

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: P951501

Luminaire Tested: **GALN-SB5C-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5C-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36857 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

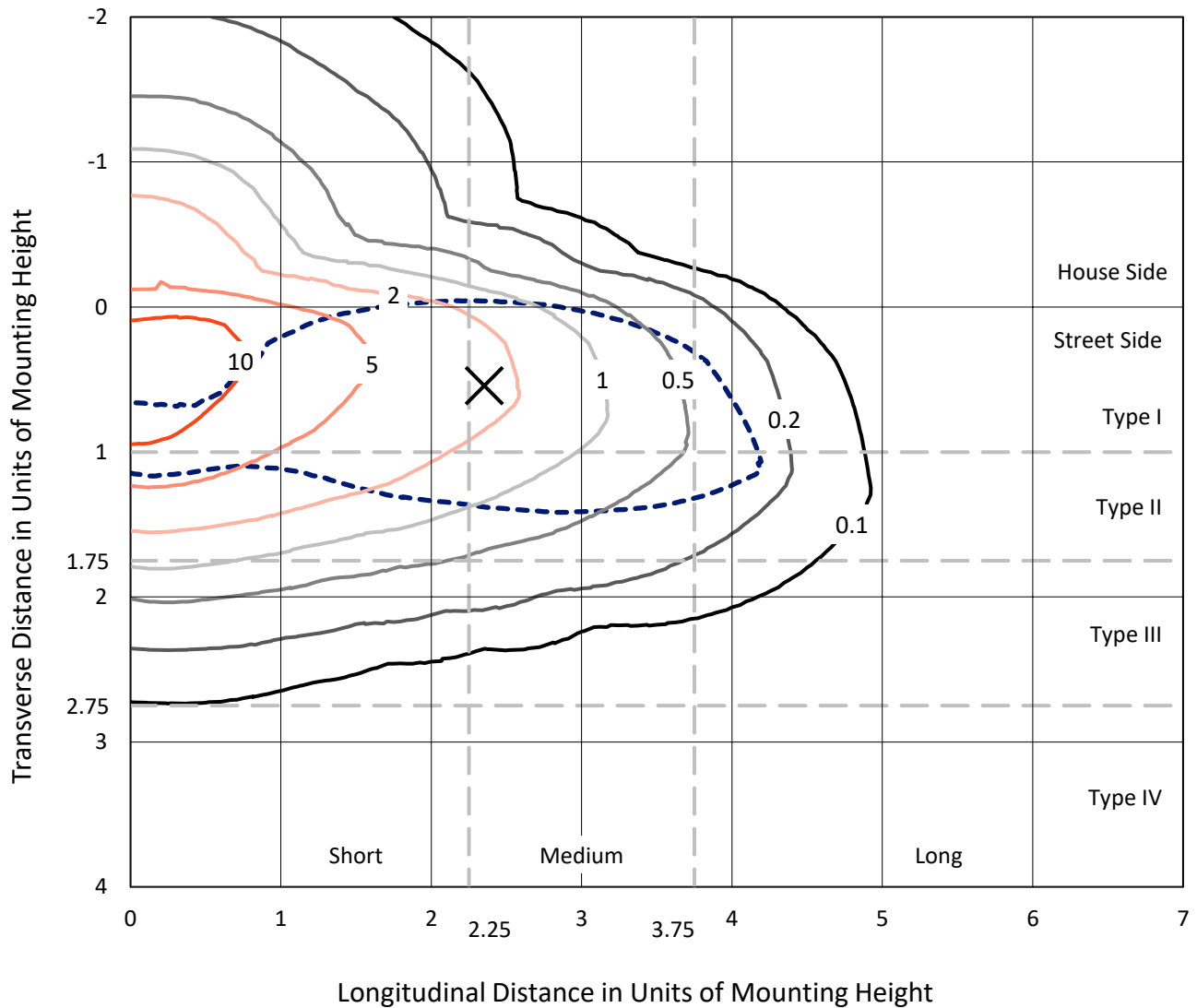
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

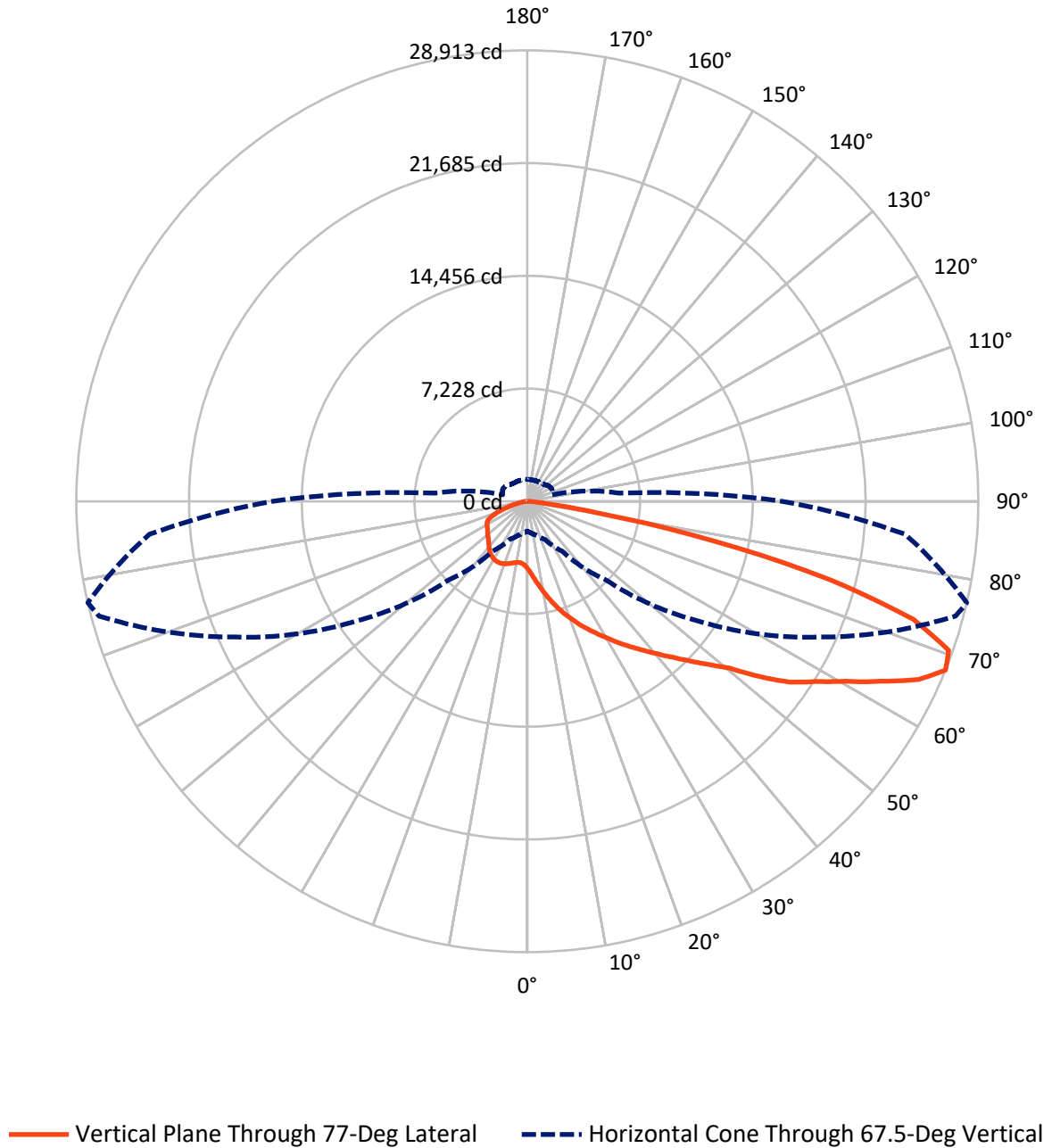
✕ Max cd
 - - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6971.9	0.0	6971.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	29885.1	0.0	29885.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	36857.0	0.0	36857.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.5	1.3
10°-20°	1665.3	4.5
20°-30°	3144.2	8.5
30°-40°	5065.2	13.7
40°-50°	6928.3	18.8
50°-60°	7815.2	21.2
60°-70°	7294.5	19.8
70°-80°	3998.6	10.8
80°-90°	482.3	1.3
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°	36857.0	100.0
0°-180°	36857.0	100.0



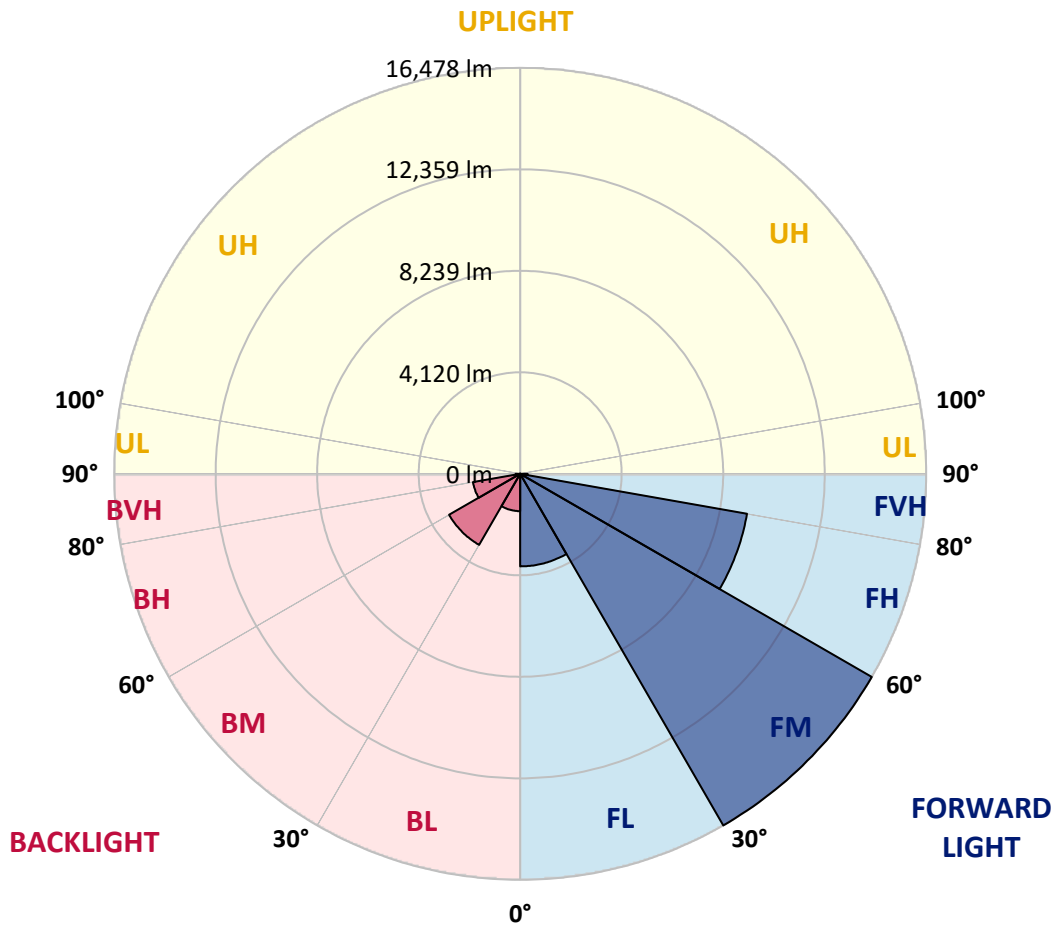
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3757.1	10.2			
FM (30°-60°)	16478.4	44.7			
FH (60°-80°)	9348.0	25.4			G4/12000
FVH (80°-90°)	301.6	0.8			G3/500
BL (0°-30°)	1515.8	4.1	B3/2500		
BM (30°-60°)	3330.3	9.0	B3/5000		
BH (60°-80°)	1945.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	180.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5
2.5°	5414.6	5452.7	5405.1	5405.1	5245.3	5161.6	5001.8	4880.0	4661.2	4623.2
5°	6400.1	6447.7	6381.1	6352.6	6164.2	5991.1	5722.8	5458.4	5068.4	5028.4
