

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: P953225

Luminaire Tested: **GALN-SB6D-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
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-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56191 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

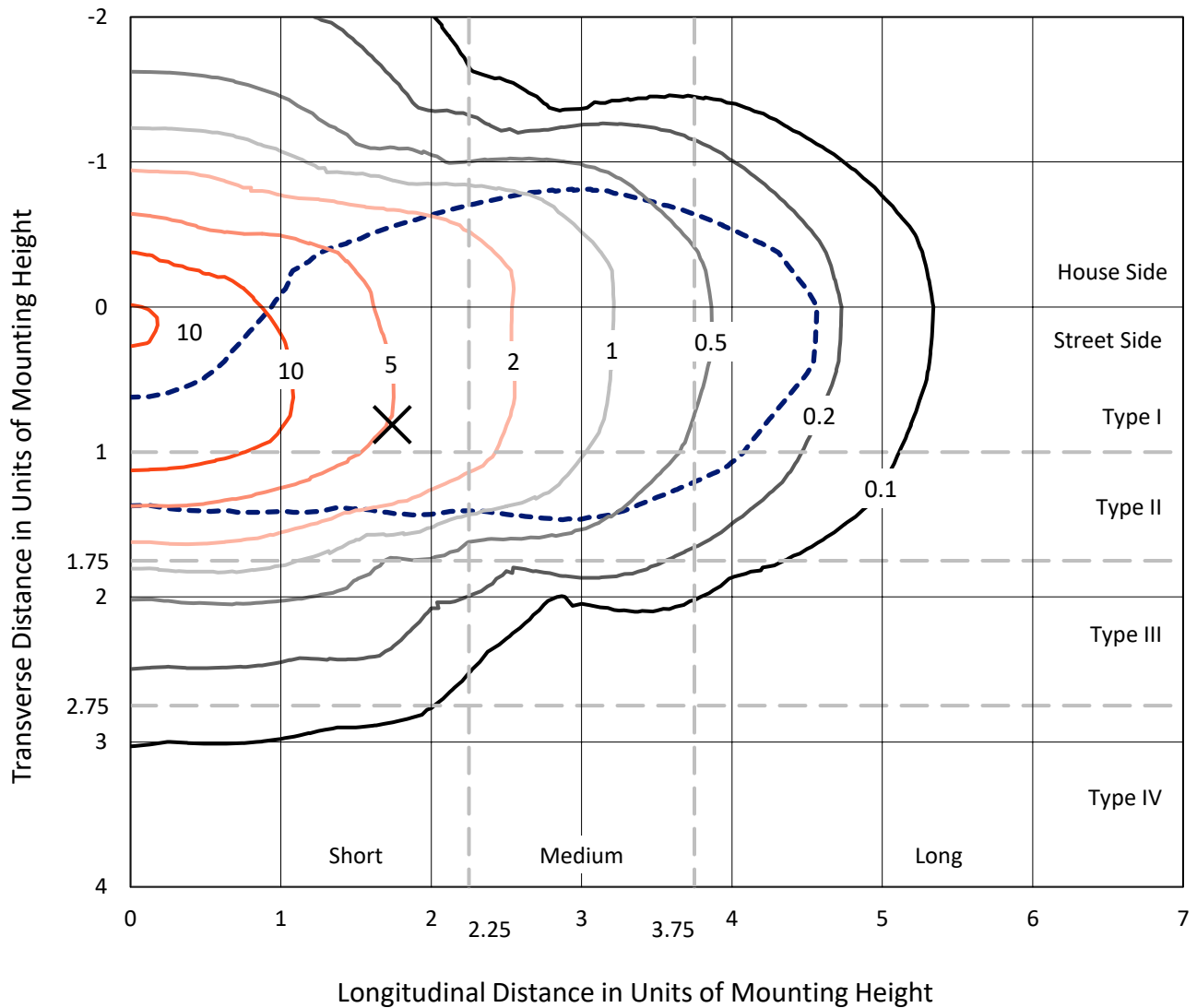
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

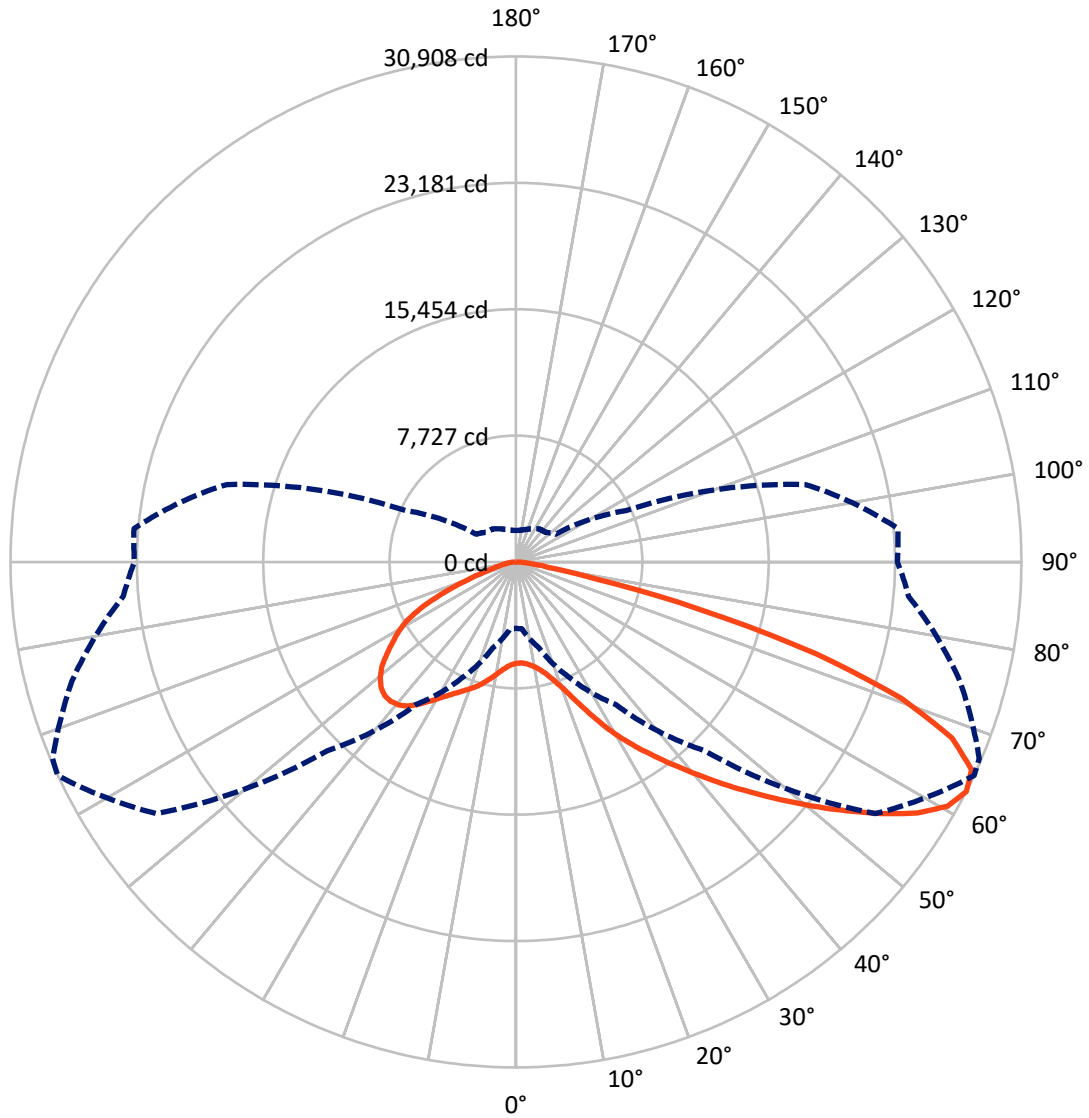
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17731.4	0.0	17731.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	38459.6	0.0	38459.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	56191.0	0.0	56191.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.3	1.1
10°-20°	2093.4	3.7
20°-30°	4244.7	7.6
30°-40°	7345.3	13.1
40°-50°	11115.8	19.8
50°-60°	13032.5	23.2
60°-70°	10926.2	19.4
70°-80°	6032.2	10.7
80°-90°	783.5	1.4
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°	56191.0	100.0
0°-180°	56191.0	100.0

Coefficient of Utilization

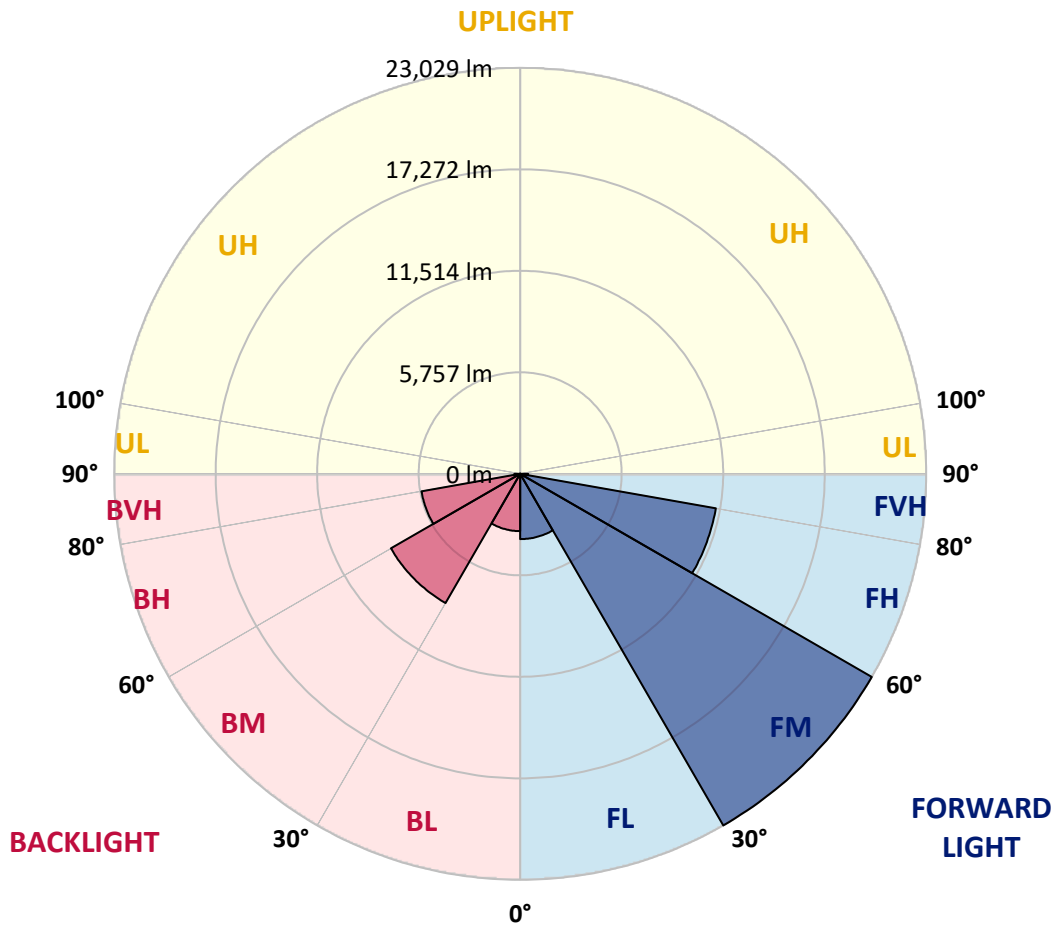


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3703.7	6.6			
FM (30°-60°)	23028.9	41.0			
FH (60°-80°)	11270.3	20.1			G4/12000
FVH (80°-90°)	456.7	0.8			G3/500
BL (0°-30°)	3251.7	5.8	B4/5000		
BM (30°-60°)	8464.7	15.1	B4/8500		
BH (60°-80°)	5688.1	10.1	B5		G5
BVH (80°-90°)	326.9	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	6192.0	6192.0	6192.0	6192.0	6192.0	6192.0	6192.0	6192.0	6192.0	6192.0
2.5°	6151.2	6133.7	6148.3	6148.3	6154.1	6151.2	6171.6	6177.4	6186.2	6203.7
