

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: P955000

Luminaire Tested: **GALN-SB8A-830-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955000  
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-SB8A-830-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

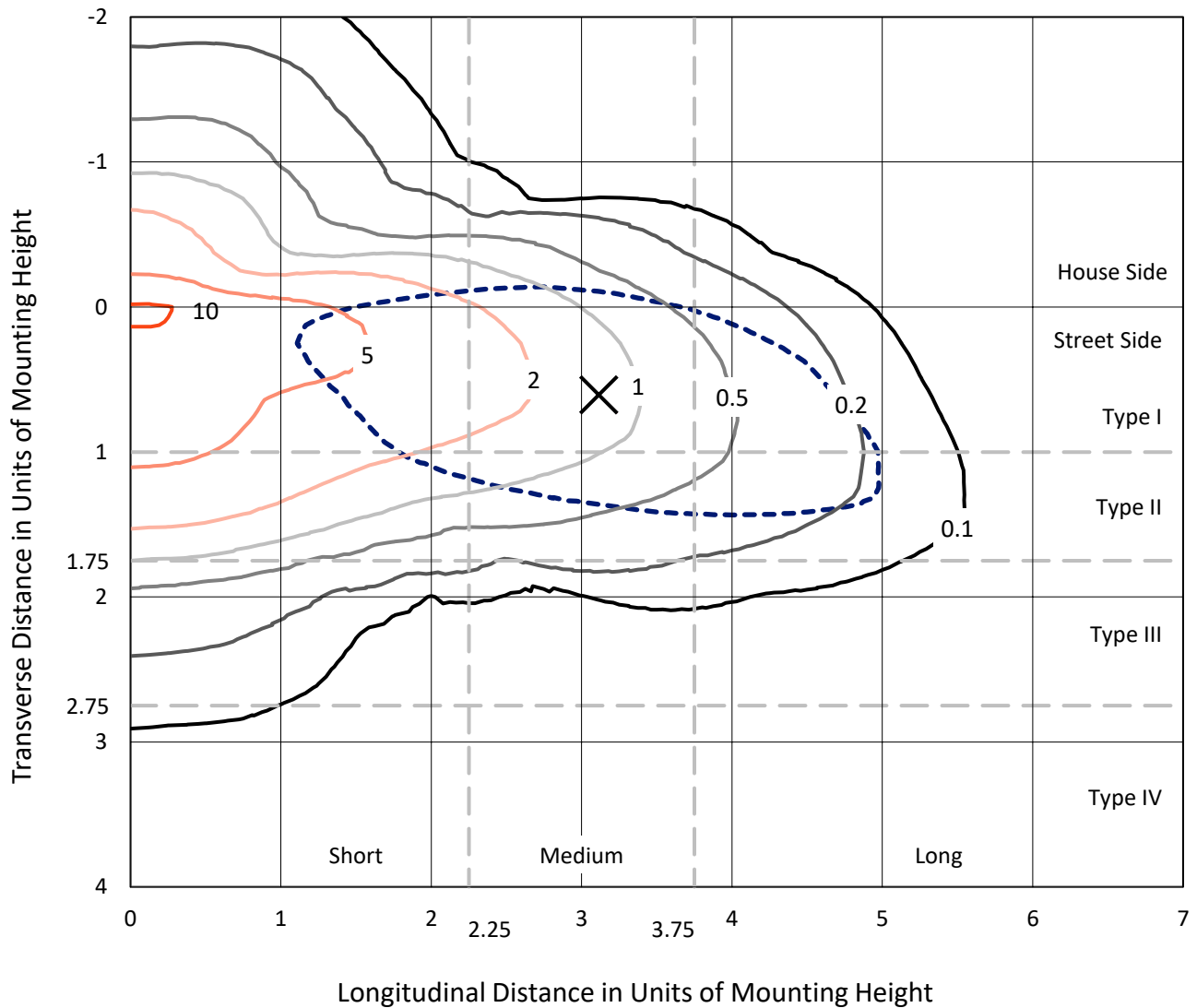
Lumens per Lamp: N/A  
Luminaire Lumens: 32396 lumens  
Efficiency: N/A  
Efficacy: 142.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

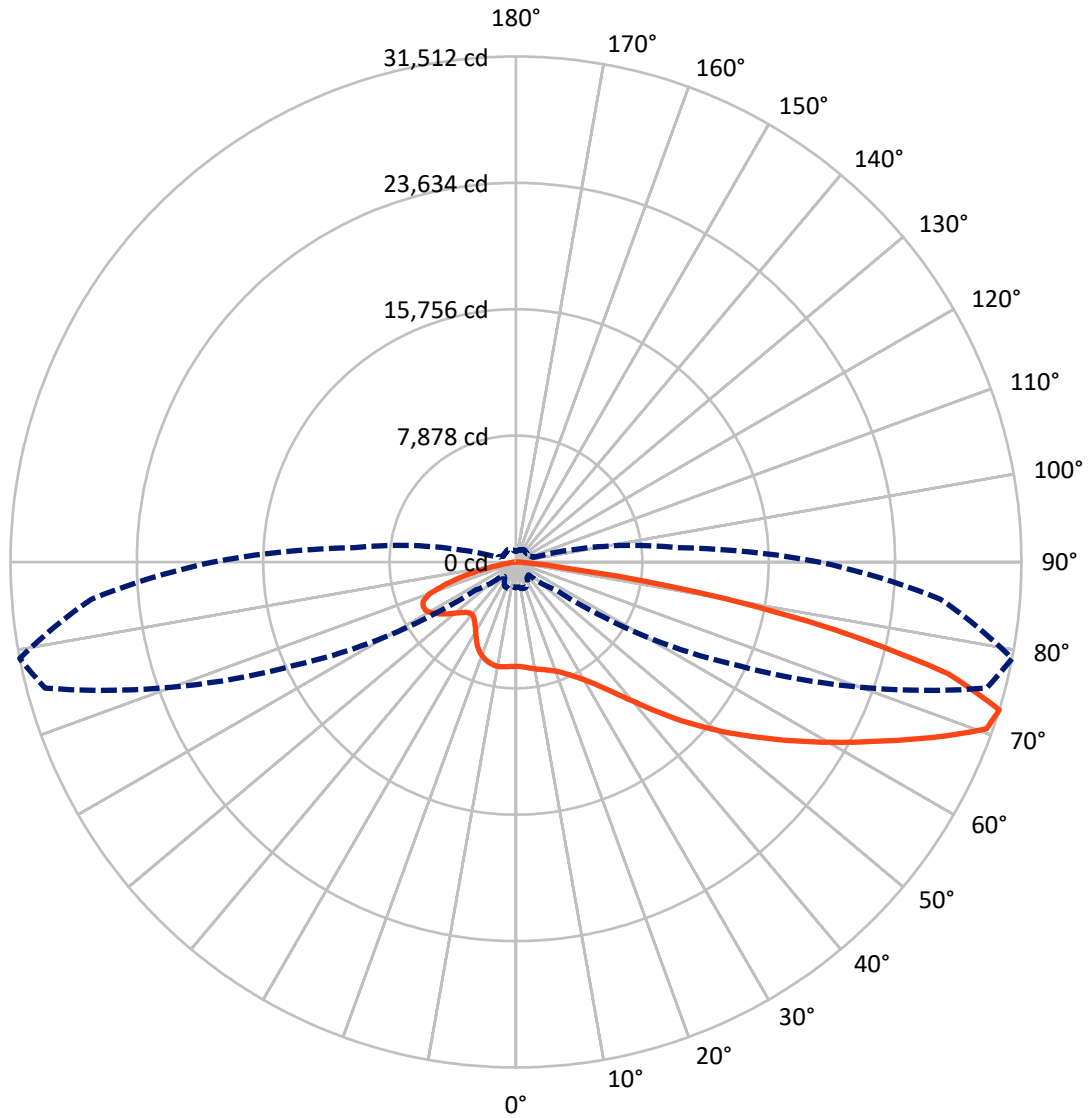
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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
<b>House Side</b>	Lumens	7128.9	0.0	7128.9
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	25267.1	0.0	25267.1
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	32396.0	0.0	32396.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	590.3	1.8
10°-20°	1543.3	4.8
20°-30°	2490.3	7.7
30°-40°	3737.6	11.5
40°-50°	5302.0	16.4
50°-60°	6695.8	20.7
60°-70°	6800.5	21.0
70°-80°	4634.8	14.3
80°-90°	601.3	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°	32396.0	100.0
0°-180°	32396.0	100.0



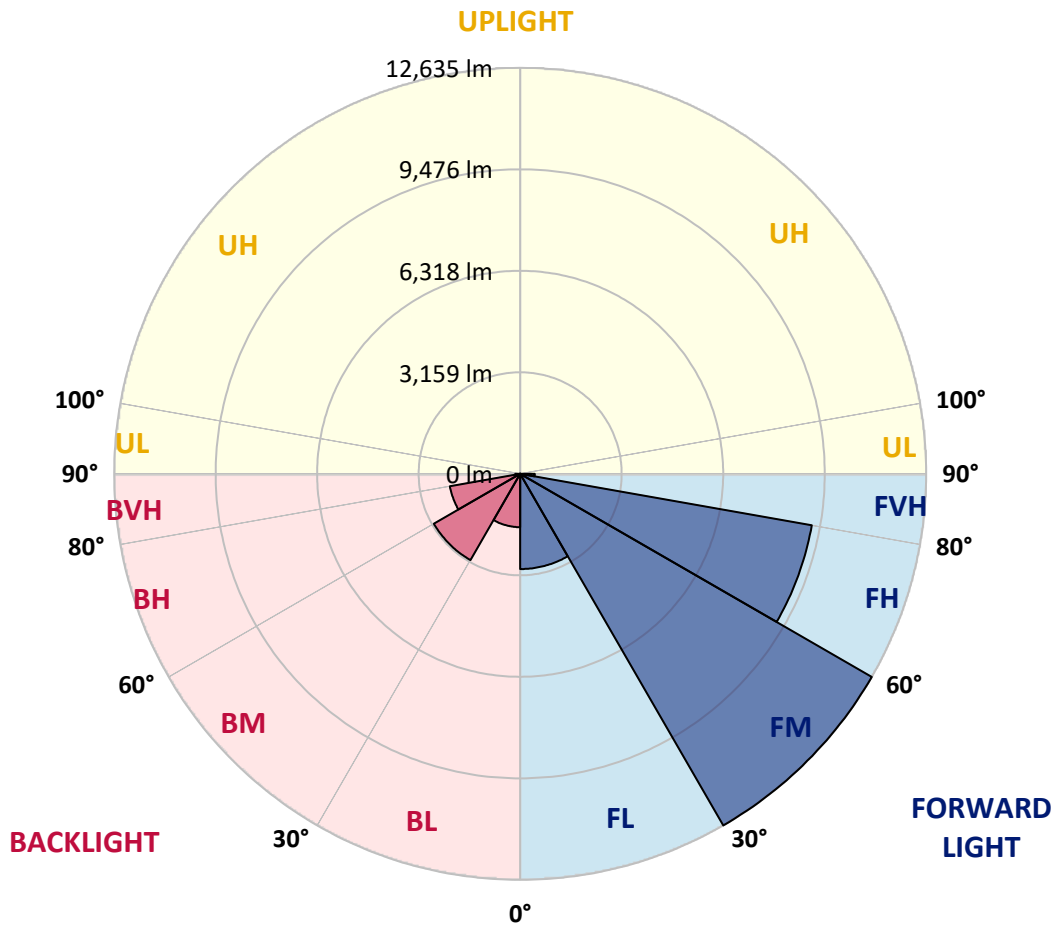
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2963.4	9.1			
FM (30°-60°)	12635.1	39.0			
FH (60°-80°)	9215.6	28.4			G4/12000
FVH (80°-90°)	453.0	1.4			G3/500
BL (0°-30°)	1660.5	5.1	B3/2500		
BM (30°-60°)	3100.3	9.6	B3/5000		
BH (60°-80°)	2219.7	6.9	B3/2500		G3/2500
BVH (80°-90°)	148.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2
