

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: P956228

Luminaire Tested: **GALN-SB8D-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956228
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-SB8D-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60426 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

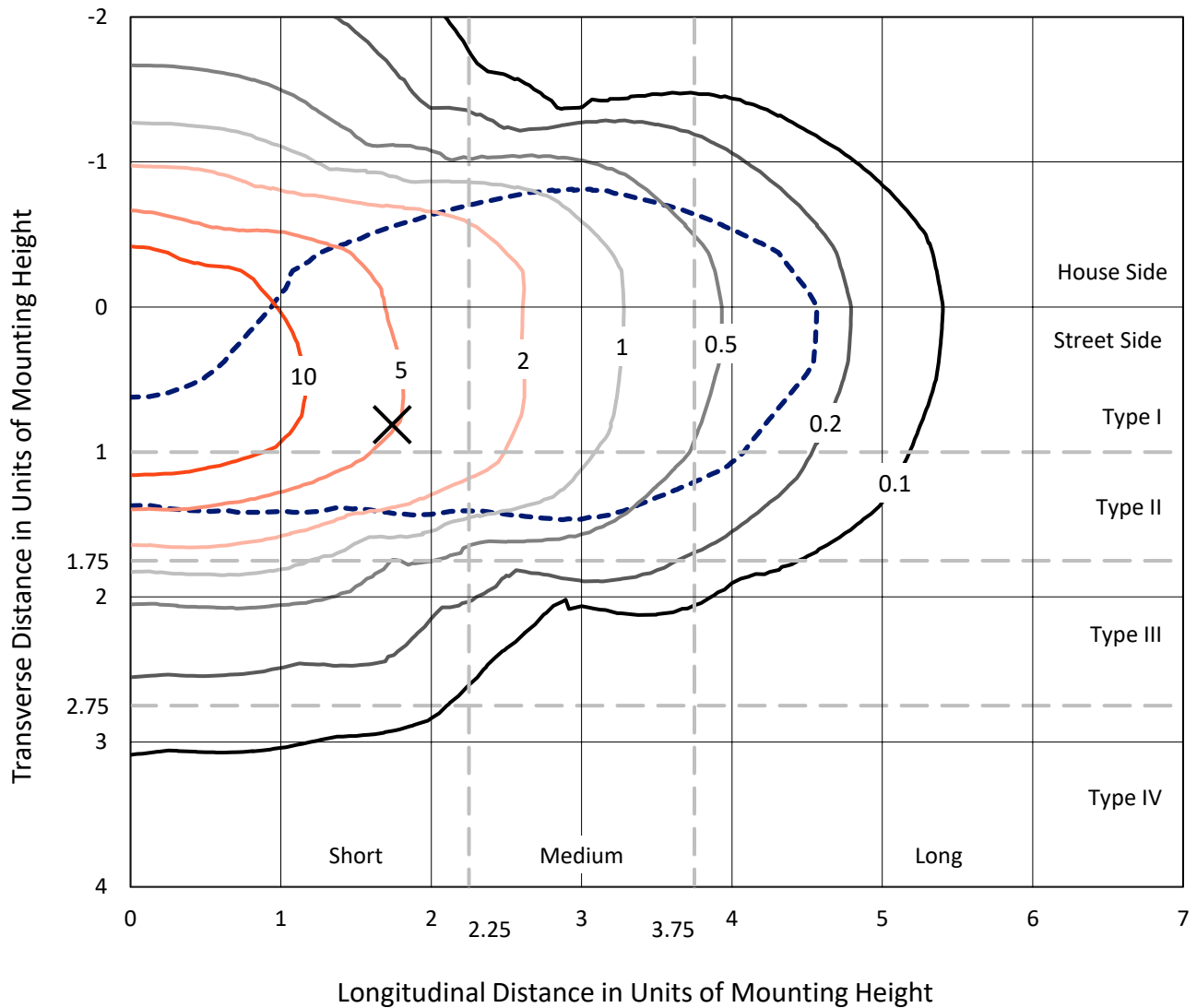
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

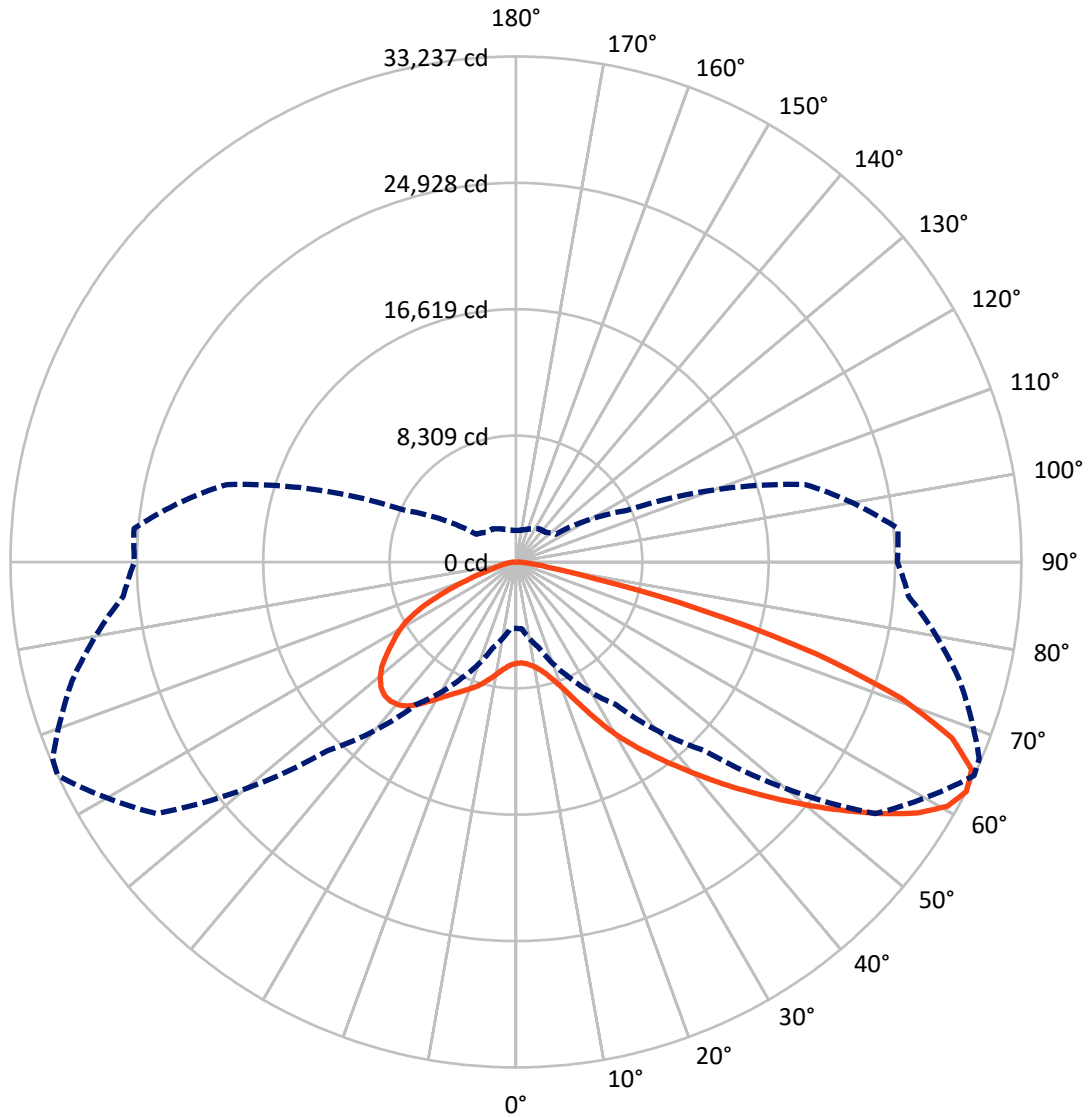
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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	19067.8	0.0	19067.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	41358.2	0.0	41358.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	60426.0	0.0	60426.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.9	1.1
10°-20°	2251.2	3.7
20°-30°	4564.6	7.6
30°-40°	7898.9	13.1
40°-50°	11953.5	19.8
50°-60°	14014.8	23.2
60°-70°	11749.7	19.4
70°-80°	6486.8	10.7
80°-90°	842.6	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°	60426.0	100.0
0°-180°	60426.0	100.0

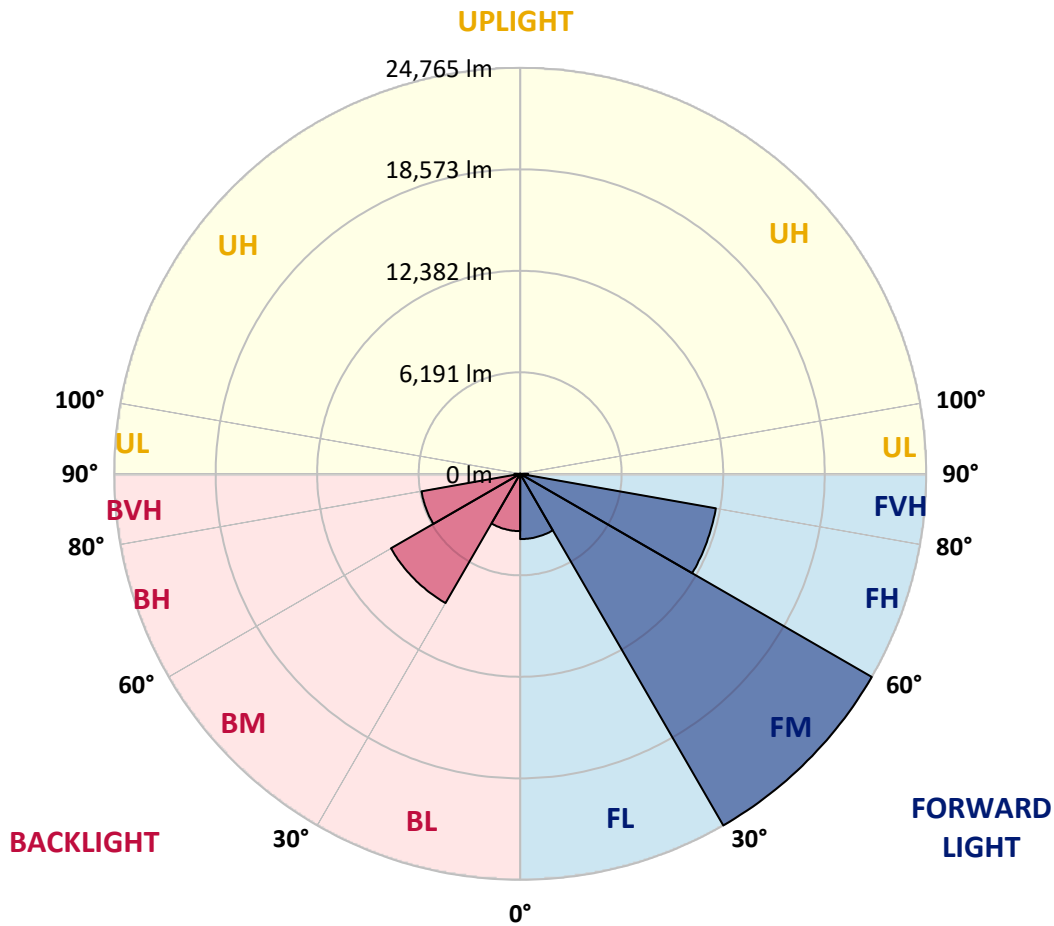


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3982.9	6.6			
FM (30°-60°)	24764.5	41.0			
FH (60°-80°)	12119.7	20.1			G5
FVH (80°-90°)	491.1	0.8			G3/500
BL (0°-30°)	3496.8	5.8	B4/5000		
BM (30°-60°)	9102.7	15.1	B5		
BH (60°-80°)	6116.8	10.1	B5		G5
BVH (80°-90°)	351.5	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°	6658.7	6658.7	6658.7	6658.7	6658.7	6658.7	6658.7	6658.7	6658.7	6658.7
2.5°	6614.8	6596.0	6611.7	6611.7	6617.9	6614.8	6636.7	6643.0	6652.4	6671.2
