

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: P942702

Luminaire Tested: **GALN-SB6D-830-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942702  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB6D-830-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

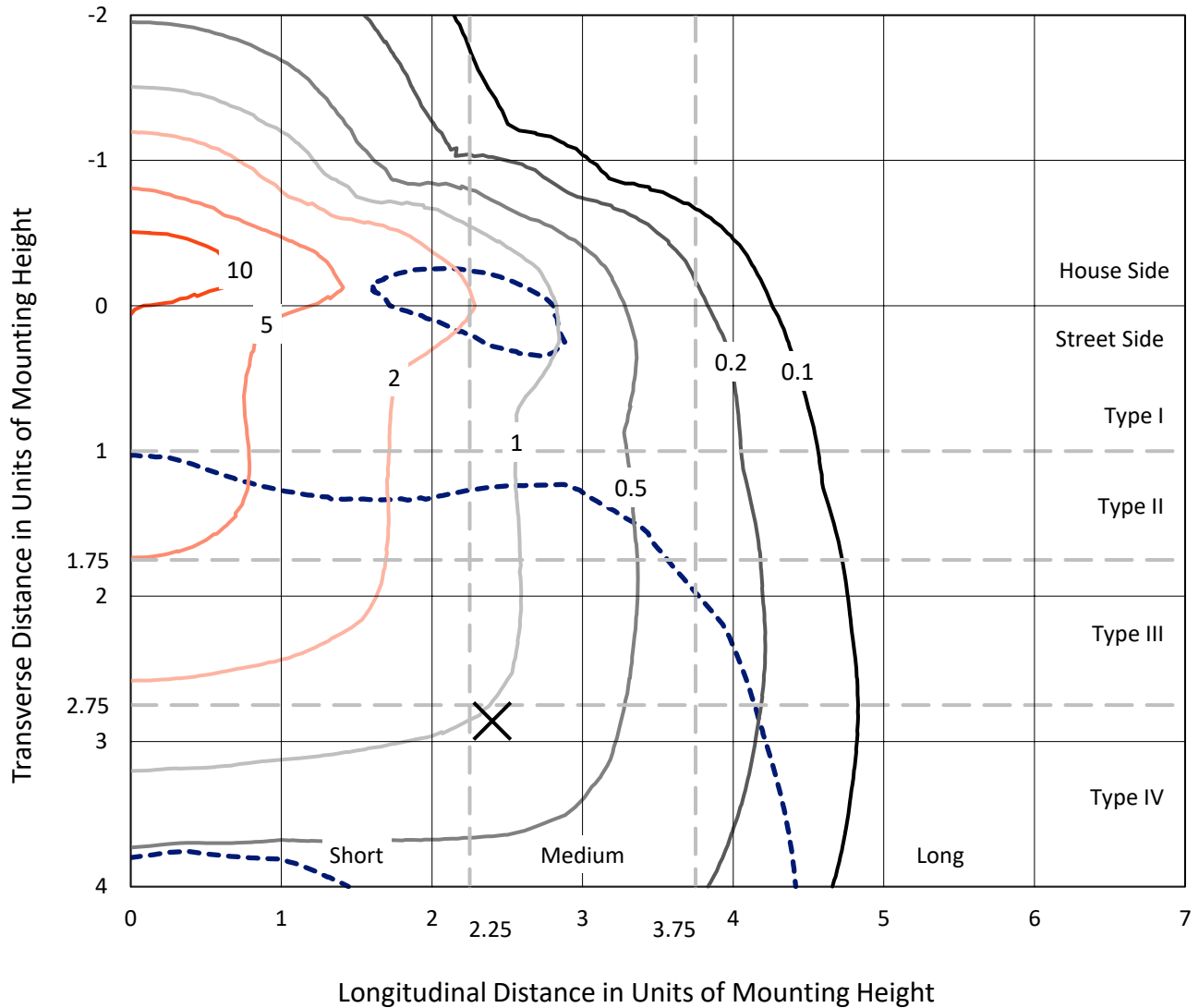
Lumens per Lamp: N/A  
Luminaire Lumens: 54963 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

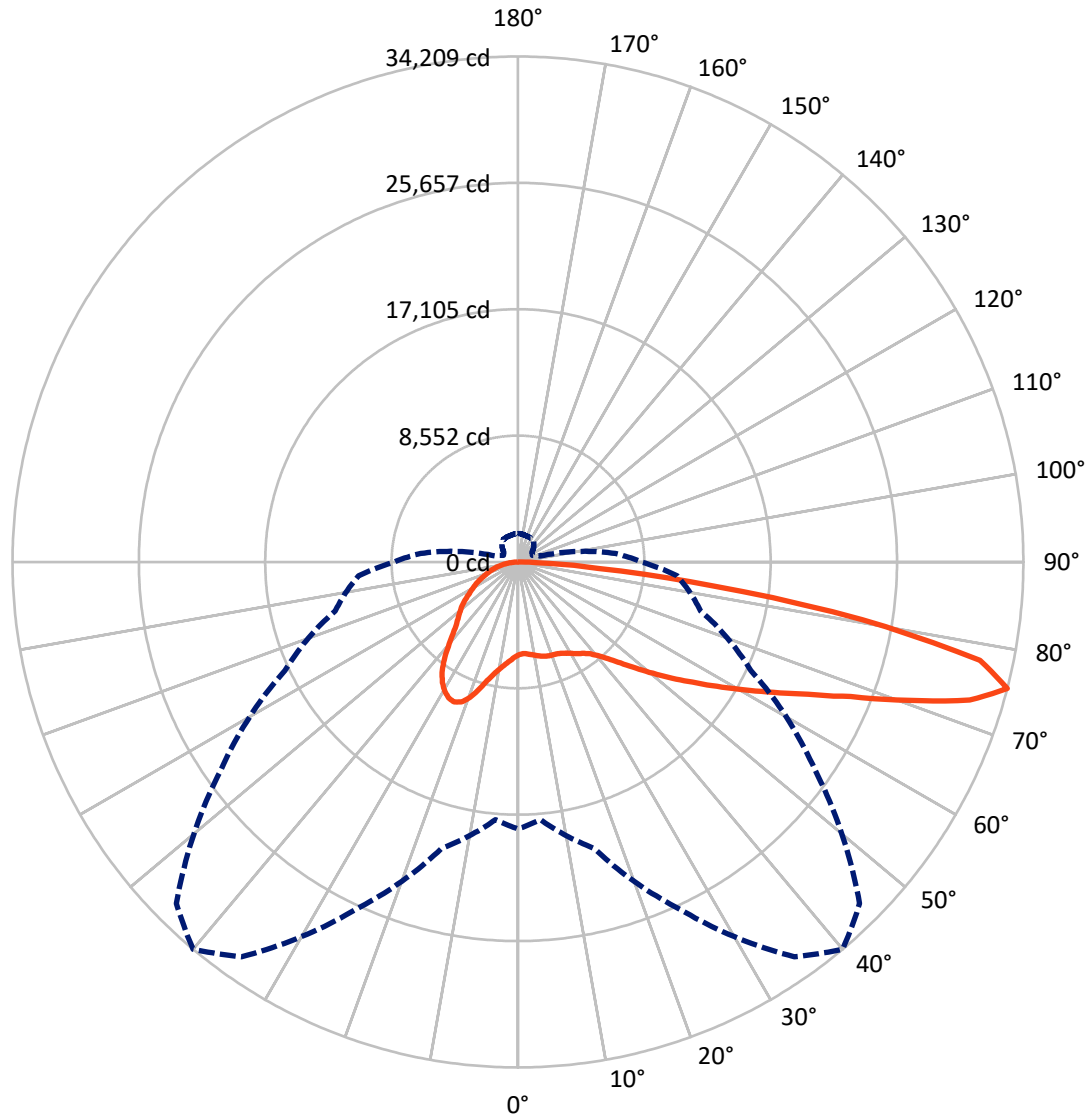
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17029.4	0.0	17029.4
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	37933.6	0.0	37933.6
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	54963.0	0.0	54963.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	627.4	1.1
10°-20°	2106.4	3.8
20°-30°	3846.1	7.0
30°-40°	5454.8	9.9
40°-50°	7365.6	13.4
50°-60°	9908.7	18.0
60°-70°	12576.4	22.9
70°-80°	11413.9	20.8
80°-90°	1663.8	3.0
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°	54963.0	100.0
0°-180°	54963.0	100.0



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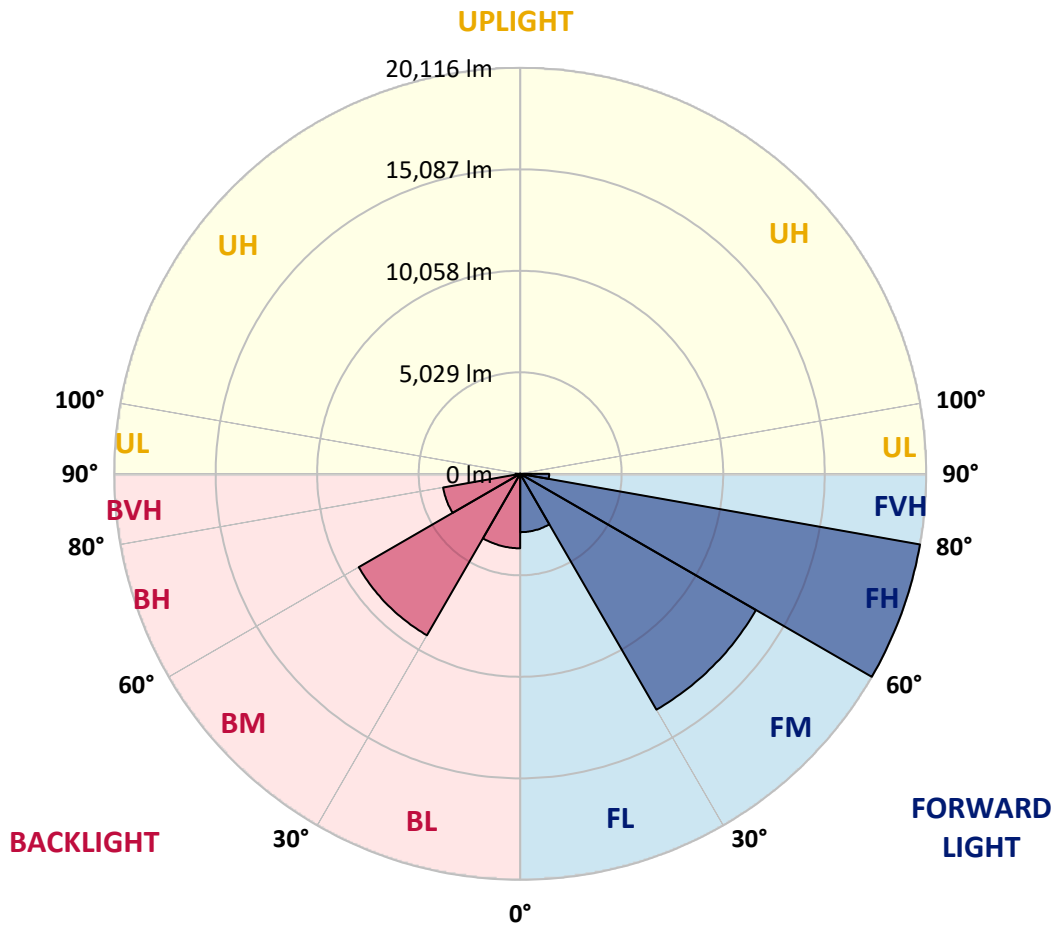
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2891.1	5.3			
FM (30°-60°)	13492.2	24.5			
FH (60°-80°)	20115.6	36.6			G5
FVH (80°-90°)	1434.7	2.6			G5
BL (0°-30°)	3688.7	6.7	B4/5000		
BM (30°-60°)	9236.9	16.8	B5		
BH (60°-80°)	3874.7	7.0	B4/5000		G4/5000
BVH (80°-90°)	229.1	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1
2.5°	6188.9	6223.9	6215.1	6203.5	6203.5	6206.4	6203.5	6223.9	6244.3	6264.7