2.5°	6506.6	6475.8	6494.6	6487.8	6496.3	6506.6	6510.0	6515.2	6532.3	6530.6
5°	6492.9	6462.1	6487.8	6479.2	6501.5	6525.5	6546.0	6564.9	6592.3	6604.3
7.5°	6463.8	6443.2	6468.9	6494.6	6535.7	6571.7	6600.9	6643.7	6683.1	6690.0
10°	6294.1	6278.7	6338.7	6405.5	6518.6	6616.3	6679.7	6729.4	6772.2	6779.1
12.5°	6117.6	6098.8	6165.6	6256.4	6439.8	6616.3	6750.0	6815.1	6852.8	6875.0
15°	6088.5	6073.1	6110.8	6189.6	6342.1	6570.0	6797.9	6917.9	6950.4	6976.1
17.5°	6229.0	6199.9	6215.3	6242.7	6331.8	6527.2	6835.6	7034.4	7084.1	7111.5
20°	6554.6	6513.5	6489.5	6434.6	6419.2	6534.0	6832.2	7174.9	7240.0	7274.3
22.5°	6988.1	6960.7	6909.3	6770.5	6619.7	6618.0	6897.3	7354.9	7476.5	7509.1
25°	7512.5	7471.4	7406.3	7217.8	6928.2	6784.2	7007.0	7584.5	7788.4	7797.0
27.5°	8115.7	8054.0	7964.9	7716.4	7325.7	7044.7	7174.9	7848.4	8146.6	8143.1
30°	8751.5	8689.8	8595.5	8293.9	7802.1	7396.0	7408.0	8132.8	8571.5	8552.7
32.5°	9215.8	9169.6	9150.7	8917.7	8350.5	7810.7	7675.3	8448.1	9095.9	9078.8
35°	9572.3	9512.3	9534.6	9416.3	8948.5	8275.1	8002.6	8823.4	9733.4	9731.6
37.5°	9925.3	9872.2	9891.0	9812.2	9502.0	8864.6	8401.9	9282.7	10523.3	10561.0
40°	10247.4	10190.9	10266.3	10192.6	9932.1	9491.7	8856.0	9801.9	11438.4	11510.4
42.5°	10441.1	10396.5	10521.6	10523.3	10305.7	10021.3	9354.7	10374.3	12497.4	12658.5
45°	10507.9	10492.5	10681.0	10720.4	10636.4	10328.0	9803.6	10998.0	13638.7	13926.6
47.5°	10435.9	10406.8	10667.3	10812.9	10879.8	10471.9	10175.5	11673.2	14804.0	15225.5