5°	6549.0	6545.8	6574.0	6599.1	6624.2	6646.1	6674.4	6715.1	6721.4	6743.3
7.5°	6527.0	6508.2	6552.1	6583.4	6643.0	6696.3	6771.5	6840.5	6868.7	6878.1
10°	6696.3	6665.0	6705.7	6724.5	6774.7	6828.0	6915.8	7025.5	7056.8	7094.4
12.5°	6984.7	6950.2	7009.8	7038.0	7085.0	7132.1	7191.6	7298.2	7313.9	7382.9
15°	7379.7	7339.0	7376.6	7411.1	7489.5	7533.3	7592.9	7696.4	7696.4	7749.7
17.5°	7915.8	7862.5	7890.7	7903.3	7953.4	8019.3	8119.6	8210.5	8257.5	8238.7
20°	8715.2	8649.4	8649.4	8586.7	8567.9	8621.2	8752.8	8878.2	8928.4	8831.2
22.5°	9915.9	9821.9	9768.6	9555.4	9470.8	9477.0	9608.7	9762.3	9803.1	9630.6
25°	11442.7	11295.3	11223.2	10909.7	10718.5	10552.3	10655.8	10853.3	10909.7	10696.5
27.5°	12969.4	12978.8	12909.8	12533.6	12217.0	11912.9	11859.6	12066.5	12126.1	11884.7
30°	15110.6	14888.0	14756.3	14304.9	13853.4	13427.1	13207.6	13292.3	13308.0	13019.5
32.5°	16957.1	16900.6	16618.5	16223.5	15643.5	14975.8	14609.0	14474.2	14449.1	14038.4
35°	19060.6	19029.3	18731.5	18261.2	17634.2	16706.3	16044.8	15659.2	15627.8	15051.0
37.5°	21198.7	21198.7	20907.1	20393.0	19744.1	18584.1	17577.8	16966.5	16866.2	16113.8
40°	22904.1	22800.7	22854.0	22637.6	21894.7	20662.6	19280.1	18392.9	18258.1	17355.2
42.5°	23872.8	23838.3	24158.1	24399.5	24095.4	23111.0	21154.8	19938.4	19750.3	18722.1
45°	24089.1	24051.5	24622.1	25506.1	25932.5	25528.1	23192.5	21565.5	21336.6	20151.6
47.5°	23590.7	23515.4	24352.5	25747.5	27114.4	27826.0	25399.6	23330.5	22998.2	21543.5
50°	22092.2	22020.1	23286.6	25139.4	27512.5	29387.2	27794.7	25202.0	24694.2	23035.8
