

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: P949951

Luminaire Tested: **GALN-SB4C-750-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949951  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-750-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

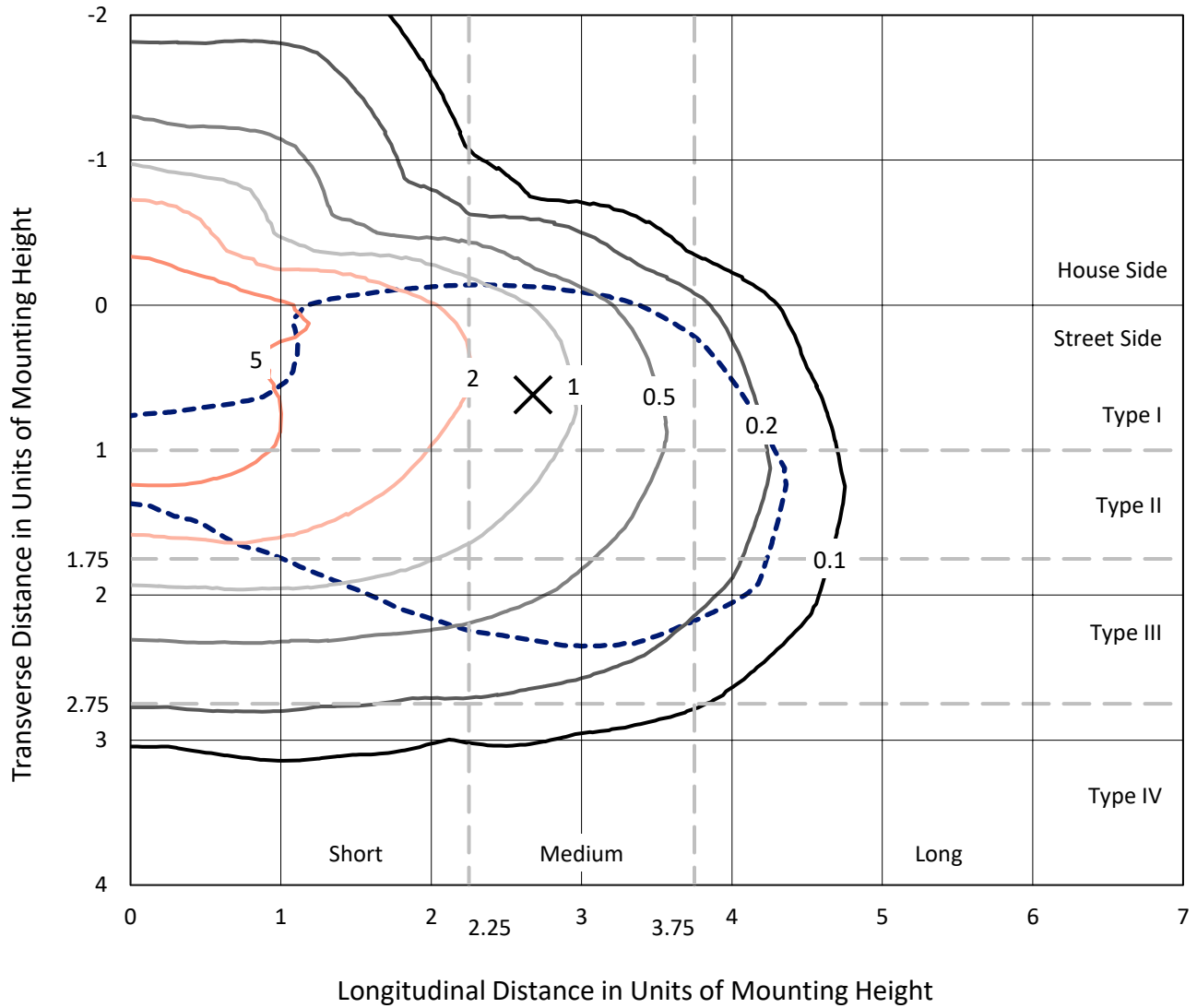
Lumens per Lamp: N/A  
Luminaire Lumens: 32599 lumens  
Efficiency: N/A  
Efficacy: 162.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

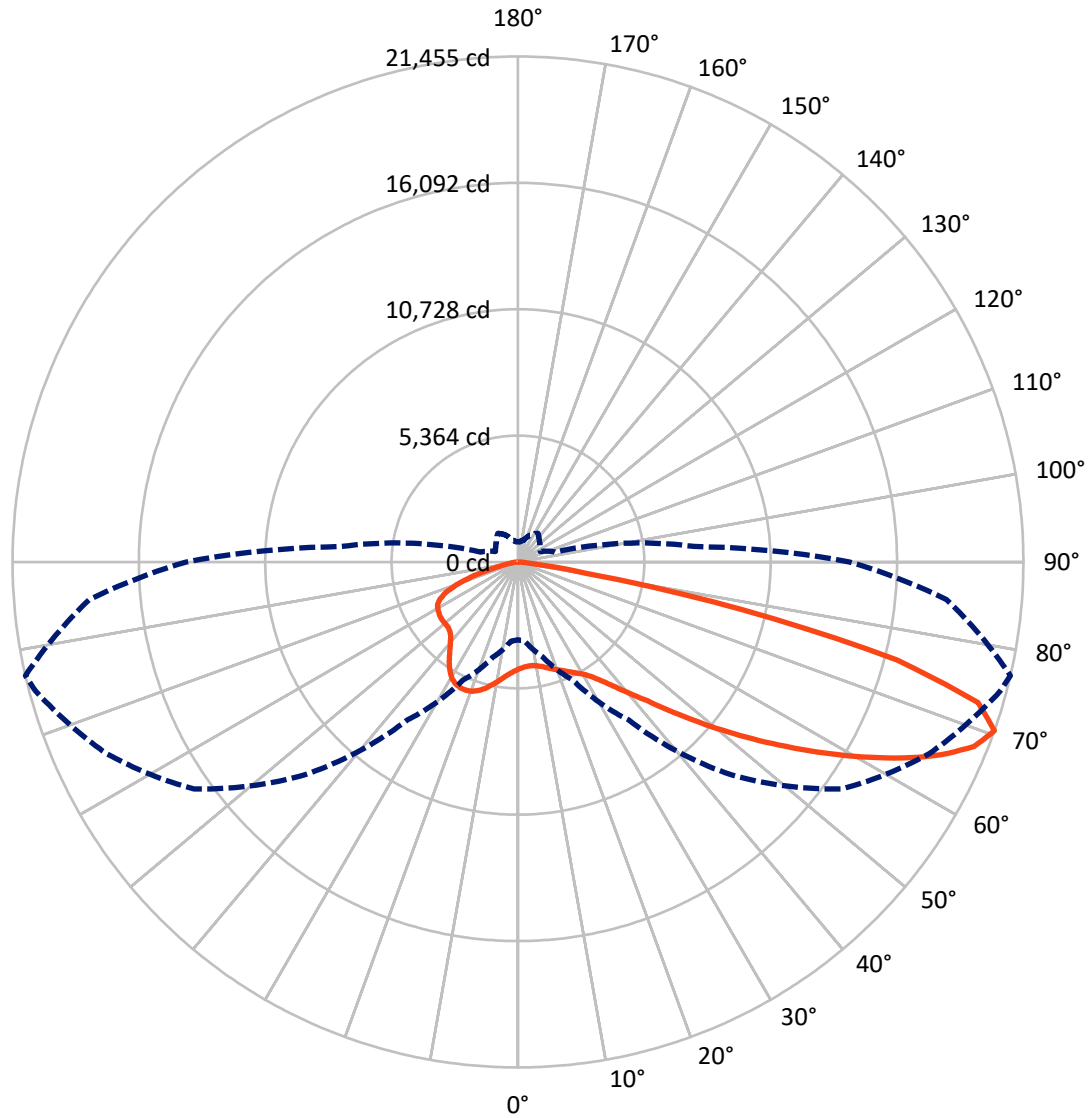
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7138.7	0.0	7138.7
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	25460.3	0.0	25460.3
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	32599.0	0.0	32599.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.7	1.3
10°-20°	1251.8	3.8
20°-30°	2140.8	6.6
30°-40°	3442.6	10.6
40°-50°	5374.8	16.5
50°-60°	7179.5	22.0
60°-70°	7652.2	23.5
70°-80°	4710.7	14.5
80°-90°	412.8	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°	32599.0	100.0
0°-180°	32599.0	100.0



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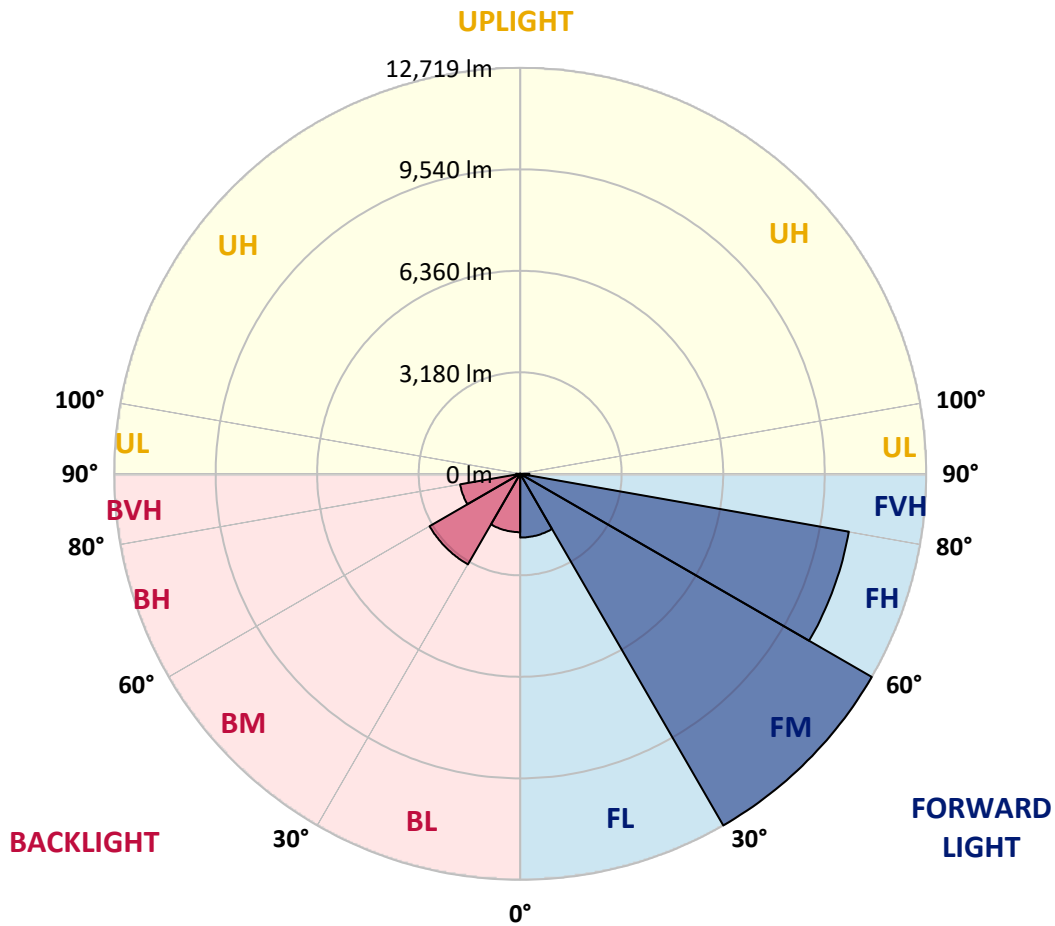
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1997.2	6.1			
FM (30°-60°)	12719.4	39.0			
FH (60°-80°)	10455.0	32.1			G4/12000
FVH (80°-90°)	288.6	0.9			G3/500
BL (0°-30°)	1829.2	5.6	B3/2500		
BM (30°-60°)	3277.5	10.1	B3/5000		
BH (60°-80°)	1907.9	5.9	B3/2500		G3/2500
BVH (80°-90°)	124.1	0.4			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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4547.9	4547.9	4547.9	4547.9	4547.9	4547.9	4547.9	4547.9	4547.9	4547.9