50°	10072.7	10016.1	10403.4	10710.1	10948.3	10566.2	10550.8	12452.9	16128.6	16589.6
52.5°	9419.8	9376.9	9817.3	10350.3	10797.5	10612.5	10972.3	13304.5	17386.4	17982.7
55°	8585.2	8528.7	9013.6	9709.4	10422.2	10597.0	11393.9	14257.3	18870.4	19475.3
57.5°	7262.3	7149.2	7762.7	8585.2	9810.5	10578.2	11832.5	15205.0	20378.4	21103.2
60°	5332.8	5164.9	5917.1	6892.2	8614.4	10394.8	12375.8	16267.4	22188.0	22840.8
62.5°	3105.1	3007.4	3499.2	4409.1	6492.9	9315.2	12680.8	17502.9	23966.7	24652.1
65°	2411.1	2383.6	2426.5	2496.7	3614.0	6974.4	11740.0	18707.6	26228.7	26708.5
67.5°	2205.4	2184.9	2203.7	2071.8	1833.6	3884.8	9287.8	19012.6	28651.7	28943.0
70°	1960.4	1936.4	1998.1	1885.0	1442.9	1766.7	6001.1	17905.6	30579.6	31126.2
72.5°	1597.1	1569.7	1713.6	1662.2	1215.0	1134.4	3014.3	15275.2	30377.3	31511.8
75°	1227.0	1211.5	1382.9	1425.7	990.5	892.8	1446.3	11354.4	26732.5	27875.5
77.5°	952.8	940.8	1028.2	1184.1	798.5	692.3	889.4	7202.3	20145.3	20345.8
80°	714.6	680.3	760.8	916.8	622.0	505.5	603.2	4200.1	12733.9	11542.9
82.5°	447.3	430.1	496.9	611.8	438.7	347.9	392.4	2320.2	5103.2	3005.7
85°	255.3	248.5	270.8	349.6	238.2	200.5	224.5	1024.7	932.2	640.9
87.5°	102.8	99.4	123.4	155.9	87.4	73.7	78.8	246.8	205.6	190.2
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°
6503.2	0°	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2	6503.2
6528.9	2.5°	6522.0	6522.0	6498.0	6460.3	6417.5	6390.1	6345.5	6333.5	6287.3	6273.6
6587.2	5°	6600.9	6587.2	6513.5	6407.2	6261.6	6127.9	5980.5	5888.0	5757.8	5711.5