52.5°	18834.9	18869.4	20853.8	23399.4	26989.0	30359.1	29857.5	27173.9	26562.6	24562.5
55°	14671.7	14746.9	17185.9	19988.6	24894.8	30211.7	31265.1	29205.4	28597.2	25998.3
57.5°	10505.3	10837.6	13123.0	15897.4	20872.7	27876.2	31572.3	31136.6	30547.2	27565.8
60°	6809.2	6868.7	9220.0	12016.4	15894.3	23725.5	30948.5	32600.6	32139.7	29164.7
62.5°	4363.9	4404.6	5837.3	8404.9	11439.5	17552.7	28848.0	33237.0	33095.9	30221.1
65°	3207.1	3175.7	3921.9	5555.2	7705.8	10825.1	24769.4	32929.8	33208.8	30882.6
67.5°	2677.3	2633.4	3000.2	3846.6	5677.4	6147.7	18327.1	30932.8	31954.8	30807.4
70°	2439.0	2401.4	2624.0	2856.0	4429.7	4116.2	9238.8	26891.8	28465.6	29951.5
72.5°	2065.9	2000.1	2304.2	2536.2	3445.3	3156.9	3818.4	20656.3	22574.9	27208.4
75°	1602.0	1558.1	1818.3	2232.1	2589.5	2464.1	2413.9	12543.0	14637.2	21041.9
77.5°	1269.7	1210.1	1448.4	1739.9	2329.3	1859.0	1758.7	5401.6	7476.9	13433.4
80°	956.2	902.9	1100.4	1376.3	1790.1	1401.3	1138.0	2203.9	2818.3	6806.0
82.5°	680.3	633.3	768.1	1009.5	1203.8	1257.1	699.1	1235.2	1388.8	2624.0
85°	435.8	407.5	514.1	633.3	764.9	808.8	426.4	645.8	708.5	1081.6
87.5°	238.3	194.4	275.9	294.7	354.3	322.9	203.8	235.1	253.9	391.9
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°
6658.7	0°	6658.7	6658.7	6658.7	6658.7	6658.7	6658.7	6658.7	6658.7	6658.7	6658.7
6671.2	2.5°	6683.8	6693.2	6724.5	6733.9	6755.9	6784.1	6802.9	6821.7	6821.7	6840.5
6771.5	5°	6774.7	6796.6	6862.5	6896.9	6953.4	7009.8	7044.3	7085.0	7110.1	7122.7
6931.4	7.5°	6950.2	6984.7	7078.8	7138.3	7235.5	7313.9	7367.2	7423.6	7436.2	7470.6
