

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: P943077

Luminaire Tested: **GALN-SB7B-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38331 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

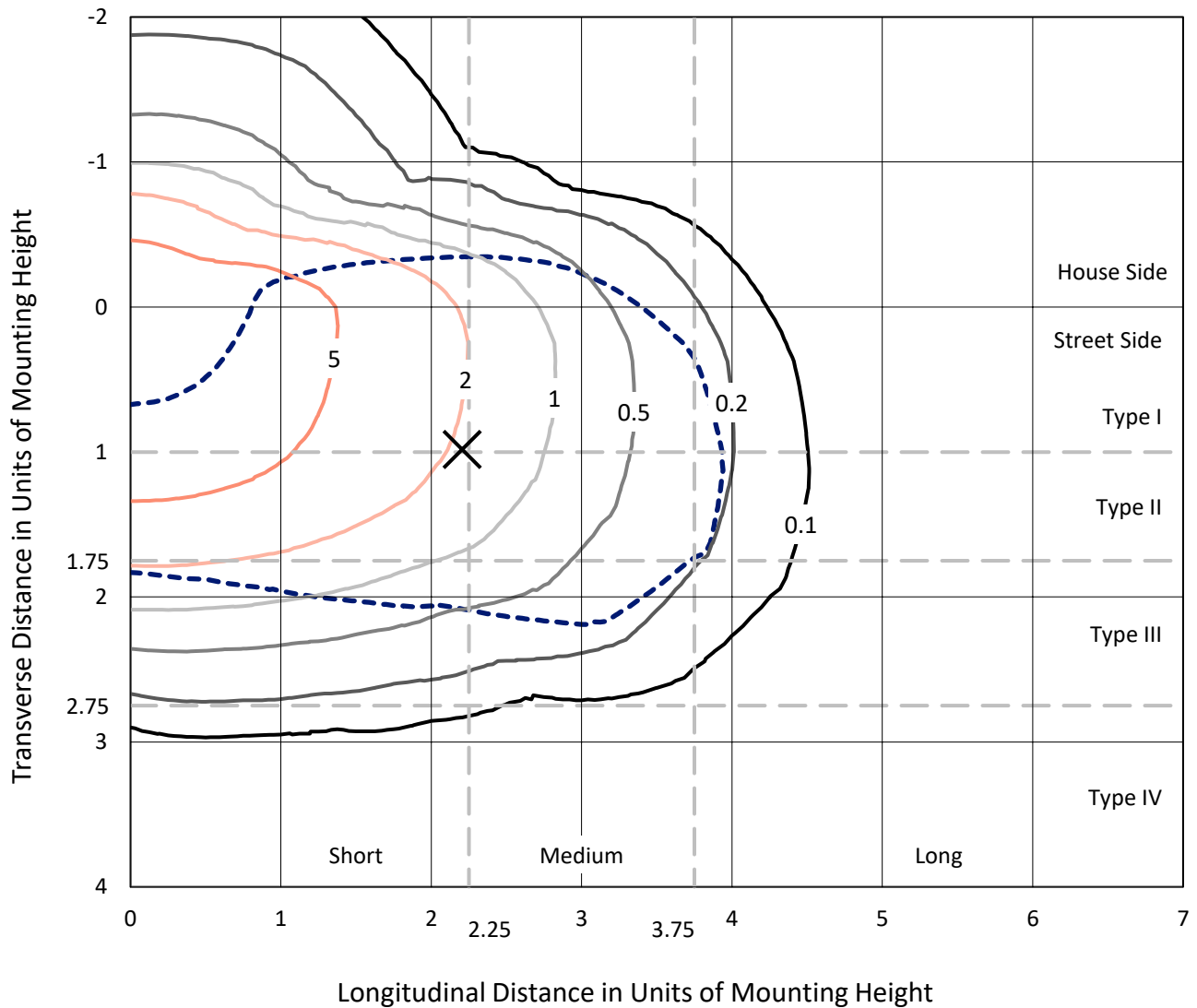
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

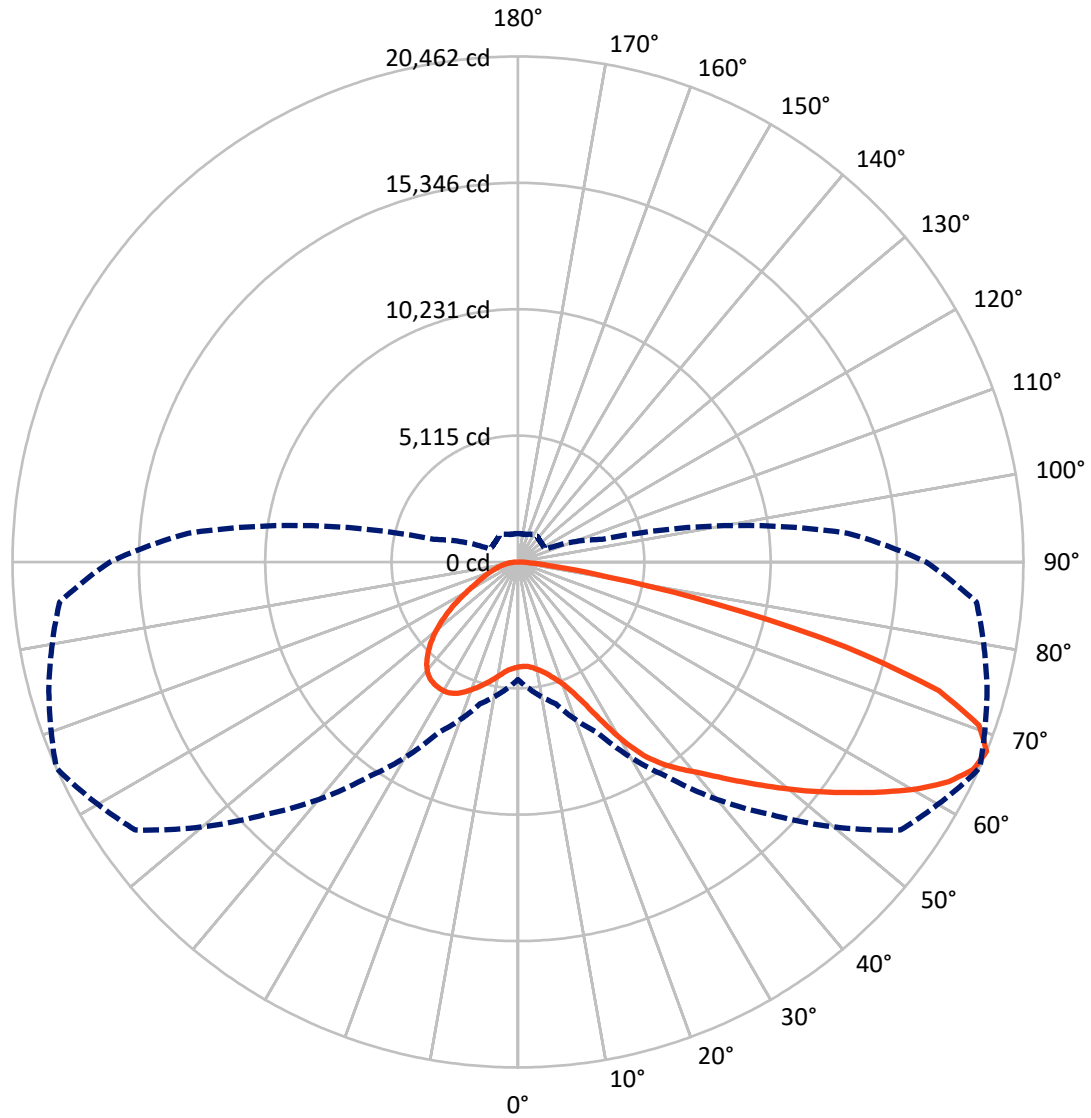
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9530.9	0.0	9530.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	28800.1	0.0	28800.1
	% Fixture	75.1	0.0	75.1
Total	Lumens	38331.0	0.0	38331.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.5	1.1
10°-20°	1392.6	3.6
20°-30°	2684.2	7.0
30°-40°	4706.4	12.3
40°-50°	6996.8	18.3
50°-60°	8869.2	23.1
60°-70°	8678.3	22.6
70°-80°	4139.6	10.8
80°-90°	442.4	1.2
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°	38331.0	100.0
0°-180°	38331.0	100.0

Coefficient of Utilization



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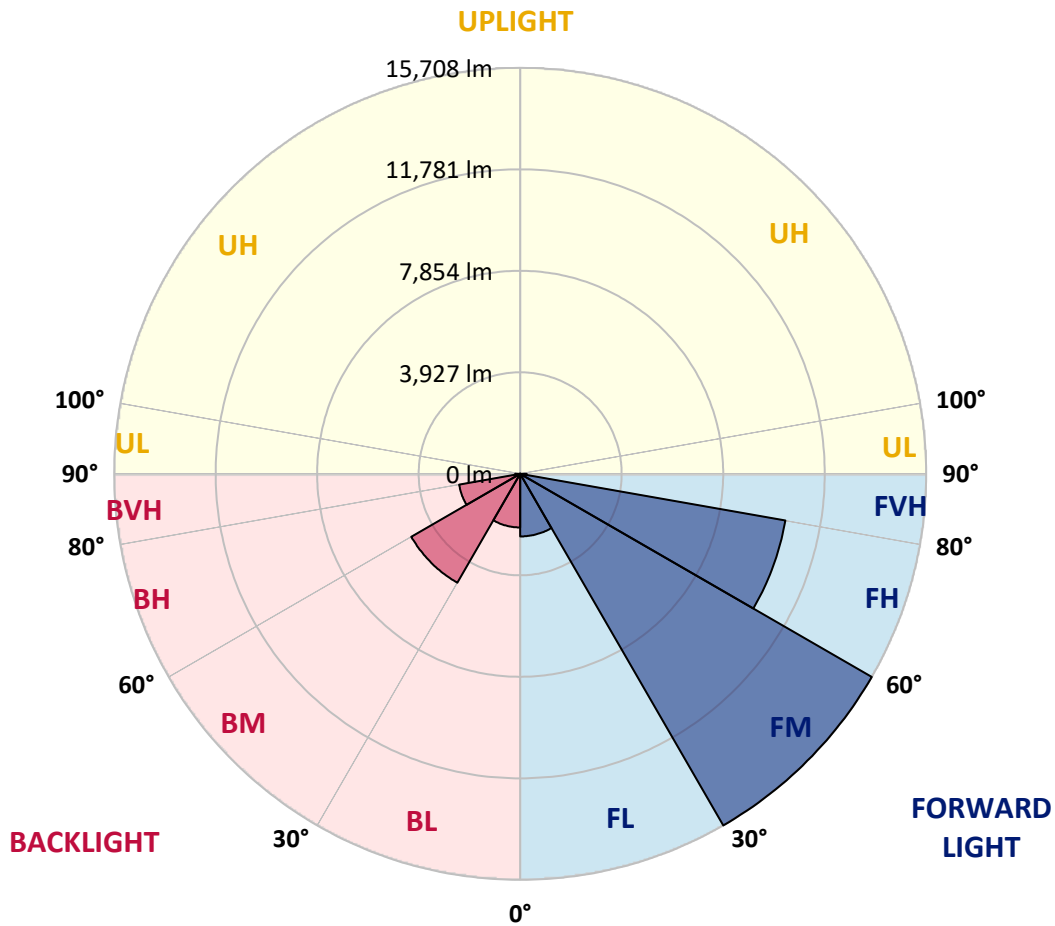
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2422.1	6.3			
FM (30°-60°)	15707.7	41.0			
FH (60°-80°)	10419.4	27.2			G4/12000
FVH (80°-90°)	250.8	0.7			G3/500
BL (0°-30°)	2076.2	5.4	B3/2500		
BM (30°-60°)	4864.7	12.7	B3/5000		
BH (60°-80°)	2398.5	6.3	B3/2500		G3/2500
BVH (80°-90°)	191.6	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4251.4	4251.4	4251.4	4251.4	4251.4	4251.4	4251.4	4251.4	4251.4	4251.4
2.5°	4207.1	4231.3	4225.2	4215.2	4213.1	4217.2	4223.2	4229.3	4227.2	4237.3
