

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: P942397

Luminaire Tested: **GALN-SB6B-850-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942397  
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-SB6B-850-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

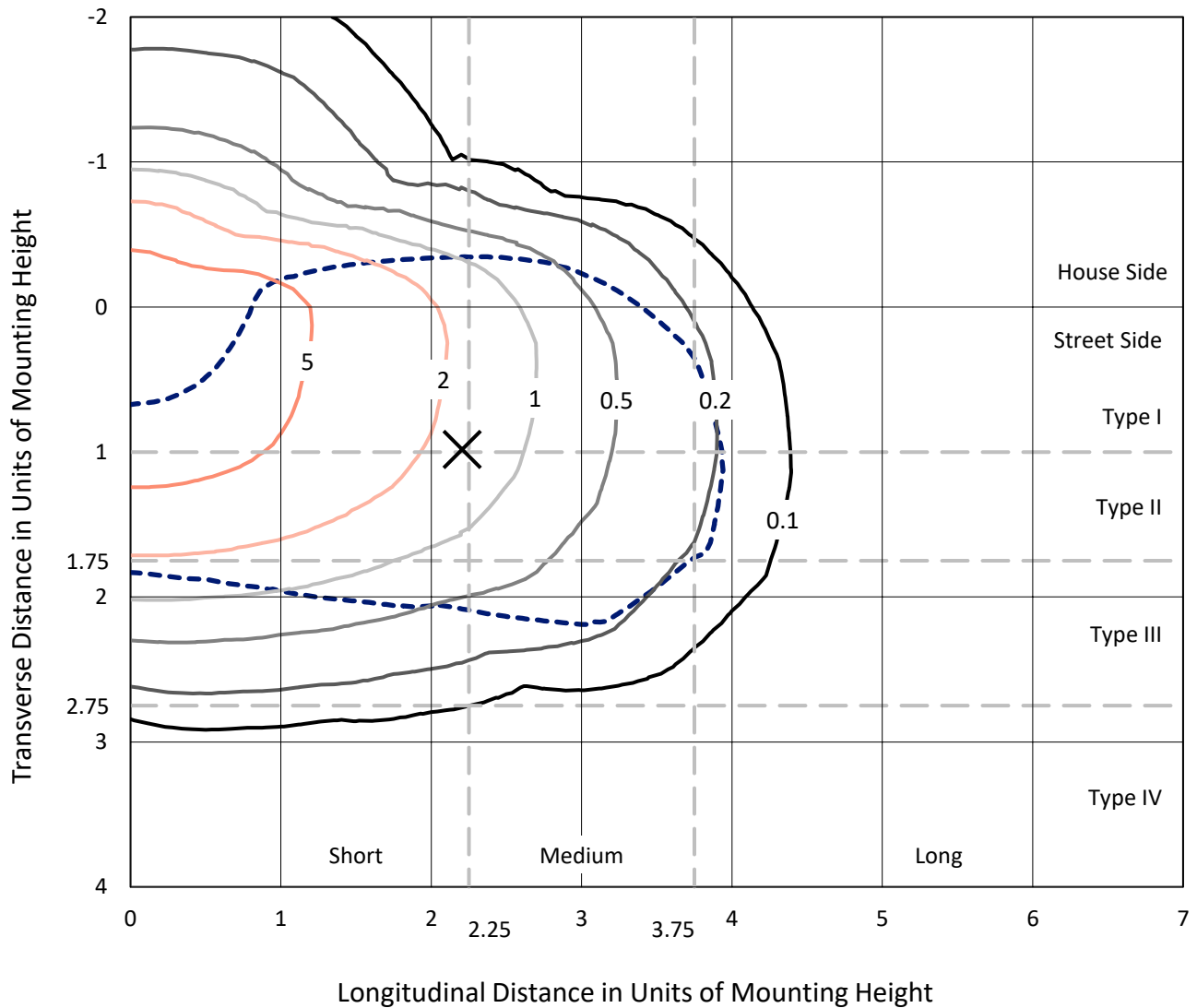
Lumens per Lamp: N/A  
Luminaire Lumens: 32684 lumens  
Efficiency: N/A  
Efficacy: 148.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