7.5°	7163.1	7223.9	7165.0	7134.5	6967.1	6773.0	6459.1	6090.0	5540.2	5462.2
10°	7785.2	7794.7	7775.7	7787.1	7655.8	7496.0	7174.5	6744.5	6057.7	5951.1
12.5°	8137.2	8180.9	8219.0	8287.5	8264.6	8165.7	7876.5	7362.8	6605.6	6468.6
15°	8302.7	8378.8	8464.4	8622.3	8749.8	8774.5	8553.8	8026.8	7163.1	6997.5
17.5°	8361.7	8434.0	8569.0	8797.3	9071.3	9255.9	9156.9	8671.8	7714.8	7524.5
20°	8660.4	8681.3	8763.1	8980.0	9276.8	9583.1	9657.3	9292.0	8260.8	8045.8
22.5°	9299.6	9257.8	9280.6	9379.5	9592.6	9889.4	10058.7	9839.9	8822.1	8574.7
25°	10355.5	10233.8	10112.0	9997.8	10106.3	10273.7	10465.9	10387.9	9410.0	9096.0
27.5°	11689.2	11540.8	11272.5	10897.7	10766.5	10825.4	10911.1	10895.8	9954.1	9636.4
30°	13002.0	12828.8	12509.2	11967.0	11620.7	11464.7	11400.0	11356.3	10545.8	10207.1
32.5°	14050.3	13913.3	13599.3	12992.4	12490.2	12223.8	12008.8	11852.8	11164.1	10825.4
35°	14967.3	14839.8	14480.2	13818.1	13272.1	12988.6	12707.1	12374.1	11807.2	11464.7
37.5°	15804.4	15676.9	15184.2	14495.4	13945.6	13749.6	13498.5	12933.5	12452.1	12128.7
40°	16333.3	16304.8	15844.3	15064.3	14493.5	14396.5	14312.8	13582.2	13167.5	12866.9
42.5°	16468.4	16531.2	16165.9	15524.7	14980.6	14902.6	15098.5	14316.6	13970.3	13683.1
45°	16143.0	16323.8	16084.1	15648.4	15326.9	15285.0	15794.9	15119.5	14858.8	14596.3
47.5°	15319.2	15625.6	15526.6	15465.7	15420.1	15600.8	16407.5	15971.8	15865.3	15637.0
50°	13656.4	14236.7	14409.8	14794.1	15235.5	15846.2	16964.9	16902.2	17041.0	16810.8