5°	4195.0	4219.2	4217.2	4217.2	4225.2	4241.3	4251.4	4261.5	4251.4	4263.5
7.5°	4203.1	4221.2	4229.3	4237.3	4257.5	4287.7	4311.8	4334.0	4321.9	4336.0
10°	4305.8	4319.9	4327.9	4327.9	4342.0	4376.3	4400.4	4440.7	4430.7	4452.8
12.5°	4493.1	4507.2	4507.2	4499.1	4509.2	4531.4	4539.4	4583.7	4565.6	4601.8
15°	4722.7	4750.9	4728.7	4714.6	4718.6	4740.8	4738.8	4773.0	4754.9	4785.1
17.5°	4976.4	5012.7	4976.4	4974.4	4966.4	4990.5	4992.5	5022.8	4990.5	5012.7
20°	5276.5	5326.9	5296.6	5306.7	5288.6	5298.7	5308.7	5353.0	5302.7	5318.8
22.5°	5699.4	5759.9	5727.6	5765.9	5753.8	5745.8	5743.7	5822.3	5743.7	5749.8
25°	6315.7	6388.2	6331.8	6384.2	6384.2	6410.4	6440.6	6541.3	6410.4	6372.1
27.5°	7226.0	7298.5	7187.7	7220.0	7209.9	7274.3	7242.1	7491.8	7350.9	7288.4
30°	8321.6	8450.5	8241.0	8233.0	8222.9	8325.6	8371.9	8537.1	8394.1	8331.6
32.5°	9505.8	9640.7	9391.0	9318.5	9280.2	9342.6	9304.4	9437.3	9338.6	9241.9
35°	10758.4	10891.4	10653.7	10512.7	10359.7	10228.8	10091.8	10126.1	10033.4	9886.4
37.5°	11942.6	12186.3	11934.6	11783.5	11501.6	11245.8	10863.2	10704.1	10617.5	10482.5
40°	13149.0	13287.9	13096.6	12967.7	12661.6	12260.8	11648.6	11312.3	11195.5	11064.6
42.5°	14037.1	14170.0	14067.3	13978.7	13739.1	13273.8	12482.4	12061.5	11892.3	11745.3
45°	14742.0	14840.7	14776.2	14808.5	14705.7	14254.6	13346.3	12865.0	12689.8	12510.6
47.5°	15026.0	15130.7	15233.4	15424.7	15599.9	15267.6	14274.8	13735.0	13549.7	13366.5
50°	14993.7	15100.5	15398.5	15805.4	16349.1	16238.3	15253.5	14661.4	14490.3	14280.8