2.5°	4192.2	4190.6	4212.3	4219.0	4259.0	4287.4	4340.8	4397.6	4471.1	4479.4
5°	3950.2	3950.2	3975.2	4001.9	4053.7	4110.4	4192.2	4290.7	4417.6	4437.7
7.5°	3744.8	3758.2	3779.9	3831.6	3891.7	3973.5	4098.7	4239.0	4405.9	4437.7
10°	3579.5	3594.5	3621.3	3663.0	3753.2	3866.7	4030.3	4210.6	4434.3	4484.4
12.5°	3527.8	3542.8	3557.8	3589.5	3673.0	3806.6	4001.9	4224.0	4502.8	4552.9
15°	3648.0	3666.3	3654.6	3646.3	3689.7	3811.6	4015.3	4272.4	4587.9	4659.7
17.5°	3925.1	3931.8	3905.1	3826.6	3819.9	3885.0	4078.7	4339.2	4694.8	4773.2
20°	4372.6	4360.9	4305.8	4150.5	4062.0	4048.7	4187.2	4439.3	4805.0	4888.4
22.5°	4980.3	4966.9	4856.7	4611.3	4414.3	4284.1	4344.2	4569.6	4928.5	5022.0
25°	5738.2	5719.9	5557.9	5224.0	4918.5	4596.3	4557.9	4741.5	5080.4	5167.3
27.5°	6623.1	6608.1	6432.8	5992.0	5551.3	5023.7	4823.3	4943.5	5239.1	5337.6
30°	7574.8	7618.2	7307.6	6833.5	6275.8	5581.3	5180.6	5192.3	5444.4	5532.9
32.5°	8693.4	8768.5	8394.5	7793.5	7032.2	6187.4	5631.4	5539.6	5743.3	5816.7
35°	9801.9	9887.1	9576.5	8912.1	8035.6	6901.9	6102.2	5938.6	6140.6	6220.7
37.5°	10760.3	10873.8	10713.5	10135.8	9109.1	7763.4	6716.6	6407.7	6629.8	6730.0
40°	11516.6	11690.2	11678.5	11317.9	10374.6	8808.6	7496.3	6987.1	7237.5	7346.0
42.5°	12131.0	12281.2	12411.4	12393.1	11695.2	9995.6	8412.9	7740.0	7930.4	8055.6
45°	12555.0	12715.3	12995.8	13298.0	12965.7	11266.1	9463.0	8633.3	8806.9	8995.5
47.5°	12934.0	13116.0	13480.0	13959.1	14044.3	12541.7	10613.3	9673.4	9832.0	10027.3
