

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: P955882

Luminaire Tested: **GALN-SB8C-950-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955882
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-SB8C-950-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41872 lumens
Efficiency: N/A
Efficacy: 104.7 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

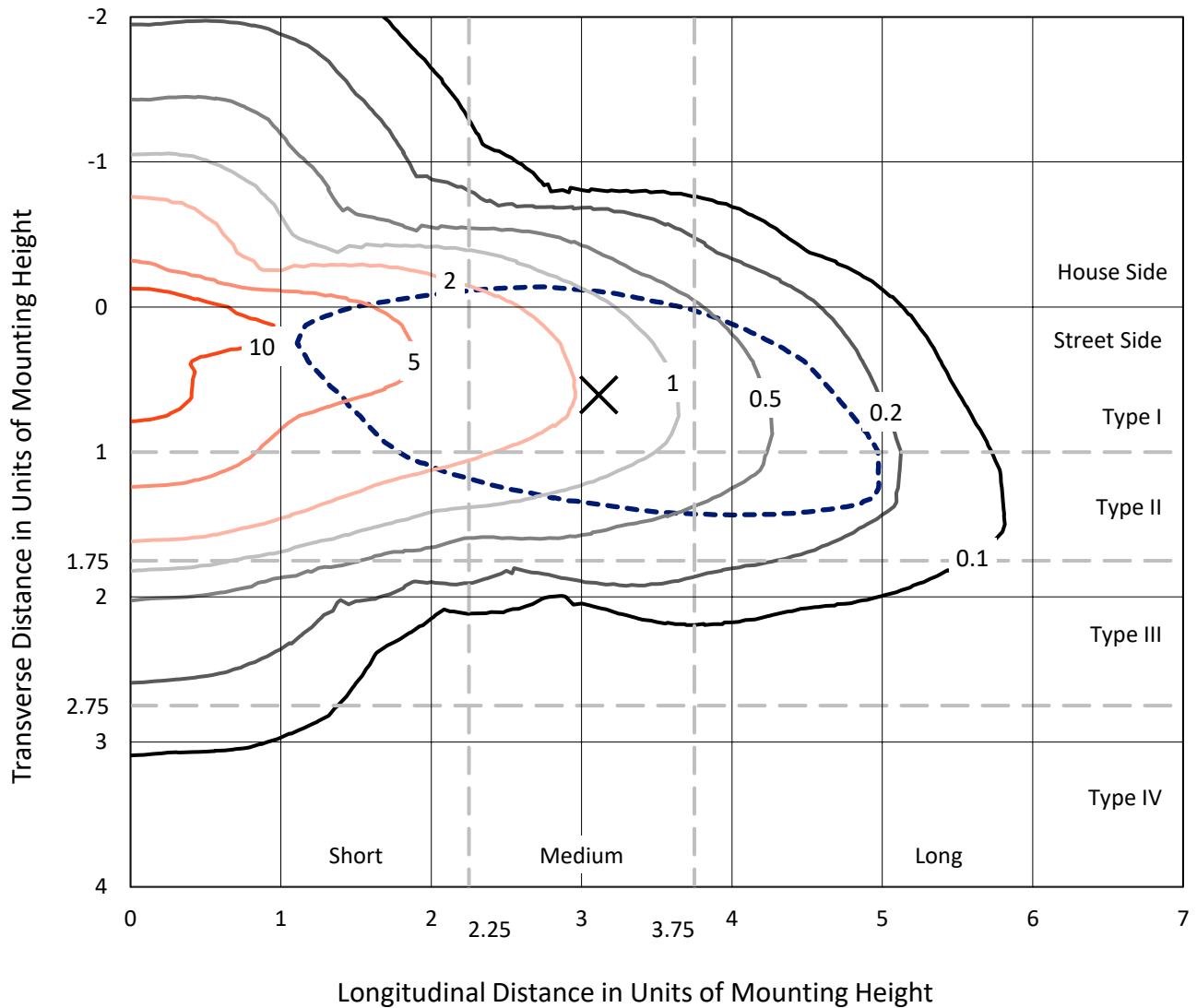
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

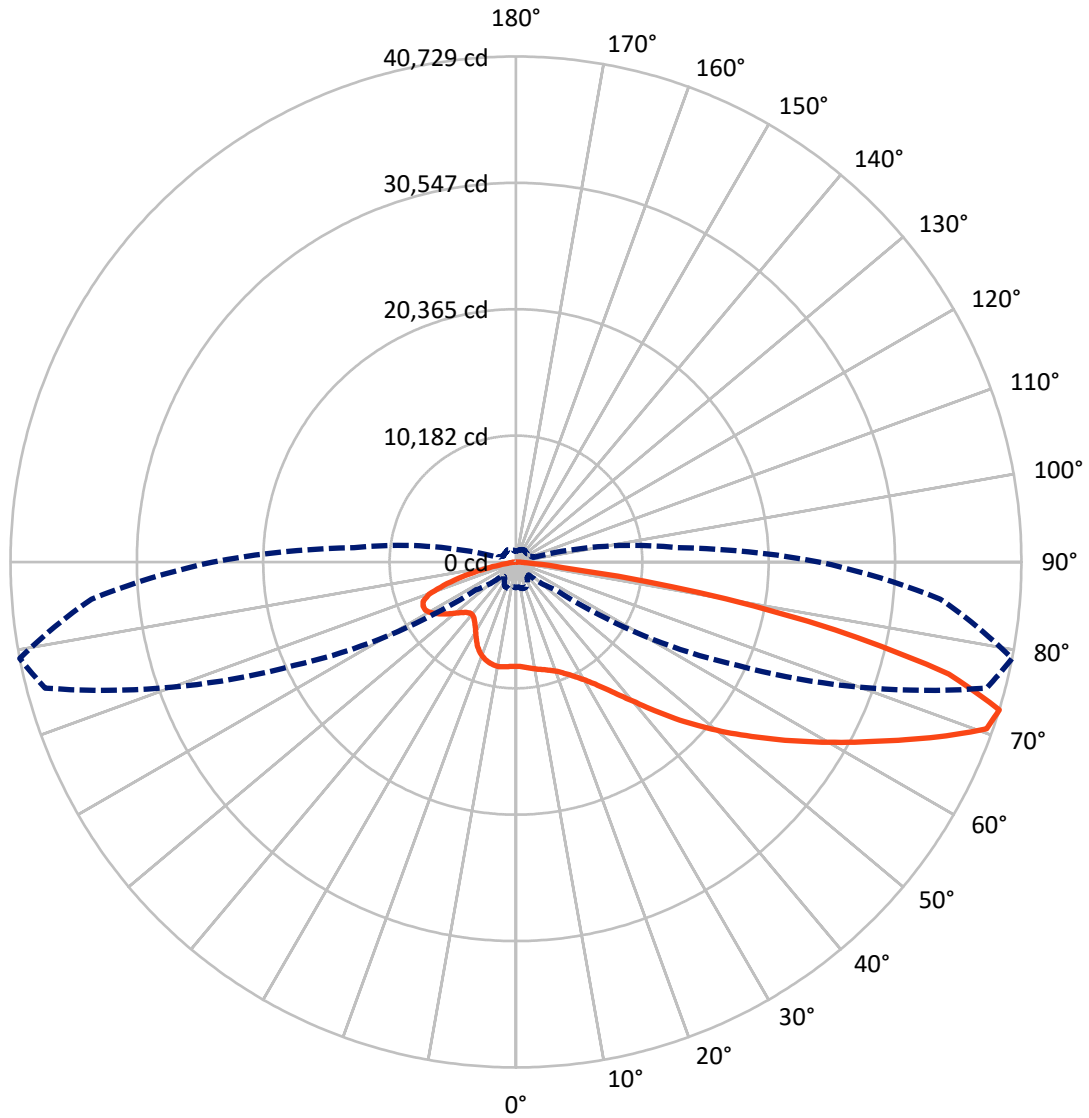
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	9214.1	0.0	9214.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	32657.9	0.0	32657.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	41872.0	0.0	41872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	763.0	1.8
10°-20°	1994.8	4.8
20°-30°	3218.8	7.7
30°-40°	4830.9	11.5
40°-50°	6852.9	16.4
50°-60°	8654.3	20.7
60°-70°	8789.6	21.0
70°-80°	5990.5	14.3
80°-90°	777.2	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°	41872.0	100.0
0°-180°	41872.0	100.0

Coefficient of Utilization



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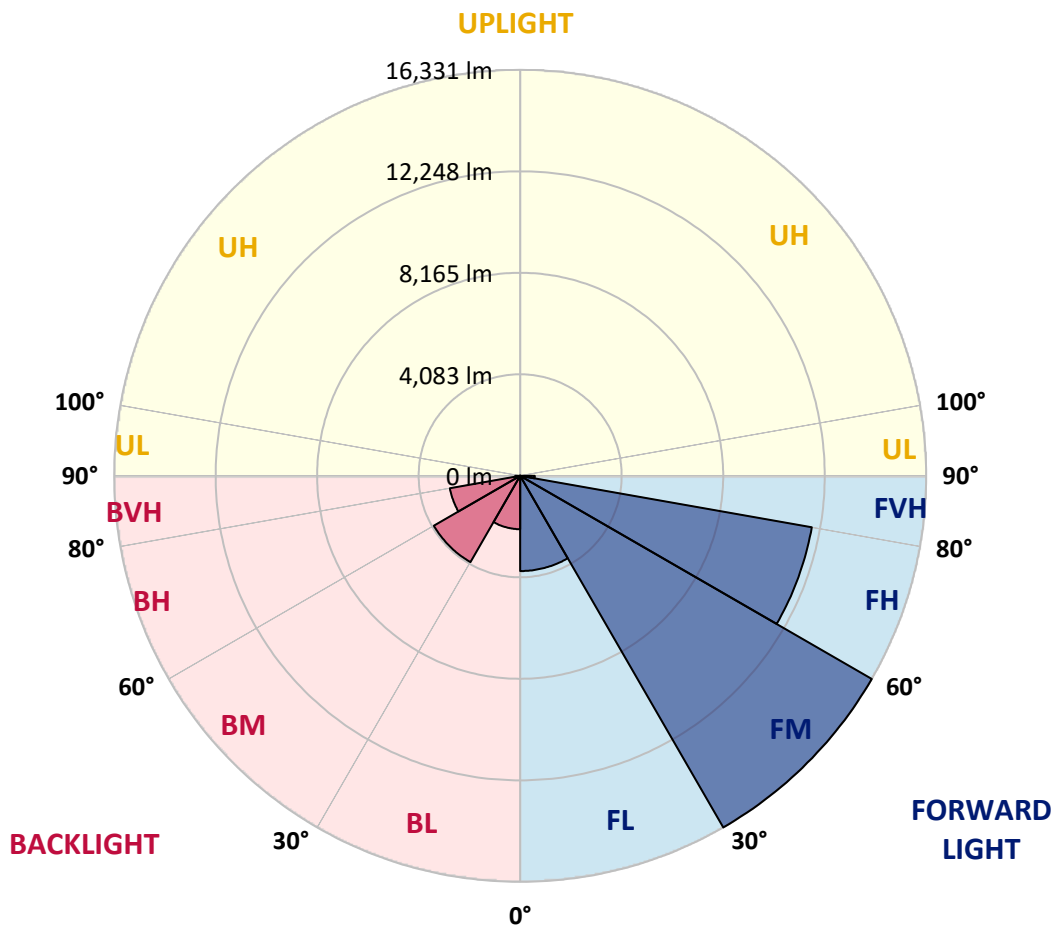
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3830.3	9.1			
FM (30°-60°)	16330.9	39.0			
FH (60°-80°)	11911.2	28.4			G4/12000
FVH (80°-90°)	585.5	1.4			G4/750
BL (0°-30°)	2146.2	5.1	B3/2500		
BM (30°-60°)	4007.2	9.6	B3/5000		
BH (60°-80°)	2869.0	6.9	B4/5000		G4/5000
BVH (80°-90°)	191.7	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°	8405.4	8405.4	8405.4	8405.4	8405.4	8405.4	8405.4	8405.4	8405.4	8405.4
