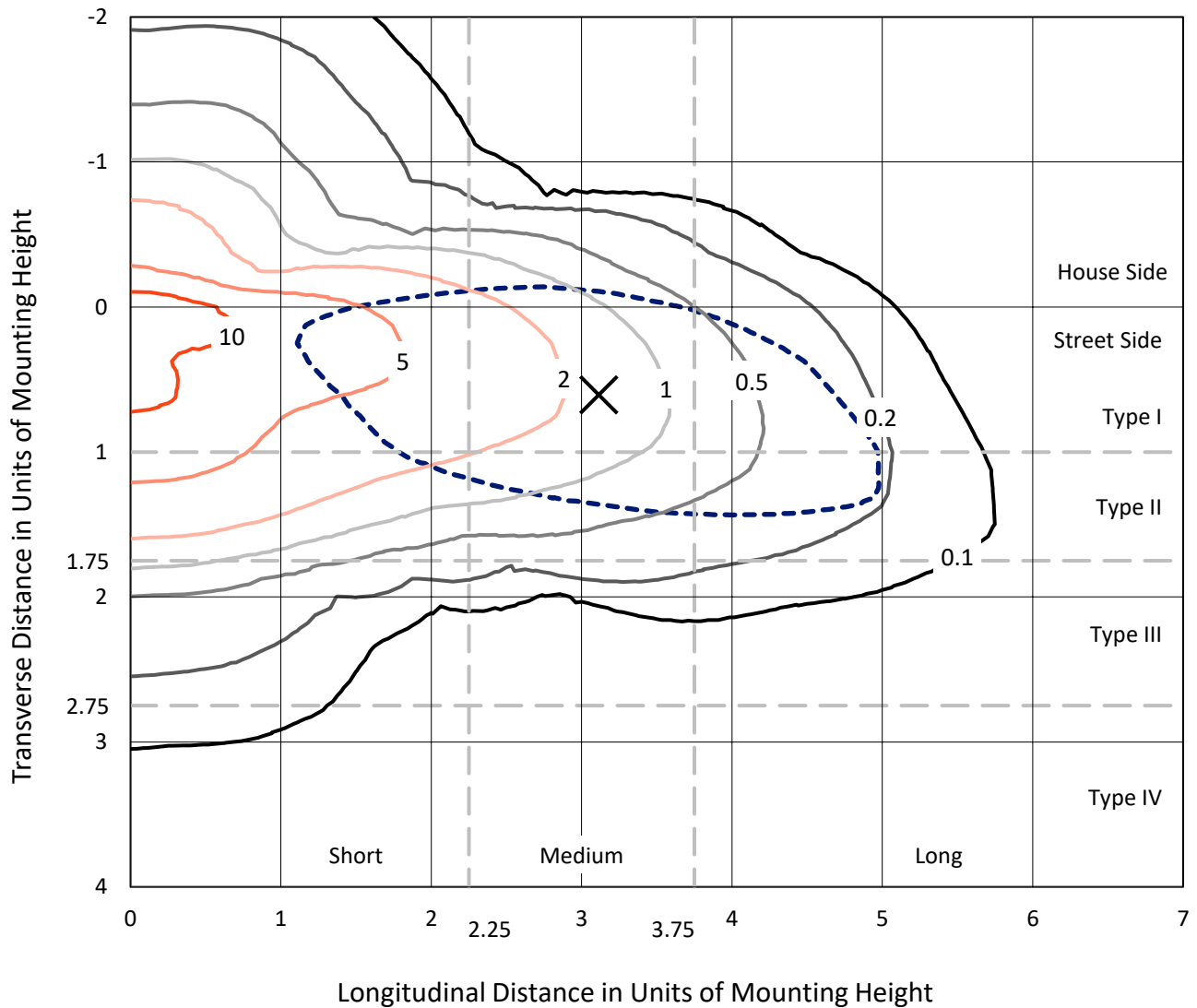
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

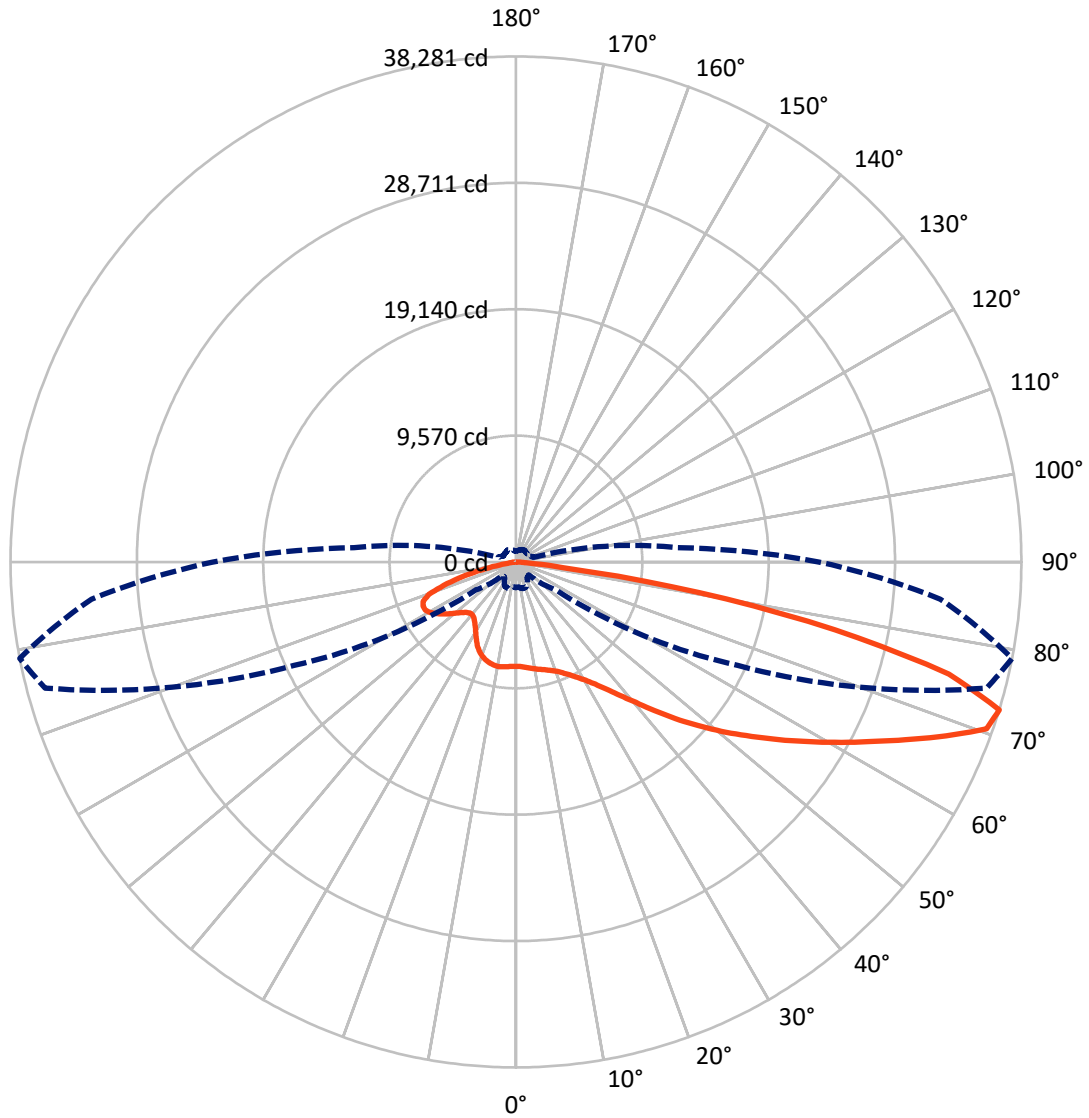
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8660.3	0.0	8660.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	30694.7	0.0	30694.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	39355.0	0.0	39355.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.1	1.8
10°-20°	1874.9	4.8
20°-30°	3025.3	7.7
30°-40°	4540.5	11.5
40°-50°	6441.0	16.4
50°-60°	8134.1	20.7
60°-70°	8261.3	21.0
70°-80°	5630.4	14.3
80°-90°	730.5	1.9
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°	39355.0	100.0
0°-180°	39355.0	100.0

Coefficient of Utilization



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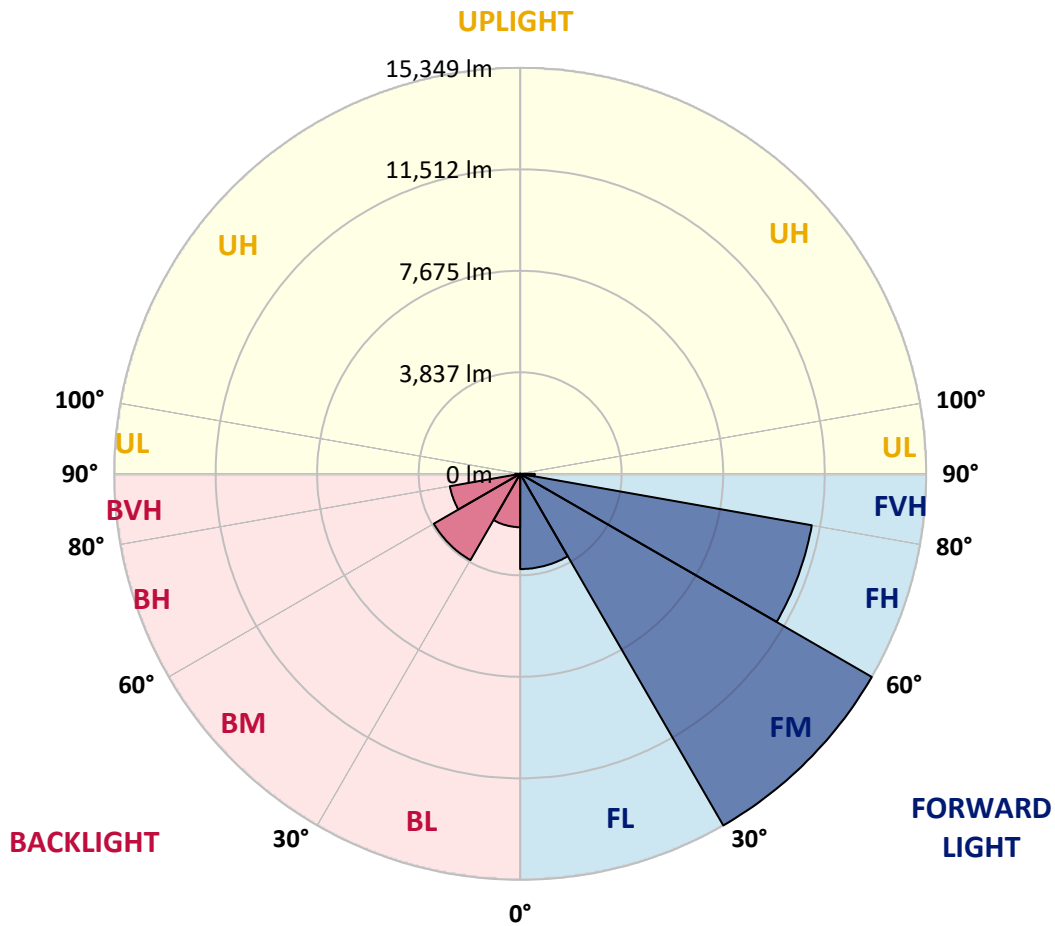
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3600.0	9.1			
FM (30°-60°)	15349.3	39.0			
FH (60°-80°)	11195.2	28.4			G4/12000
FVH (80°-90°)	550.3	1.4			G4/750
BL (0°-30°)	2017.2	5.1	B3/2500		
BM (30°-60°)	3766.3	9.6	B3/5000		
BH (60°-80°)	2696.5	6.9	B4/5000		G4/5000
BVH (80°-90°)	180.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7900.1	7900.1	7900.1	7900.1	7900.1	7900.1	7900.1	7900.1	7900.1	7900.1
2.5°	7904.3	7866.8	7889.7	7881.4	7891.8	7904.3	7908.5	7914.7	7935.5	7933.4
5°	7887.7	7850.2	7881.4	7871.0	7898.1	7927.2	7952.2	7975.1	8008.4	8023.0
7.5°	7852.3	7827.3	7858.5	7889.7	7939.7	7983.4	8018.8	8070.8	8118.7	8127.0