5°	6090.0	6087.1	6113.3	6136.6	6159.9	6180.3	6206.6	6244.5	6250.3	6270.7
7.5°	6069.6	6052.1	6092.9	6122.0	6177.4	6227.0	6297.0	6361.1	6387.3	6396.1
10°	6227.0	6197.8	6235.7	6253.2	6299.9	6349.4	6431.1	6533.1	6562.2	6597.2
12.5°	6495.2	6463.1	6518.5	6544.8	6588.5	6632.2	6687.6	6786.7	6801.3	6865.4
15°	6862.5	6824.6	6859.6	6891.7	6964.5	7005.4	7060.8	7157.0	7157.0	7206.5
17.5°	7361.0	7311.5	7337.7	7349.4	7396.0	7457.2	7550.5	7635.1	7678.8	7661.3
20°	8104.4	8043.2	8043.2	7984.9	7967.4	8017.0	8139.4	8256.0	8302.7	8212.3
22.5°	9221.0	9133.5	9083.9	8885.7	8807.0	8812.8	8935.3	9078.1	9116.0	8955.7
25°	10640.7	10503.7	10436.6	10145.1	9967.3	9812.8	9909.0	10092.6	10145.1	9946.9
27.5°	12060.4	12069.2	12005.0	11655.2	11360.8	11078.0	11028.4	11220.8	11276.2	11051.7
30°	14051.5	13844.6	13722.1	13302.3	12882.5	12486.0	12282.0	12360.7	12375.3	12107.1
32.5°	15768.6	15716.1	15453.8	15086.5	14547.1	13926.2	13585.1	13459.7	13436.4	13054.5
35°	17724.8	17695.6	17418.7	16981.4	16398.3	15535.4	14920.3	14561.7	14532.6	13996.1
37.5°	19713.0	19713.0	19441.8	18963.7	18360.3	17281.6	16345.8	15777.4	15684.1	14984.4
40°	21298.9	21202.7	21252.2	21051.1	20360.2	19214.5	17928.8	17103.8	16978.5	16138.9
42.5°	22199.7	22167.6	22465.0	22689.4	22406.7	21491.3	19672.2	18541.0	18366.1	17409.9
45°	22400.8	22365.8	22896.4	23718.5	24115.0	23738.9	21567.1	20054.0	19841.2	18739.3
47.5°	21937.3	21867.3	22645.7	23943.0	25214.1	25875.8	23619.4	21695.3	21386.3	20033.6
50°	20543.8	20476.8	21654.5	23377.4	25584.3	27327.6	25846.7	23435.7	22963.5	21421.3