50°	12967.4	13124.3	13688.7	14368.2	14810.6	13767.1	11848.8	10840.4	10989.0	11197.7
52.5°	12161.0	12408.1	13393.1	14356.5	15162.9	14792.2	13075.9	12054.2	12221.1	12471.5
55°	9439.6	9801.9	12526.6	13909.0	15037.6	15455.0	14242.9	13344.7	13558.4	13820.5
57.5°	8130.7	8289.3	9943.8	13094.3	14466.7	15627.0	15228.0	14648.6	14992.6	15279.7
60°	7307.6	7439.5	8417.9	11827.1	13715.4	15354.9	15989.3	15864.1	16458.4	16800.7
62.5°	6426.1	6551.3	7441.2	9875.4	12753.7	14902.4	16470.1	16986.0	17961.0	18335.0
65°	5551.3	5658.1	6511.3	8297.7	11531.6	14450.0	16718.9	17956.0	19351.8	19739.1
67.5°	4576.2	4664.7	5471.1	7000.4	10045.7	13830.6	16842.4	18719.0	20562.2	20894.4
70°	3302.4	3370.8	4203.9	5536.2	8180.8	12765.4	16792.3	19259.9	21189.9	21455.4
72.5°	1561.0	1622.8	2601.2	3594.5	5778.3	10691.8	15778.9	18830.9	20552.2	20420.3
75°	833.1	886.5	1494.2	1971.7	3051.9	7329.3	12912.3	16221.4	17258.2	16617.0
77.5°	564.3	606.0	924.9	1183.7	1394.1	3479.3	8299.3	11231.1	10805.3	9746.8
80°	447.4	490.8	758.0	801.4	674.5	1257.2	3429.3	5199.0	3734.8	2986.8
82.5°	343.9	392.3	637.8	581.0	367.3	515.9	998.4	1644.5	956.7	727.9
85°	210.4	262.1	500.9	370.6	207.0	235.4	338.9	457.5	292.2	243.8
87.5°	106.9	150.3	253.8	135.2	93.5	55.1	90.2	90.2	76.8	66.8
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°
4547.9	0°	4547.9	4547.9	4547.9	4547.9	4547.9	4547.9	4547.9	4547.9	4547.9	4547.9
4524.5	2.5°	4564.6	4597.9	4654.7	4708.1	4749.9	4789.9	4830.0	4851.7	4858.4	4885.1
4549.5	5°	4618.0	4679.8	4789.9	4893.5	4958.6	4998.6	5027.0	5043.7	5047.1	5055.4