10°	7646.2	7627.4	7700.3	7781.5	7918.9	8037.5	8114.6	8174.9	8227.0	8235.3
12.5°	7431.8	7408.9	7490.0	7600.4	7823.1	8037.5	8199.9	8279.0	8324.8	8351.9
15°	7396.4	7377.6	7423.4	7519.2	7704.5	7981.3	8258.2	8403.9	8443.5	8474.7
17.5°	7567.1	7531.7	7550.4	7583.7	7692.0	7929.3	8304.0	8545.5	8605.8	8639.2
20°	7962.6	7912.6	7883.5	7816.9	7798.1	7937.6	8299.8	8716.2	8795.3	8836.9
22.5°	8489.3	8456.0	8393.5	8224.9	8041.7	8039.6	8378.9	8934.8	9082.6	9122.1
25°	9126.3	9076.3	8997.2	8768.2	8416.4	8241.5	8512.2	9213.7	9461.4	9471.8
27.5°	9859.0	9784.1	9675.9	9374.0	8899.4	8558.0	8716.2	9534.3	9896.5	9892.4
30°	10631.4	10556.4	10441.9	10075.5	9478.1	8984.7	8999.3	9879.9	10412.8	10389.9
32.5°	11195.5	11139.3	11116.4	10833.3	10144.2	9488.5	9324.0	10262.9	11049.8	11029.0
35°	11628.5	11555.6	11582.7	11439.1	10870.8	10052.6	9721.7	10718.8	11824.2	11822.1
37.5°	12057.3	11992.8	12015.7	11920.0	11543.2	10768.8	10206.7	11276.7	12783.9	12829.7
40°	12448.7	12380.0	12471.6	12382.1	12065.7	11530.7	10758.3	11907.5	13895.5	13982.9
42.5°	12683.9	12629.8	12781.8	12783.9	12519.5	12173.9	11364.1	12602.8	15182.0	15377.7
45°	12765.1	12746.4	12975.4	13023.3	12921.3	12546.5	11909.5	13360.5	16568.4	16918.2
47.5°	12677.7	12642.3	12958.7	13135.7	13216.9	12721.4	12361.3	14180.7	17984.0	18496.1
50°	12236.4	12167.7	12638.1	13010.8	13300.1	12835.9	12817.2	15127.9	19593.2	20153.2
52.5°	11443.2	11391.2	11926.2	12573.6	13116.9	12892.1	13329.3	16162.5	21121.2	21845.6
55°	10429.4	10360.7	10949.9	11795.0	12661.0	12873.4	13841.4	17319.9	22923.9	23658.8