6702.0	7.5°	6700.3	6662.6	6535.7	6302.7	5997.7	5697.8	5385.9	5149.4	4923.2	4842.7
6796.2	10°	6791.1	6738.0	6522.0	6114.2	5586.4	5067.2	4570.2	4222.4	3958.5	3850.5
6900.7	12.5°	6881.9	6784.2	6431.2	5800.6	5002.1	4297.8	3768.3	3497.5	3334.7	3204.5
6986.4	15°	6967.6	6830.5	6290.7	5380.8	4361.2	3646.6	3255.9	3040.0	2909.7	2824.0
7111.5	17.5°	7067.0	6869.9	6079.9	4847.8	3751.1	3195.9	2877.2	2746.9	2721.2	2710.9
7282.9	20°	7205.8	6905.9	5802.3	4251.5	3302.1	2836.0	2671.5	2659.5	2657.8	2652.7
7488.5	22.5°	7354.9	6948.7	5435.6	3710.0	2920.0	2611.6	2582.4	2558.4	2543.0	2541.3
7737.0	25°	7531.4	6962.4	4976.4	3266.2	2594.4	2505.3	2471.0	2435.1	2424.8	2424.8
8019.7	27.5°	7702.7	6916.2	4441.7	2880.6	2411.1	2407.6	2363.1	2351.1	2349.4	2354.5
8341.9	30°	7874.1	6828.8	3910.5	2524.2	2304.8	2304.8	2289.4	2298.0	2304.8	2322.0
8784.0	32.5°	8105.4	6736.2	3466.7	2260.3	2212.3	2195.1	2210.6	2227.7	2234.6	2256.8
9364.9	35°	8444.7	6671.1	3113.6	2116.3	2116.3	2094.0	2102.6	2099.2	2083.8	2073.5
10067.5	37.5°	8893.7	6667.7	2822.3	2049.5	2035.8	2032.4	2034.1	2011.8	1951.8	1879.8
10917.5	40°	9433.5	6760.2	2597.8	2003.2	1992.9	2013.5	2003.2	1943.2	1778.7	1653.6
11962.8	42.5°	10158.3	7024.1	2453.9	1946.7	1977.5	2003.2	1962.1	1754.7	1643.4	1559.4
13153.7	45°	11011.7	7452.5	2380.2	1886.7	1948.4	1979.2	1780.5	1689.6	1600.5	1499.4
14452.7	47.5°	11978.2	7992.3	2363.1	1830.1	1883.3	1902.1	1703.3	1662.2	1561.1	1451.4
15758.5	50°	13030.4	8631.5	2409.4	1763.3	1789.0	1723.9	1677.6	1639.9	1535.4	1427.4