52.5°	10781.7	11580.8	12585.3	13548.0	14668.6	15764.4	17577.6	18237.7	18823.7	18698.2
55°	8900.1	9259.7	10032.1	11797.6	13568.9	15420.1	17853.4	19316.5	20593.1	20480.8
57.5°	7454.1	7775.7	8251.3	9725.8	11906.1	14638.1	18024.7	19974.8	21805.0	21793.6
60°	5903.6	6244.1	6731.2	7775.7	9963.6	13287.3	17986.6	20724.4	23351.8	23446.9
62.5°	4153.2	4528.0	5068.4	6042.5	7979.2	11537.0	17210.4	21266.6	25172.5	25431.2
65°	2730.1	2977.5	3384.6	4225.5	5945.4	9286.3	15728.3	21337.0	27120.7	27558.3
67.5°	1914.0	2009.1	2248.8	2705.4	3919.2	7121.2	13367.2	20608.3	28420.1	28912.9
70°	1493.5	1541.1	1662.8	1845.5	2461.9	4788.7	10243.3	18713.4	28142.4	28656.0
72.5°	1289.9	1335.6	1381.2	1404.1	1651.4	2956.5	6938.6	15646.5	25526.4	25874.5
75°	1170.1	1181.5	1219.5	1211.9	1259.5	1917.8	4004.8	11400.0	20140.3	20020.4
77.5°	983.6	998.8	1061.6	1052.1	1118.7	1310.8	2079.5	7357.1	13057.1	12242.8
80°	833.3	840.9	909.4	898.0	972.2	949.4	1061.6	3749.9	5538.3	4691.7
82.5°	289.2	357.7	694.4	715.4	742.0	574.6	612.6	1529.6	1691.4	1295.6
85°	140.8	150.3	353.9	502.3	500.4	289.2	298.7	546.0	532.7	418.6
87.5°	22.8	28.5	41.9	196.0	156.0	76.1	102.7	106.5	110.3	95.1
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°
4324.5	0°	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5	4324.5
4478.6	2.5°	4372.0	4276.9	4077.1	3892.6	3748.0	3609.1	3531.1	3464.5	3426.5	3418.9
4687.9	5°	4490.0	4294.0	3930.6	3624.3	3424.6	3276.2	3198.2	3148.7	3124.0	3108.7
4969.4	7.5°	4659.3	4372.0	3854.5	3506.4	3297.1	3190.6	3150.6	3143.0	3141.1	3143.0