52.5°	17514.9	17546.9	19392.3	21759.5	25097.4	28231.3	27764.9	25269.4	24701.0	22841.0
55°	13643.4	13713.4	15981.4	18587.7	23150.1	28094.3	29073.9	27158.5	26593.0	24176.2
57.5°	9769.0	10078.0	12203.3	14783.3	19409.8	25922.5	29359.5	28954.3	28406.3	25633.8
60°	6331.9	6387.3	8573.8	11174.2	14780.3	22062.7	28779.4	30315.8	29887.2	27120.6
62.5°	4058.0	4095.9	5428.2	7815.8	10637.8	16322.5	26826.2	30907.5	30776.4	28103.1
65°	2982.3	2953.2	3647.0	5165.8	7165.7	10066.4	23033.4	30621.9	30881.3	28718.2
67.5°	2489.6	2448.8	2789.9	3577.0	5279.5	5716.8	17042.6	28764.8	29715.2	28648.2
70°	2268.1	2233.1	2440.1	2655.8	4119.3	3827.7	8591.3	25007.1	26470.5	27852.4
72.5°	1921.2	1859.9	2142.7	2358.4	3203.9	2935.7	3550.8	19208.6	20992.8	25301.5
75°	1489.7	1448.9	1690.8	2075.7	2408.0	2291.4	2244.7	11663.9	13611.3	19567.2
77.5°	1180.7	1125.3	1346.8	1618.0	2166.0	1728.7	1635.5	5023.0	6952.9	12491.9
80°	889.2	839.6	1023.3	1279.8	1664.6	1303.1	1058.2	2049.4	2620.8	6329.0
82.5°	632.6	588.9	714.2	938.7	1119.5	1169.0	650.1	1148.6	1291.5	2440.1
85°	405.2	379.0	478.1	588.9	711.3	752.1	396.5	600.5	658.8	1005.8
87.5°	221.6	180.7	256.5	274.0	329.4	300.3	189.5	218.6	236.1	364.4
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°
6192.0	0°	6192.0	6192.0	6192.0	6192.0	6192.0	6192.0	6192.0	6192.0	6192.0	6192.0
6203.7	2.5°	6215.3	6224.1	6253.2	6262.0	6282.4	6308.6	6326.1	6343.6	6343.6	6361.1
6297.0	5°	6299.9	6320.3	6381.5	6413.6	6466.0	6518.5	6550.6	6588.5	6611.8	6623.5
6445.6	7.5°	6463.1	6495.2	6582.6	6638.0	6728.4	6801.3	6850.9	6903.3	6915.0	6947.1