5°	6253.0	6288.0	6270.5	6255.9	6244.3	6241.4	6232.6	6229.7	6241.4	6267.6
7.5°	6378.4	6413.4	6387.1	6360.9	6337.6	6325.9	6314.2	6296.8	6288.0	6302.6
10°	6518.3	6553.3	6521.2	6474.6	6436.7	6422.1	6410.4	6393.0	6381.3	6390.0
12.5°	6658.2	6693.2	6649.5	6585.4	6535.8	6527.1	6512.5	6506.6	6503.7	6500.8
15°	6789.4	6818.6	6763.2	6687.4	6634.9	6620.3	6605.8	6614.5	6629.1	6646.6
17.5°	6891.4	6920.6	6839.0	6739.9	6690.3	6684.5	6675.7	6704.9	6745.7	6789.4
20°	6984.7	7013.9	6908.9	6774.8	6716.5	6716.5	6719.5	6780.7	6839.0	6903.1
22.5°	7115.9	7139.2	7011.0	6827.3	6742.8	6748.6	6771.9	6833.1	6906.0	6993.5
25°	7311.2	7328.7	7171.3	6926.4	6830.2	6847.7	6868.1	6897.3	6967.2	7069.3
27.5°	7626.1	7640.6	7433.7	7101.3	6955.6	6984.7	7013.9	6993.5	7025.5	7113.0
30°	8069.2	8077.9	7815.6	7375.4	7168.4	7183.0	7188.8	7104.3	7043.0	7113.0
32.5°	8593.9	8591.0	8279.1	7707.7	7410.3	7395.8	7346.2	7180.0	7037.2	7098.4
35°	9407.2	9375.2	8972.9	8174.1	7684.4	7594.0	7477.4	7264.6	7066.4	7083.8
37.5°	10754.0	10654.9	10098.1	8937.9	8092.5	7862.2	7690.2	7401.6	7130.5	7078.0
40°	12272.8	12147.5	11535.3	9984.4	8704.7	8334.5	8057.5	7596.9	7235.4	7104.3
42.5°	14074.4	13896.6	13237.8	11217.5	9480.1	8943.7	8526.9	7844.7	7389.9	7188.8
45°	16287.0	16050.9	15118.0	12608.1	10456.7	9742.5	9185.7	8220.8	7626.1	7352.0
47.5°	18522.9	18581.3	17254.9	14199.8	11628.6	10727.8	10010.7	8786.3	7970.1	7614.4
50°	20898.8	20939.6	19380.0	15963.4	12957.9	11841.4	10937.7	9418.9	8448.1	7987.5
52.5°	22752.9	22758.7	21309.8	17808.7	14342.6	13065.8	11937.6	10141.9	9002.0	8483.1