7154.0	10°	7188.5	7229.2	7335.8	7448.7	7564.7	7661.9	7712.0	7752.8	7768.5	7774.7
7439.3	12.5°	7461.2	7520.8	7658.7	7796.7	7918.9	8003.6	8016.1	8006.7	7962.8	7925.2
7790.4	15°	7796.7	7850.0	8003.6	8154.1	8273.2	8288.9	8210.5	8160.3	8107.0	8097.6
8182.3	17.5°	8198.0	8226.2	8367.2	8514.6	8524.0	8470.7	8354.7	8307.7	8257.5	8223.0
8693.3	20°	8665.1	8655.7	8756.0	8818.7	8752.8	8589.8	8414.3	8335.9	8285.7	8245.0
9320.3	22.5°	9223.1	9151.0	9138.4	9122.8	8947.2	8605.5	8367.2	8266.9	8188.6	8132.1
10194.9	25°	10035.0	9759.2	9567.9	9461.3	9066.3	8520.9	8216.8	7994.2	7846.8	7749.7
11264.0	27.5°	11050.8	10586.8	10104.0	9843.8	9066.3	8348.4	7853.1	7492.6	7251.2	7150.9
12298.5	30°	12019.5	11533.6	10821.9	10304.7	9044.4	8066.3	7266.9	6765.3	6483.1	6382.8
13182.6	32.5°	12847.1	12317.3	11583.7	10809.4	8991.1	7608.6	6539.6	5984.7	5711.9	5592.8
14057.2	35°	13615.2	13050.9	12348.7	11364.3	8850.0	6937.7	5740.1	5316.9	5012.8	4821.6
14947.6	37.5°	14402.1	13731.2	13072.8	11865.9	8596.1	6154.0	5125.7	4765.2	4407.8	4150.7
15894.3	40°	15257.9	14455.4	13847.2	12163.7	8179.1	5407.8	4649.2	4320.0	3940.7	3667.9
16985.3	42.5°	16258.0	15323.7	14709.3	12317.3	7608.6	4878.0	4338.8	4015.9	3658.5	3435.9
18154.6	45°	17301.9	16279.9	15496.2	12314.2	6972.2	4630.4	4238.5	3918.7	3523.7	3291.7
19355.3	47.5°	18396.0	17280.0	16176.5	12113.5	6420.4	4664.8	4182.1	3708.7	3272.9	3047.2
20568.6	50°	19493.3	18374.1	16834.8	11737.3	6185.3	4589.6	3972.0	3414.0	2899.9	2696.1
21706.6	52.5°	20581.1	19537.2	17402.2	11201.3	5947.0	4310.6	3702.4	3031.5	2746.2	2605.2