57.5°	8822.3	8685.0	9430.2	10429.4	11917.9	12850.5	14374.3	18471.1	24755.9	25636.4
60°	6478.3	6274.3	7188.2	8372.7	10464.8	12627.7	15034.2	19761.8	26954.2	27747.3
62.5°	3772.1	3653.4	4250.9	5356.3	7887.7	11316.3	15404.8	21262.7	29115.0	29947.7
65°	2929.0	2895.7	2947.7	3033.1	4390.4	8472.6	14261.9	22726.2	31862.9	32445.7
67.5°	2679.2	2654.2	2677.1	2516.8	2227.4	4719.3	11282.9	23096.7	34806.4	35160.3
70°	2381.5	2352.3	2427.3	2289.9	1752.8	2146.3	7290.2	21751.9	37148.4	37812.4
72.5°	1940.2	1906.9	2081.7	2019.3	1475.9	1378.1	3661.8	18556.5	36902.7	38280.8
75°	1490.5	1471.8	1680.0	1732.0	1203.2	1084.6	1757.0	13793.5	32474.9	33863.4
77.5°	1157.4	1142.9	1249.0	1438.5	970.1	841.0	1080.4	8749.5	24472.7	24716.3
80°	868.1	826.4	924.3	1113.7	755.7	614.1	732.8	5102.3	15469.3	14022.5
82.5°	543.3	522.5	603.7	743.2	532.9	422.6	476.7	2818.7	6199.4	3651.3
85°	310.2	301.8	328.9	424.7	289.4	243.6	272.7	1244.9	1132.5	778.6
87.5°	124.9	120.7	149.9	189.4	106.2	89.5	95.8	299.8	249.8	231.1
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°
7900.1	0°	7900.1	7900.1	7900.1	7900.1	7900.1	7900.1	7900.1	7900.1	7900.1	7900.1
7931.4	2.5°	7923.0	7923.0	7893.9	7848.1	7796.1	7762.7	7708.6	7694.1	7637.8	7621.2
8002.1	5°	8018.8	8002.1	7912.6	7783.6	7606.6	7444.2	7265.2	7152.8	6994.6	6938.4
8141.6	7.5°	8139.5	8093.7	7939.7	7656.6	7286.0	6921.7	6542.9	6255.6	5980.8	5883.0
8256.1	10°	8249.9	8185.3	7923.0	7427.6	6786.4	6155.7	5552.0	5129.4	4808.8	4677.6