17096.8	52.5°	14118.5	9335.8	2501.9	1672.5	1694.8	1622.8	1667.4	1634.8	1520.0	1374.3
18479.7	55°	15187.8	10045.2	2591.0	1566.2	1598.8	1532.0	1638.2	1614.2	1449.7	1285.2
19955.1	57.5°	16274.3	10751.3	2678.4	1472.0	1506.3	1444.6	1592.0	1559.4	1370.9	1203.0
21565.9	60°	17403.5	11436.7	2719.5	1381.2	1405.2	1364.0	1521.7	1465.1	1281.8	1119.0
23149.3	62.5°	18460.8	12007.3	2652.7	1290.4	1305.8	1288.6	1429.2	1353.8	1192.7	1024.7
24799.5	65°	19521.6	12346.6	2447.0	1201.2	1204.7	1196.1	1298.9	1233.8	1088.1	942.5
26244.1	67.5°	20482.9	12536.8	2119.7	1105.3	1096.7	1093.3	1177.3	1103.6	987.0	860.2
27342.5	70°	20686.8	12053.6	1619.4	992.2	992.2	983.6	1043.6	968.2	875.7	772.8
26556.0	72.5°	18894.4	10139.5	1149.8	863.7	877.4	860.2	909.9	846.5	762.6	694.0
22887.1	75°	15235.8	7435.4	836.2	731.7	755.7	726.6	772.8	728.3	656.3	654.6
15772.2	77.5°	10468.5	4597.6	606.6	603.2	620.3	582.6	635.8	611.8	546.6	517.5
6864.8	80°	4467.4	1833.6	442.1	466.1	466.1	431.8	493.5	500.4	443.8	430.1
1324.6	82.5°	889.4	520.9	310.2	320.4	301.6	291.3	349.6	387.3	534.6	594.6
399.3	85°	267.3	191.9	186.8	174.8	154.2	155.9	205.6	389.0	479.8	274.2
131.9	87.5°	73.7	48.0	49.7	39.4	32.6	42.8	70.3	294.7	161.1	68.5
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>
6503.2
6295.8
5745.8
4853.0
3874.5
3247.3
2839.5
2717.8
2669.8
2560.1
2435.1
2368.2
2334.0
2275.7
2097.5
1881.6
1650.2
1556.0
1492.6
1442.9
1415.5
1364.0
1276.6
1199.5
1113.9
1023.0
932.2
850.0
769.4
673.5
589.5
485.0
430.1
596.3
236.5
58.3
0.0

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