5310.0	10°	4893.3	4499.5	3846.9	3477.8	3302.8	3243.8	3241.9	3243.8	3251.4	3253.3
5681.0	12.5°	5146.4	4630.8	3877.4	3502.6	3375.1	3342.8	3337.1	3335.2	3340.9	3344.7
6055.8	15°	5422.2	4803.9	3928.7	3555.8	3455.0	3420.8	3415.1	3403.6	3401.7	3399.8
6449.6	17.5°	5705.7	4975.1	3985.8	3612.9	3506.4	3458.8	3437.9	3411.3	3390.3	3384.6
6856.8	20°	5993.0	5144.5	4025.8	3641.5	3510.2	3443.6	3401.7	3356.1	3319.9	3299.0
7267.7	22.5°	6299.3	5321.4	4050.5	3633.8	3475.9	3384.6	3308.5	3255.2	3200.1	3163.9
7682.5	25°	6598.0	5475.5	4048.6	3593.9	3409.3	3293.3	3196.3	3127.8	3051.7	3013.6
8110.5	27.5°	6885.3	5614.4	4001.0	3523.5	3314.2	3184.9	3068.8	2987.0	2912.8	2876.6
8542.4	30°	7182.1	5730.4	3926.8	3420.8	3202.0	3059.3	2931.8	2861.4	2794.8	2760.6
8999.0	32.5°	7477.0	5837.0	3822.2	3293.3	3072.6	2935.6	2810.1	2745.4	2705.4	2705.4
9489.9	35°	7789.0	5911.2	3683.3	3144.9	2935.6	2804.3	2705.4	2667.4	2663.6	2640.7
10009.3	37.5°	8118.1	5958.8	3514.0	2992.7	2800.5	2676.9	2646.4	2600.8	2562.7	2513.3
10580.0	40°	8464.4	6006.3	3310.4	2834.8	2657.8	2589.4	2576.0	2515.2	2406.7	2284.9
11226.9	42.5°	8884.9	6038.7	3099.2	2676.9	2507.5	2484.7	2503.7	2399.1	2226.0	2134.6
12006.9	45°	9371.9	6091.9	2905.2	2520.9	2353.4	2353.4	2433.3	2296.4	2153.7	2096.6
12897.3	47.5°	10003.6	6215.6	2724.4	2349.6	2210.8	2248.8	2277.3	2172.7	2092.8	2022.4
13981.8	50°	10916.8	6512.4	2538.0	2176.5	2102.3	2178.4	2138.5	2077.6	1984.3	1927.3
15705.5	52.5°	12050.7	6687.4	2372.5	2020.5	2009.1	2085.2	2028.1	1971.0	1900.6	1824.5