55°	23913.1	23898.5	22662.5	19554.9	15934.3	14351.3	13045.4	10963.9	9678.3	9066.2
57.5°	24755.6	24711.8	23595.3	21056.2	17630.9	15870.1	14298.9	11896.8	10477.1	9760.0
60°	25076.2	25050.0	24227.9	22353.5	19415.0	17549.3	15744.8	12940.4	11383.7	10579.1
62.5°	25198.7	25248.2	24848.9	23609.9	21324.4	19409.2	17333.6	14188.1	12404.0	11506.1
65°	25630.1	25720.5	25638.9	25254.1	23481.6	21586.8	19441.2	15671.9	13517.6	12500.2
67.5°	26484.3	26574.6	26609.6	27221.8	26116.9	24300.8	22070.7	17520.1	14820.7	13532.2
70°	26463.9	26437.6	27055.6	28787.2	29416.9	28058.4	25615.5	19794.0	16374.5	14389.2
72.5°	24088.0	23878.1	25338.6	28769.7	32163.0	31982.3	29944.6	22726.6	17715.4	14494.2
75°	18071.1	17511.4	20091.3	25927.5	32620.7	34209.4	32696.5	24545.7	17397.7	12806.3
77.5°	7728.1	7165.5	10206.0	19193.4	29195.4	31979.3	30171.9	21414.8	13887.8	8468.5
80°	2023.1	2020.2	3084.2	8701.8	19855.2	23615.7	20718.1	13829.5	7935.1	3025.9
82.5°	836.7	816.2	1134.0	3384.5	9701.7	13252.3	10815.3	6168.5	2865.6	819.2
85°	311.9	309.0	551.0	1169.0	3422.4	5465.9	3955.9	1577.1	714.2	399.4
87.5°	87.5	84.5	119.5	405.2	833.7	1265.2	676.3	259.4	201.1	157.4
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°
6285.1	0°	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1	6285.1
6296.8	2.5°	6305.5	6320.1	6346.3	6366.7	6393.0	6422.1	6462.9	6489.2	6515.4	6532.9
6311.3	5°	6331.7	6363.8	6430.9	6497.9	6576.6	6649.5	6734.0	6795.2	6844.8	6859.4
6363.8	7.5°	6390.0	6442.5	6556.2	6669.9	6795.2	6914.8	7037.2	7142.2	7226.7	7258.8