52.5°	14736.0	14856.8	15239.4	15916.1	16782.1	16965.4	16250.4	15618.1	15456.9	15207.2
55°	14059.3	14131.8	14705.7	15664.4	16884.8	17472.9	17227.2	16637.1	16476.0	16127.6
57.5°	12804.6	12909.3	13745.1	14985.7	16627.0	17817.3	18085.1	17708.5	17553.4	17052.0
60°	11167.3	11334.4	12291.0	13845.8	15970.5	17815.3	18864.5	18761.8	18632.9	17962.3
62.5°	9314.4	9507.8	10428.1	12234.6	14822.6	17309.8	19351.9	19643.9	19577.5	18802.1
65°	7153.5	7286.4	8202.8	10150.2	13036.2	16224.3	19408.3	20246.1	20258.2	19440.5
67.5°	4763.0	5145.6	5941.1	7616.7	10643.6	14450.0	18912.9	20344.8	20461.6	19660.0
70°	2324.1	2827.6	3607.0	4950.2	7616.7	11729.2	17617.9	19535.2	19795.0	19019.6
72.5°	964.7	1127.8	1552.7	2442.9	4372.3	7914.8	15015.9	17340.0	17821.3	16852.6
75°	650.5	704.9	888.1	1252.7	1991.8	3903.0	10828.9	12929.5	13704.8	12728.1
77.5°	501.5	535.7	646.5	876.1	1184.2	1476.2	5796.1	7791.9	8192.7	7584.5
80°	394.7	420.9	483.3	638.4	839.8	789.5	1975.7	3530.4	3762.0	3155.8
82.5°	342.4	352.4	346.4	433.0	557.9	461.2	648.5	1303.0	1437.9	1043.2
85°	247.7	275.9	288.0	267.9	296.0	233.6	265.8	461.2	507.5	453.1
87.5°	100.7	149.0	183.3	173.2	108.8	66.5	82.6	134.9	155.1	169.2
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°
4251.4	0°	4251.4	4251.4	4251.4	4251.4	4251.4	4251.4	4251.4	4251.4	4251.4	4251.4
4253.4	2.5°	4255.4	4269.5	4279.6	4291.7	4299.7	4311.8	4336.0	4350.1	4352.1	4362.2
4285.7	5°	4293.7	4313.8	4336.0	4368.2	4404.5	4434.7	4481.0	4513.2	4525.3	4535.4
4364.2	7.5°	4376.3	4404.5	4444.8	4501.1	4553.5	4593.8	4650.2	4688.4	4726.7	4740.8