2.5°	8409.8	8370.0	8394.3	8385.5	8396.5	8409.8	8414.3	8420.9	8443.1	8440.8
5°	8392.1	8352.2	8385.5	8374.4	8403.2	8434.2	8460.8	8485.1	8520.6	8536.1
7.5°	8354.5	8327.9	8361.1	8394.3	8447.5	8494.0	8531.7	8587.0	8638.0	8646.8
10°	8135.2	8115.3	8192.8	8279.2	8425.3	8551.6	8633.5	8697.8	8753.1	8762.0
12.5°	7907.1	7882.7	7969.1	8086.5	8323.5	8551.6	8724.3	8808.5	8857.2	8886.0
15°	7869.4	7849.5	7898.2	8000.1	8197.2	8491.8	8786.4	8941.4	8983.5	9016.7
17.5°	8051.0	8013.4	8033.3	8068.7	8183.9	8436.4	8835.1	9092.0	9156.2	9191.7
20°	8471.9	8418.7	8387.7	8316.8	8296.9	8445.3	8830.7	9273.6	9357.8	9402.1
22.5°	9032.2	8996.8	8930.3	8750.9	8556.0	8553.8	8914.8	9506.2	9663.4	9705.5
25°	9710.0	9656.8	9572.6	9329.0	8954.7	8768.6	9056.6	9803.0	10066.6	10077.6
27.5°	10489.6	10409.9	10294.7	9973.5	9468.5	9105.3	9273.6	10144.1	10529.5	10525.0
30°	11311.3	11231.6	11109.8	10719.9	10084.3	9559.3	9574.9	10511.7	11078.7	11054.4
32.5°	11911.5	11851.7	11827.4	11526.1	10793.0	10095.3	9920.4	10919.3	11756.5	11734.3
35°	12372.2	12294.7	12323.5	12170.7	11566.0	10695.6	10343.4	11404.3	12580.4	12578.2
37.5°	12828.5	12759.8	12784.2	12682.3	12281.4	11457.5	10859.5	11997.9	13601.5	13650.2
40°	13244.9	13171.8	13269.2	13174.0	12837.3	12268.1	11446.4	12669.0	14784.2	14877.2
42.5°	13495.2	13437.6	13599.3	13601.5	13320.2	12952.5	12090.9	13408.8	16153.0	16361.2
45°	13581.5	13561.6	13805.2	13856.2	13747.7	13349.0	12671.2	14215.0	17628.1	18000.2
47.5°	13488.5	13450.9	13787.5	13975.8	14062.2	13535.0	13151.9	15087.6	19134.2	19679.1