8383.1	12.5°	8360.2	8241.5	7812.7	7046.6	6076.6	5221.0	4577.7	4248.8	4051.0	3892.8
8487.2	15°	8464.3	8297.8	7642.0	6536.6	5298.0	4429.9	3955.3	3693.0	3534.8	3430.7
8639.2	17.5°	8585.0	8345.6	7386.0	5889.2	4556.9	3882.4	3495.2	3337.0	3305.8	3293.3
8847.3	20°	8753.6	8389.3	7048.7	5164.8	4011.5	3445.3	3245.4	3230.8	3228.8	3222.5
9097.1	22.5°	8934.8	8441.4	6603.2	4506.9	3547.3	3172.5	3137.2	3108.0	3089.3	3087.2
9399.0	25°	9149.2	8458.0	6045.3	3967.8	3151.7	3043.5	3001.8	2958.1	2945.6	2945.6
9742.5	27.5°	9357.3	8401.8	5395.8	3499.4	2929.0	2924.8	2870.7	2856.1	2854.0	2860.3
10133.8	30°	9565.5	8295.7	4750.5	3066.4	2799.9	2799.9	2781.2	2791.6	2799.9	2820.7
10670.9	32.5°	9846.6	8183.3	4211.3	2745.8	2687.5	2666.7	2685.4	2706.2	2714.6	2741.6
11376.6	35°	10258.7	8104.2	3782.5	2570.9	2570.9	2543.9	2554.3	2550.1	2531.4	2518.9
12230.1	37.5°	10804.1	8100.0	3428.6	2489.7	2473.1	2468.9	2471.0	2443.9	2371.1	2283.7
13262.7	40°	11459.9	8212.4	3155.9	2433.5	2421.0	2446.0	2433.5	2360.7	2160.8	2008.9
14532.5	42.5°	12340.5	8533.0	2981.0	2364.8	2402.3	2433.5	2383.6	2131.7	1996.4	1894.4
15979.3	45°	13377.2	9053.4	2891.5	2292.0	2366.9	2404.4	2162.9	2052.6	1944.3	1821.5
17557.3	47.5°	14551.2	9709.2	2870.7	2223.3	2287.8	2310.7	2069.2	2019.3	1896.5	1763.2
19143.5	50°	15829.4	10485.6	2926.9	2142.1	2173.3	2094.2	2038.0	1992.2	1865.2	1734.1
20769.4	52.5°	17151.3	11341.2	3039.3	2031.8	2058.8	1971.4	2025.5	1986.0	1846.5	1669.5