6457.1	10°	6492.1	6562.0	6722.4	6882.7	7048.9	7232.5	7389.9	7541.5	7661.0	7710.6
6567.9	12.5°	6620.3	6707.8	6917.7	7139.2	7369.5	7623.2	7827.2	8013.8	8162.5	8229.5
6722.4	15°	6786.5	6900.2	7168.4	7465.7	7803.9	8156.6	8416.1	8623.1	8789.2	8870.8
6882.7	17.5°	6967.2	7118.8	7457.0	7905.9	8389.8	8853.4	9156.5	9308.1	9480.1	9558.8
7031.4	20°	7142.2	7328.7	7812.6	8465.6	9109.9	9602.5	9847.4	9888.2	9899.9	9908.6
7171.3	22.5°	7322.9	7573.6	8258.7	9171.1	9862.0	10203.1	10238.1	10063.1	9818.3	9704.6
7308.3	25°	7521.1	7853.5	8841.7	9949.5	10509.2	10550.0	10281.8	9856.2	9392.7	9179.8
7419.1	27.5°	7713.5	8177.0	9541.3	10692.8	10975.6	10617.0	10039.8	9436.4	8876.7	8652.2
7497.8	30°	7905.9	8547.3	10313.8	11342.9	11188.4	10450.9	9657.9	8984.5	8421.9	8185.8
7567.8	32.5°	8101.2	8978.7	11203.0	11812.2	11150.5	10098.1	9182.8	8477.3	7981.7	7733.9
7629.0	35°	8322.8	9509.3	12045.5	12068.8	10896.9	9579.2	8556.0	7870.9	7439.5	7241.3
7701.9	37.5°	8611.4	10182.7	12788.8	12132.9	10453.8	8818.4	7777.7	7153.8	6798.2	6707.8
7809.7	40°	8970.0	10993.1	13357.3	12030.9	9797.9	7894.3	6926.4	6427.9	6226.8	6247.2
7955.5	42.5°	9436.4	11899.7	13756.7	11768.5	8885.4	6941.0	6180.1	5958.6	6054.8	6136.4
8174.1	45°	10042.7	12841.3	14004.4	11322.5	7853.5	6133.5	5740.0	5792.4	5865.3	5874.1
8526.9	47.5°	10818.2	13794.6	14167.7	10649.1	6801.1	5565.0	5460.1	5471.8	5457.2	5396.0
9054.5	50°	11786.0	14721.6	14313.5	9757.1	5906.1	5209.4	5069.5	5028.7	4827.5	4629.3
9757.1	52.5°	12887.9	15572.8	14374.7	8649.3	5209.4	4912.1	4684.7	4428.1	4052.1	3990.9