4618.0	7.5°	4716.5	4815.0	4968.6	5072.1	5120.5	5117.2	5105.5	5063.7	5047.1	5032.0
4718.2	10°	4855.1	4985.3	5173.9	5245.7	5215.7	5135.5	5032.0	4910.2	4853.4	4798.3
4855.1	12.5°	5027.0	5192.3	5377.6	5374.3	5225.7	5020.3	4779.9	4592.9	4474.4	4389.3
5023.7	15°	5235.7	5426.0	5568.0	5454.4	5128.9	4759.9	4407.6	4163.9	4057.0	3963.5
5194.0	17.5°	5451.1	5654.8	5719.9	5429.4	4885.1	4374.2	3975.2	3783.2	3678.0	3627.9
5377.6	20°	5661.4	5863.5	5810.0	5285.8	4514.5	3936.8	3581.2	3476.0	3454.3	3466.0
5556.3	22.5°	5883.5	6063.8	5828.4	5008.7	4042.0	3489.4	3294.0	3297.4	3345.8	3380.8
5743.3	25°	6110.6	6232.4	5780.0	4608.0	3534.4	3160.5	3112.0	3165.5	3260.6	3329.1
5953.6	27.5°	6329.3	6382.7	5674.8	4112.1	3098.7	2925.1	2933.4	3043.6	3187.2	3282.3
6209.1	30°	6576.4	6516.3	5472.8	3554.5	2796.5	2723.0	2793.2	2921.7	3065.3	3150.4
6531.3	32.5°	6855.2	6631.5	5152.2	3038.6	2582.8	2561.1	2676.3	2759.8	2823.2	2848.3
6958.7	35°	7202.4	6793.4	4741.5	2676.3	2390.8	2442.6	2552.7	2511.0	2486.0	2472.6
7533.0	37.5°	7653.2	7012.1	4260.7	2440.9	2235.5	2357.4	2402.5	2272.3	2173.8	2125.3
8229.2	40°	8195.8	7332.7	3798.2	2258.9	2137.0	2283.9	2205.5	2048.5	1923.3	1854.9
9012.2	42.5°	8798.5	7668.2	3409.2	2122.0	2081.9	2223.8	2060.2	1873.2	1671.2	1649.5
9945.5	45°	9431.3	8013.8	3143.8	2016.8	2055.2	2172.1	1976.7	1674.6	1531.0	1619.5
10882.1	47.5°	10064.1	8331.1	2983.5	1938.3	2041.9	2113.7	1903.3	1564.4	1462.5	1591.1
11885.5	50°	10768.6	8614.9	2911.7	1881.6	2026.8	2090.3	1793.1	1536.0	1390.7	1475.9