22449.3	55°	18450.3	12203.1	3147.6	1902.7	1942.2	1861.1	1990.1	1961.0	1761.1	1561.3
24241.7	57.5°	19770.1	13060.7	3253.7	1788.2	1829.8	1754.9	1933.9	1894.4	1665.4	1461.4
26198.5	60°	21142.0	13893.4	3303.7	1677.9	1707.0	1657.1	1848.6	1779.9	1557.1	1359.4
28122.0	62.5°	22426.4	14586.6	3222.5	1567.5	1586.3	1565.5	1736.2	1644.6	1448.9	1244.9
30126.7	65°	23715.0	14998.8	2972.7	1459.3	1463.5	1453.0	1577.9	1498.8	1321.9	1144.9
31881.6	67.5°	24882.8	15229.9	2575.1	1342.7	1332.3	1328.1	1430.1	1340.6	1199.1	1045.0
33216.0	70°	25130.6	14642.8	1967.2	1205.3	1205.3	1194.9	1267.8	1176.2	1063.8	938.9
32260.5	72.5°	22953.1	12317.6	1396.8	1049.2	1065.8	1045.0	1105.4	1028.4	926.4	843.1
27803.5	75°	18508.6	9032.6	1015.9	888.9	918.0	882.7	938.9	884.7	797.3	795.2
19160.2	77.5°	12717.3	5585.3	736.9	732.8	753.6	707.8	772.3	743.2	664.1	628.7
8339.4	80°	5427.1	2227.4	537.1	566.2	566.2	524.6	599.5	607.9	539.2	522.5
1609.2	82.5°	1080.4	632.8	376.8	389.3	366.4	353.9	424.7	470.5	649.5	722.4
485.0	85°	324.7	233.2	226.9	212.3	187.4	189.4	249.8	472.6	582.9	333.1
160.3	87.5°	89.5	58.3	60.4	47.9	39.6	52.0	85.4	358.1	195.7	83.3
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>
7900.1
7648.3
6980.0
5895.4
4706.8
3944.9
3449.4
3301.6
3243.3
3110.1
2958.1
2876.9
2835.3
2764.5
2548.0
2285.7
2004.7
1890.2
1813.2
1752.8
1719.5
1657.1
1550.9
1457.2
1353.1
1242.8
1132.5
1032.5
934.7
<i>818.1</i>
716.1
589.1
522.5
724.4
287.3
70.8
0.0

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