10640.3	55°	14112.3	16359.9	14217.3	7287.9	4623.4	4530.2	4186.2	3877.2	3836.4	3783.9
11803.5	57.5°	15575.7	17208.2	13896.6	5769.1	4022.9	4084.1	3748.9	3783.9	3711.0	3629.4
13299.0	60°	17176.1	18085.7	13334.0	4384.4	3402.0	3527.3	3635.2	3632.3	3611.9	3544.8
14876.1	62.5°	18616.2	18662.9	12226.2	3358.3	2856.9	3095.9	3390.3	3387.4	3369.9	3332.0
16523.1	65°	19473.3	18575.4	10378.0	2644.1	2407.9	2740.3	3058.0	3081.3	3084.2	3081.3
17762.1	67.5°	19321.7	17552.2	7841.8	2104.7	2037.7	2378.8	2728.6	2760.7	2784.0	2789.8
17919.5	70°	17607.6	15304.6	5113.2	1679.1	1708.3	2061.0	2416.7	2448.7	2469.1	2492.5
15549.5	72.5°	13724.6	11252.5	2926.8	1358.5	1419.7	1787.0	2107.7	2145.6	2157.2	2200.9
10821.1	75°	8363.6	6617.4	1580.0	1069.9	1166.1	1527.5	1801.6	1845.3	1865.7	1918.2
5314.3	77.5°	3976.3	2865.6	900.8	833.7	938.7	1247.7	1521.7	1571.3	1515.9	1545.0
1466.3	80°	1343.9	1064.0	568.5	635.5	717.1	973.7	1218.5	1268.1	1151.5	1145.7
486.8	82.5°	469.3	431.4	361.5	422.7	463.5	696.7	921.2	985.3	857.1	854.1
218.6	85°	183.7	174.9	201.1	230.3	276.9	428.5	606.4	638.4	527.6	425.6
64.1	87.5°	37.9	40.8	49.6	52.5	84.5	148.7	218.6	268.2	212.8	180.7
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>
6285.1
6521.2
6865.2
7261.7
7713.5
8229.5
8865.0
9555.9
9932.0
9736.6
9211.9
8678.4
8212.0
7766.0
7285.0
6771.9
6317.2
6212.2
5932.4
5442.6
4655.5
4011.3
3792.6
3614.8
3521.5
3317.5
3081.3
2795.6
2504.1
2218.4
1924.0
1521.7
1134.0
813.3
419.8
166.2
0.0

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