17012.5	55°	12823.1	6719.8	2233.6	1906.3	1946.3	1938.7	1917.8	1866.4	1828.3	1727.5
18302.4	57.5°	13686.9	6784.5	2119.4	1837.9	1906.3	1822.6	1815.0	1771.3	1721.8	1653.3
19875.8	60°	14719.9	6885.3	2020.5	1811.2	1872.1	1746.5	1708.5	1691.4	1641.9	1607.6
21768.9	62.5°	15846.2	6976.6	1919.7	1815.0	1832.1	1672.3	1615.3	1609.5	1579.1	1567.7
23545.8	65°	16614.9	6727.4	1794.1	1811.2	1769.4	1596.2	1523.9	1522.0	1497.3	1493.5
24316.4	67.5°	16346.6	5937.8	1624.8	1757.9	1704.7	1520.1	1440.2	1432.6	1400.3	1402.2
23511.6	70°	15003.4	4811.5	1390.8	1626.7	1624.8	1451.6	1352.7	1328.0	1284.2	1291.8
20442.8	72.5°	12484.5	3565.4	1076.8	1407.9	1497.3	1388.9	1251.9	1211.9	1156.7	1164.4
15090.9	75°	9016.1	2423.8	783.8	1071.1	1303.2	1314.7	1152.9	1084.4	1017.9	1029.3
8399.7	77.5°	4613.7	1373.6	576.5	738.2	1023.6	1194.8	1063.5	972.2	957.0	1063.5
2421.9	80°	1504.9	688.7	399.5	517.5	671.6	977.9	932.2	827.6	823.8	848.5
508.0	82.5°	449.0	291.1	256.8	340.6	371.0	749.6	804.8	625.9	538.4	567.0
169.3	85°	154.1	140.8	146.5	169.3	176.9	439.5	563.2	414.8	391.9	431.9
38.1	87.5°	36.1	49.5	41.9	38.1	38.1	106.5	218.8	173.1	239.7	159.8
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>
4324.5
3418.9
3106.8
3148.7
3255.2
3346.6
3397.9
3390.3
3306.6
3165.8
3013.6
2874.7
2758.7
2707.3
2635.0
2505.6
2267.8
2136.6
2106.1
2020.5
1921.6
1809.3
1729.4
1630.5
1617.2
1567.7
1491.6
1402.2
1299.4
1162.5
1033.1
1048.3
728.7
586.0
426.2
154.1
0.0

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