4489.1	10°	4499.1	4539.4	4597.8	4674.3	4730.7	4783.1	4841.5	4873.7	4912.0	4928.1
4638.1	12.5°	4652.2	4694.5	4771.0	4877.7	4930.1	4966.4	4986.5	4978.4	4986.5	5000.6
4817.3	15°	4827.4	4873.7	4960.3	5075.1	5111.4	5079.1	5034.8	4994.6	4988.5	4992.5
5034.8	17.5°	5034.8	5069.1	5169.8	5266.4	5240.3	5107.3	5010.7	4946.2	4914.0	4903.9
5312.8	20°	5324.8	5324.8	5407.4	5467.8	5292.6	5067.1	4916.0	4811.3	4744.8	4716.6
5691.4	22.5°	5677.3	5645.1	5697.4	5655.1	5282.5	4954.3	4744.8	4563.6	4462.9	4422.6
6221.0	25°	6124.4	6086.1	6072.0	5810.2	5210.0	4775.0	4434.7	4215.2	4126.6	4104.4
6984.3	27.5°	6799.0	6702.4	6519.1	5894.8	5077.1	4493.1	4072.2	3868.8	3818.4	3820.4
7965.1	30°	7697.3	7503.9	7054.8	5908.9	4859.6	4094.3	3701.6	3556.6	3532.4	3542.5
8788.8	32.5°	8529.0	8345.7	7602.6	5844.4	4525.3	3703.6	3369.3	3272.6	3236.4	3248.5
9417.2	35°	9181.5	9131.2	8110.1	5753.8	4114.5	3337.1	3071.2	2988.7	2918.2	2902.1
10009.3	37.5°	9797.8	9777.6	8490.7	5626.9	3707.7	3077.3	2831.6	2722.8	2620.1	2563.7
10663.8	40°	10474.5	10454.3	8740.5	5431.6	3347.2	2851.7	2616.1	2473.1	2346.2	2243.5
11404.9	42.5°	11235.7	11116.9	8859.3	5151.6	3041.0	2660.4	2440.9	2247.6	2080.4	1985.7
12242.7	45°	12067.5	11799.6	8857.3	4795.2	2783.3	2485.2	2253.6	1979.7	1824.6	1736.0
13102.7	47.5°	12949.6	12452.2	8748.5	4400.4	2533.5	2291.9	1963.6	1754.1	1651.4	1597.0
14037.1	50°	13859.9	13062.4	8563.2	3947.3	2277.8	2072.3	1782.3	1639.3	1560.8	1510.5
14963.5	52.5°	14715.8	13616.2	8339.7	3433.8	2018.0	1858.9	1701.8	1591.0	1508.4	1452.0