50°	13019.0	12945.9	13446.4	13842.9	14150.8	13656.8	13636.9	16095.4	20846.3	21442.1
52.5°	12175.1	12119.7	12689.0	13377.8	13955.9	13716.6	14181.8	17196.2	22472.0	23242.8
55°	11096.5	11023.4	11650.2	12549.4	13470.8	13696.7	14726.6	18427.7	24390.1	25171.9
57.5°	9386.6	9240.4	10033.3	11096.5	12680.1	13672.4	15293.6	19652.5	26339.2	27276.0
60°	6892.7	6675.6	7647.9	8908.2	11134.1	13435.4	15995.7	21025.7	28678.0	29521.9
62.5°	4013.3	3887.1	4522.8	5698.8	8392.1	12040.0	16390.0	22622.6	30977.1	31863.0
65°	3116.3	3080.9	3136.2	3227.1	4671.1	9014.5	15174.0	24179.7	33900.7	34520.9
67.5°	2850.5	2824.0	2848.3	2677.8	2369.9	5021.1	12004.6	24573.9	37032.5	37409.0
70°	2533.8	2502.8	2582.5	2436.3	1864.9	2283.5	7756.5	23143.1	39524.2	40230.8
72.5°	2064.3	2028.8	2214.9	2148.4	1570.3	1466.2	3895.9	19743.3	39262.9	40729.1
75°	1585.8	1565.9	1787.4	1842.8	1280.2	1153.9	1869.3	14675.7	34551.9	36029.2
77.5°	1231.5	1216.0	1328.9	1530.5	1032.1	894.8	1149.5	9309.1	26037.9	26297.1
80°	923.6	879.3	983.4	1185.0	804.0	653.4	779.6	5428.6	16458.6	14919.3
82.5°	578.1	555.9	642.3	790.7	567.0	449.6	507.2	2998.9	6595.9	3884.9
85°	330.0	321.2	349.9	451.8	307.9	259.1	290.1	1324.5	1204.9	828.4
87.5°	132.9	128.5	159.5	201.6	113.0	95.2	101.9	318.9	265.8	245.8
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°
8405.4	0°	8405.4	8405.4	8405.4	8405.4	8405.4	8405.4	8405.4	8405.4	8405.4	8405.4
8438.6	2.5°	8429.8	8429.8	8398.8	8350.0	8294.7	8259.2	8201.6	8186.1	8126.3	8108.6
8513.9	5°	8531.7	8513.9	8418.7	8281.4	8093.1	7920.4	7729.9	7610.3	7441.9	7382.1