12924.0	52.5°	11468.1	8835.3	2858.3	1824.8	2005.1	2071.9	1739.7	1502.6	1303.9	1308.9
13969.1	55°	12166.0	8978.8	2799.8	1749.7	1956.7	2031.8	1734.7	1465.9	1238.8	1215.4
15074.4	57.5°	12910.6	9060.7	2728.0	1666.2	1873.2	1930.0	1729.7	1437.5	1218.8	1180.4
16204.7	60°	13668.6	9180.9	2634.6	1564.4	1761.4	1808.1	1718.0	1427.5	1207.1	1142.0
17269.8	62.5°	14348.1	9222.6	2522.7	1467.5	1617.8	1687.9	1692.9	1419.1	1175.4	1063.5
18154.7	65°	14793.9	9042.3	2327.4	1357.3	1462.5	1564.4	1644.5	1390.7	1118.6	1006.7
18592.1	67.5°	14775.5	8528.1	2021.8	1215.4	1312.3	1427.5	1574.4	1342.3	1050.1	936.6
18261.6	70°	14087.7	7513.0	1634.5	1050.1	1147.0	1280.5	1484.2	1270.5	968.3	859.8
16238.1	72.5°	12082.5	5880.2	1187.1	856.5	955.0	1128.6	1367.4	1183.7	884.9	791.4
12000.7	75°	8631.6	3721.4	804.7	657.8	743.0	956.7	1222.1	1081.9	808.1	794.7
6010.4	77.5°	4409.3	1778.1	532.6	480.8	517.6	754.6	1026.8	966.7	819.7	656.1
1709.6	80°	1434.1	656.1	335.6	327.2	343.9	502.5	794.7	793.0	621.1	445.8
414.0	82.5°	457.5	282.2	218.7	210.4	202.0	315.5	554.3	627.8	419.1	282.2
148.6	85°	182.0	168.6	128.6	118.5	85.1	148.6	290.5	417.4	312.2	203.7
38.4	87.5°	66.8	66.8	35.1	25.0	18.4	50.1	78.5	125.2	178.6	105.2
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>
4547.9
4900.1
5068.8
5035.4
4781.6
4369.2
3953.5
3643.0
3461.0
3389.2
3347.5
3305.7
3170.5
2861.6
2486.0
2137.0
1859.9
1671.2
1666.2
1651.2
1539.3
1344.0
1232.1
1185.4
1147.0
1063.5
1006.7
941.6
869.8
786.4
749.6
584.3
394.0
280.5
208.7
103.5
0.0

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