15861.7	55°	15511.3	14093.5	8023.5	2908.1	1806.5	1715.9	1663.5	1570.9	1476.2	1409.8
16774.1	57.5°	16218.2	14403.7	7477.7	2414.7	1655.5	1617.2	1623.2	1536.6	1427.9	1371.5
17672.3	60°	16806.3	14631.2	6670.1	1957.5	1532.6	1520.5	1560.8	1472.2	1345.3	1280.9
18431.5	62.5°	17158.7	14627.2	5679.3	1603.1	1427.9	1431.9	1478.2	1391.6	1262.7	1202.3
18828.3	65°	17128.5	14268.7	4591.8	1371.5	1327.2	1331.2	1391.6	1303.0	1194.3	1158.0
18628.9	67.5°	16522.3	13394.7	3522.4	1220.4	1216.4	1234.5	1305.0	1242.6	1152.0	1147.9
17440.7	70°	14881.0	11580.1	2537.6	1099.6	1101.6	1127.8	1220.4	1204.3	1129.8	1137.9
14663.5	72.5°	11932.6	8829.1	1703.8	972.7	974.7	1017.0	1139.9	1174.1	1107.7	1214.4
10404.0	75°	7947.0	5506.1	1095.6	837.8	839.8	894.2	1069.4	1115.7	1047.2	1210.4
5413.5	77.5°	3818.4	2475.1	793.5	704.9	704.9	755.2	924.4	998.9	892.2	940.5
1740.0	80°	1319.1	930.4	624.3	567.9	555.8	590.1	779.4	866.0	769.3	708.9
567.9	82.5°	519.6	483.3	501.5	441.1	400.8	422.9	606.2	714.9	565.9	511.5
320.2	85°	298.1	314.2	354.5	292.0	231.6	259.8	445.1	513.6	427.0	376.6
104.7	87.5°	80.6	110.8	163.1	151.0	104.7	110.8	211.5	284.0	245.7	189.3
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>
4251.4
4360.2
4533.4
4742.8
4936.2
5004.6
5006.6
4918.0
4710.6
4416.6
4108.4
3826.5
3576.7
3264.6
2914.2
2565.8
2253.6
1991.8
1732.0
1585.0
1492.3
1427.9
1383.6
1335.2
1252.7
1184.2
1156.0
<i>1154.0</i>
1135.9
1230.5
1220.4
862.0
664.6
509.5
384.7
195.4
0.0

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