22882.2	55°	21675.2	20687.7	18019.8	10420.7	5351.4	3984.6	3251.0	2887.3	2624.0	2495.4
24032.7	57.5°	22772.4	22016.9	18606.1	9640.0	4602.1	3583.3	3003.3	2711.8	2501.7	2392.0
24995.1	60°	23913.6	23537.4	19211.1	8922.1	3862.3	3069.1	2821.5	2570.7	2357.5	2235.2
25920.0	62.5°	25089.2	25211.5	19684.5	7997.3	3182.0	2755.6	2658.5	2401.4	2194.5	2078.5
26684.9	65°	26274.2	26826.0	19994.9	6715.1	2580.1	2457.8	2482.9	2216.4	2006.4	1906.1
27246.1	67.5°	27167.7	27989.0	19907.1	5081.8	2116.1	2175.7	2263.5	2022.1	1824.6	1746.2
27155.1	70°	27268.0	27851.1	19041.8	3479.8	1771.3	1899.8	2018.9	1830.8	1627.1	1570.6
25876.1	72.5°	25932.5	25970.1	16631.0	2272.9	1498.5	1667.8	1761.9	1636.5	1439.0	1382.5
22637.6	75°	22430.7	21477.7	12210.7	1498.5	1254.0	1432.7	1520.5	1432.7	1241.4	1254.0
16938.3	77.5°	16994.7	15210.9	7414.2	1065.9	1047.1	1203.8	1323.0	1260.3	1097.2	1232.0
8517.7	80°	8756.0	8229.3	3307.4	796.3	827.6	962.4	1087.8	1006.3	868.4	827.6
1902.9	82.5°	2006.4	2332.4	1304.1	570.6	598.8	692.8	830.8	755.5	623.9	526.7
793.1	85°	702.2	768.1	576.8	357.4	351.1	432.6	564.3	504.7	423.2	338.6
335.4	87.5°	222.6	291.6	216.3	144.2	150.5	194.4	260.2	238.3	197.5	128.5
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>
6658.7
6840.5
7128.9
7458.1
7759.1
7925.2
8097.6
8226.2
8248.1
8150.9
7787.3
7201.0
6442.4
5652.4
4884.3
4219.7
3721.2
3479.8
3329.3
3078.5
2708.6
2605.2
2482.9
2373.2
2225.8
2075.4
1902.9
1749.3
1573.8
1379.4
1210.1
1084.7
755.5
520.4
357.4
134.8
0.0

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