8662.3	7.5°	8660.1	8611.4	8447.5	8146.3	7752.0	7364.4	6961.3	6655.7	6363.3	6259.2
8784.1	10°	8777.5	8708.8	8429.8	7902.6	7220.5	6549.4	5907.0	5457.4	5116.3	4976.8
8919.3	12.5°	8894.9	8768.6	8312.4	7497.3	6465.2	5554.9	4870.5	4520.5	4310.1	4141.8
9030.0	15°	9005.6	8828.4	8130.8	6954.7	5636.8	4713.2	4208.2	3929.2	3760.8	3650.1
9191.7	17.5°	9134.1	8879.4	7858.3	6265.8	4848.3	4130.7	3718.8	3550.4	3517.2	3503.9
9413.2	20°	9313.5	8925.9	7499.5	5495.1	4268.0	3665.6	3453.0	3437.5	3435.3	3428.6
9679.0	22.5°	9506.2	8981.3	7025.5	4795.2	3774.1	3375.5	3337.8	3306.8	3286.9	3284.6
10000.1	25°	9734.3	8999.0	6432.0	4221.5	3353.3	3238.1	3193.8	3147.3	3134.0	3134.0
10365.6	27.5°	9955.8	8939.2	5740.9	3723.2	3116.3	3111.9	3054.3	3038.8	3036.6	3043.2
10782.0	30°	10177.3	8826.2	5054.3	3262.5	2979.0	2979.0	2959.1	2970.1	2979.0	3001.1
11353.4	32.5°	10476.3	8706.6	4480.7	2921.4	2859.4	2837.2	2857.2	2879.3	2888.2	2917.0
12104.2	35°	10914.8	8622.5	4024.4	2735.4	2735.4	2706.6	2717.6	2713.2	2693.3	2680.0
13012.3	37.5°	11495.1	8618.0	3647.9	2649.0	2631.3	2626.8	2629.0	2600.2	2522.7	2429.7
14110.9	40°	12192.8	8737.6	3357.7	2589.2	2575.9	2602.5	2589.2	2511.7	2299.0	2137.3
15462.0	42.5°	13129.7	9078.7	3171.7	2516.1	2556.0	2589.2	2536.0	2268.0	2124.1	2015.5
17001.3	45°	14232.7	9632.4	3076.4	2438.6	2518.3	2558.2	2301.2	2183.9	2068.7	1938.0
18680.2	47.5°	15481.9	10330.1	3054.3	2365.5	2434.1	2458.5	2201.6	2148.4	2017.7	1876.0
20367.9	50°	16841.8	11156.3	3114.1	2279.1	2312.3	2228.2	2168.4	2119.6	1984.5	1845.0