6652.6	10°	6684.7	6722.6	6821.7	6926.6	7034.5	7124.9	7171.5	7209.4	7224.0	7229.8
6917.9	12.5°	6938.3	6993.7	7122.0	7250.2	7363.9	7442.6	7454.3	7445.6	7404.8	7369.8
7244.4	15°	7250.2	7299.8	7442.6	7582.6	7693.4	7707.9	7635.1	7588.4	7538.9	7530.1
7608.8	17.5°	7623.4	7649.6	7780.8	7917.8	7926.6	7877.0	7769.2	7725.4	7678.8	7646.7
8084.0	20°	8057.8	8049.0	8142.3	8200.6	8139.4	7987.8	7824.5	7751.7	7705.0	7667.1
8667.1	22.5°	8576.7	8509.6	8498.0	8483.4	8320.1	8002.4	7780.8	7687.5	7614.6	7562.2
9480.4	25°	9331.7	9075.2	8897.4	8798.2	8430.9	7923.7	7640.9	7433.9	7296.9	7206.5
10474.5	27.5°	10276.3	9844.8	9395.9	9153.9	8430.9	7763.3	7302.7	6967.5	6743.0	6649.7
11436.6	30°	11177.1	10725.2	10063.5	9582.4	8410.5	7501.0	6757.6	6291.1	6028.8	5935.5
12258.7	32.5°	11946.7	11454.0	10771.9	10051.8	8361.0	7075.3	6081.2	5565.2	5311.6	5200.8
13072.0	35°	12661.0	12136.2	11483.2	10567.8	8229.8	6451.5	5337.8	4944.3	4661.5	4483.7
13899.9	37.5°	13392.7	12768.8	12156.6	11034.2	7993.6	5722.6	4766.4	4431.2	4098.9	3859.8
14780.3	40°	14188.6	13442.2	12876.7	11311.2	7605.9	5028.8	4323.3	4017.2	3664.5	3410.8
15794.9	42.5°	15118.5	14249.8	13678.4	11454.0	7075.3	4536.1	4034.7	3734.4	3402.1	3195.1
16882.2	45°	16089.3	15138.9	14410.1	11451.1	6483.5	4305.8	3941.4	3644.1	3276.7	3061.0
17998.8	47.5°	17106.7	16068.9	15042.7	11264.6	5970.4	4337.9	3889.0	3448.7	3043.5	2833.6
19127.0	50°	18127.1	17086.3	15654.9	10914.7	5751.8	4267.9	3693.6	3174.7	2696.6	2507.1
20185.2	52.5°	19138.7	18167.9	16182.6	10416.2	5530.2	4008.5	3442.9	2819.1	2553.8	2422.6
21278.5	55°	20156.1	19237.8	16756.9	9690.3	4976.3	3705.3	3023.1	2685.0	2440.1	2320.5
22348.4	57.5°	21176.4	20473.8	17302.0	8964.4	4279.6	3332.1	2792.8	2521.7	2326.4	2224.3
23243.3	60°	22237.6	21887.7	17864.7	8296.8	3591.6	2854.0	2623.7	2390.5	2192.3	2078.6
24103.3	62.5°	23330.8	23444.5	18304.9	7436.8	2959.0	2562.5	2472.1	2233.1	2040.7	1932.8
24814.7	65°	24432.8	24945.8	18593.5	6244.5	2399.3	2285.6	2308.9	2061.1	1865.8	1772.5
25336.5	67.5°	25263.6	26027.4	18511.9	4725.6	1967.8	2023.2	2104.8	1880.3	1696.7	1623.8
25252.0	70°	25356.9	25899.1	17707.3	3235.9	1647.1	1766.6	1877.4	1702.5	1513.0	1460.5
24062.5	72.5°	24115.0	24150.0	15465.4	2113.6	1393.5	1550.9	1638.4	1521.8	1338.1	1285.6
21051.1	75°	20858.7	19972.4	11354.9	1393.5	1166.1	1332.3	1413.9	1332.3	1154.4	1166.1
15751.1	77.5°	15803.6	14144.8	6894.6	991.2	973.7	1119.5	1230.2	1171.9	1020.3	1145.7
7920.8	80°	8142.3	7652.5	3075.6	740.5	769.6	895.0	1011.6	935.8	807.5	769.6
1769.6	82.5°	1865.8	2169.0	1212.7	530.6	556.8	644.3	772.5	702.6	580.1	489.8
737.6	85°	653.0	714.2	536.4	332.3	326.5	402.3	524.7	469.4	393.6	314.8
311.9	87.5°	207.0	271.1	201.2	134.1	139.9	180.7	242.0	221.6	183.7	119.5
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>
6192.0
6361.1
6629.3
6935.4
7215.3
7369.8
7530.1
7649.6
7670.0
7579.7
7241.5
6696.3
5990.9
5256.2
4542.0
3923.9
3460.4
3235.9
3096.0
2862.8
2518.8
2422.6
2308.9
2206.8
2069.8
1929.9
1769.6
1626.7
1463.5
1282.7
1125.3
1008.7
702.6
483.9
332.3
125.4
0.0

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