22097.7	52.5°	18248.3	12066.6	3233.7	2161.7	2190.5	2097.5	2155.1	2113.0	1964.6	1776.3
23885.1	55°	19630.3	12983.5	3348.9	2024.4	2066.5	1980.1	2117.4	2086.4	1873.8	1661.1
25792.1	57.5°	21034.6	13896.1	3461.8	1902.6	1946.9	1867.1	2057.6	2015.5	1771.9	1554.8
27874.1	60°	22494.2	14782.0	3515.0	1785.2	1816.2	1763.0	1966.8	1893.7	1656.7	1446.3
29920.6	62.5°	23860.7	15519.5	3428.6	1667.8	1687.7	1665.6	1847.2	1749.7	1541.5	1324.5
32053.5	65°	25231.7	15958.1	3162.8	1552.6	1557.0	1546.0	1678.9	1594.7	1406.4	1218.2
33920.6	67.5°	26474.3	16203.9	2739.8	1428.6	1417.5	1413.1	1521.6	1426.4	1275.8	1111.9
35340.4	70°	26737.8	15579.3	2093.0	1282.4	1282.4	1271.3	1348.9	1251.4	1131.8	998.9
34323.7	72.5°	24421.1	13105.3	1486.2	1116.3	1134.0	1111.9	1176.1	1094.1	985.6	897.0
29581.7	75°	19692.3	9610.3	1080.9	945.7	976.8	939.1	998.9	941.3	848.3	846.1
20385.6	77.5°	13530.6	5942.5	784.1	779.6	801.8	753.1	821.7	790.7	706.5	668.9
8872.7	80°	5774.1	2369.9	571.4	602.4	602.4	558.1	637.9	646.7	573.6	555.9
1712.1	82.5°	1149.5	673.3	400.9	414.2	389.8	376.5	451.8	500.6	691.0	768.6
516.1	85°	345.5	248.1	241.4	225.9	199.3	201.6	265.8	502.8	620.2	354.4
170.5	87.5°	95.2	62.0	64.2	50.9	42.1	55.4	90.8	381.0	208.2	88.6
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>
8405.4
8137.4
7426.4
6272.5
5007.8
4197.2
3670.0
3512.8
3450.8
3309.0
3147.3
3060.9
3016.6
2941.3
2711.0
2431.9
2132.9
2011.1
1929.1
1864.9
1829.5
1763.0
1650.1
1550.4
1439.7
1322.3
1204.9
1098.6
994.5
870.4
761.9
626.8
555.9
770.8
305.7
75.3
0.0

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