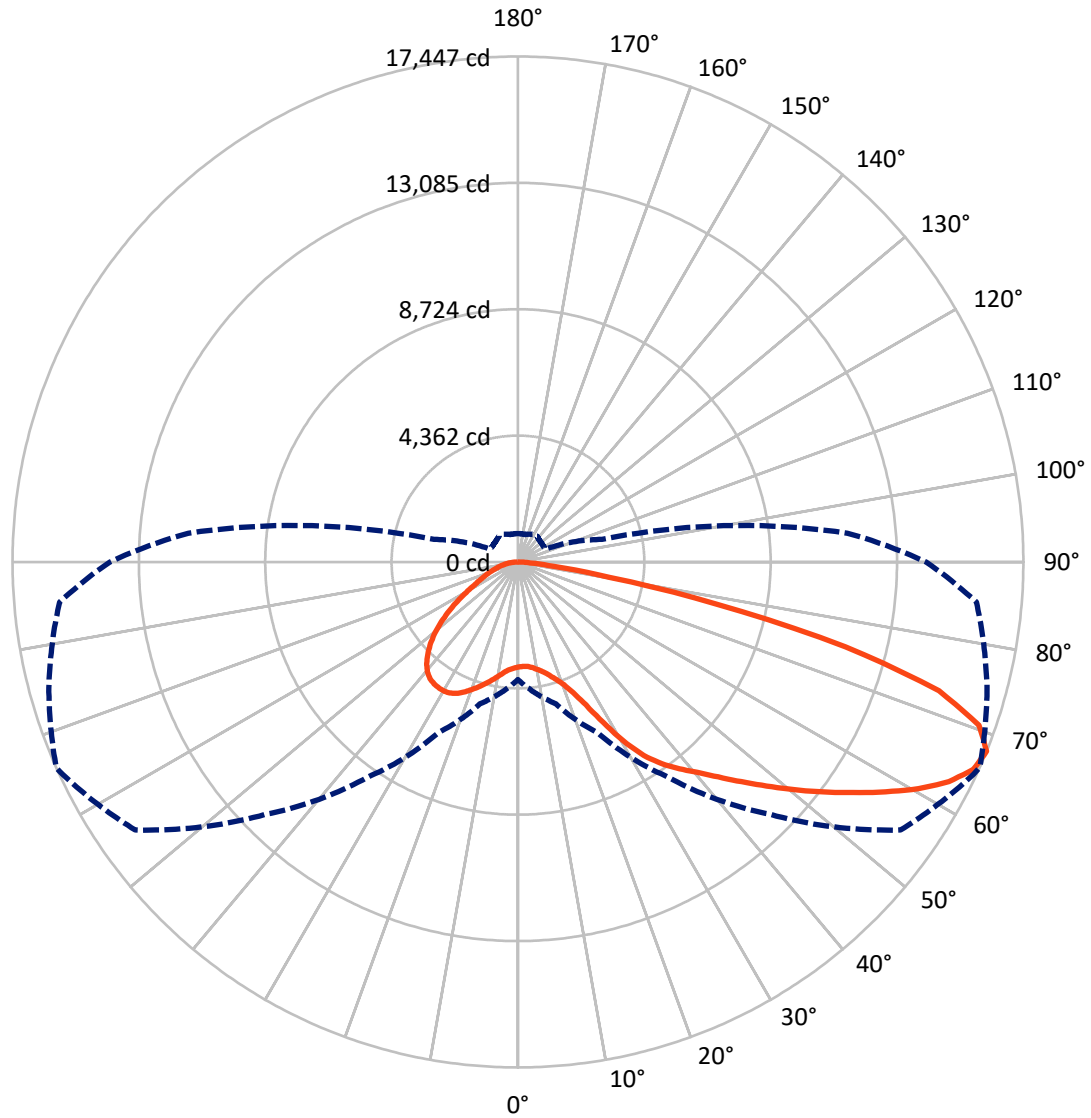
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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
<b>House Side</b>	Lumens	8126.8	0.0	8126.8
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	24557.2	0.0	24557.2
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	32684.0	0.0	32684.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.4	1.1
10°-20°	1187.5	3.6
20°-30°	2288.8	7.0
30°-40°	4013.0	12.3
40°-50°	5966.0	18.3
50°-60°	7562.6	23.1
60°-70°	7399.8	22.6
70°-80°	3529.8	10.8
80°-90°	377.2	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°	32684.0	100.0
0°-180°	32684.0	100.0

**Coefficient of Utilization**



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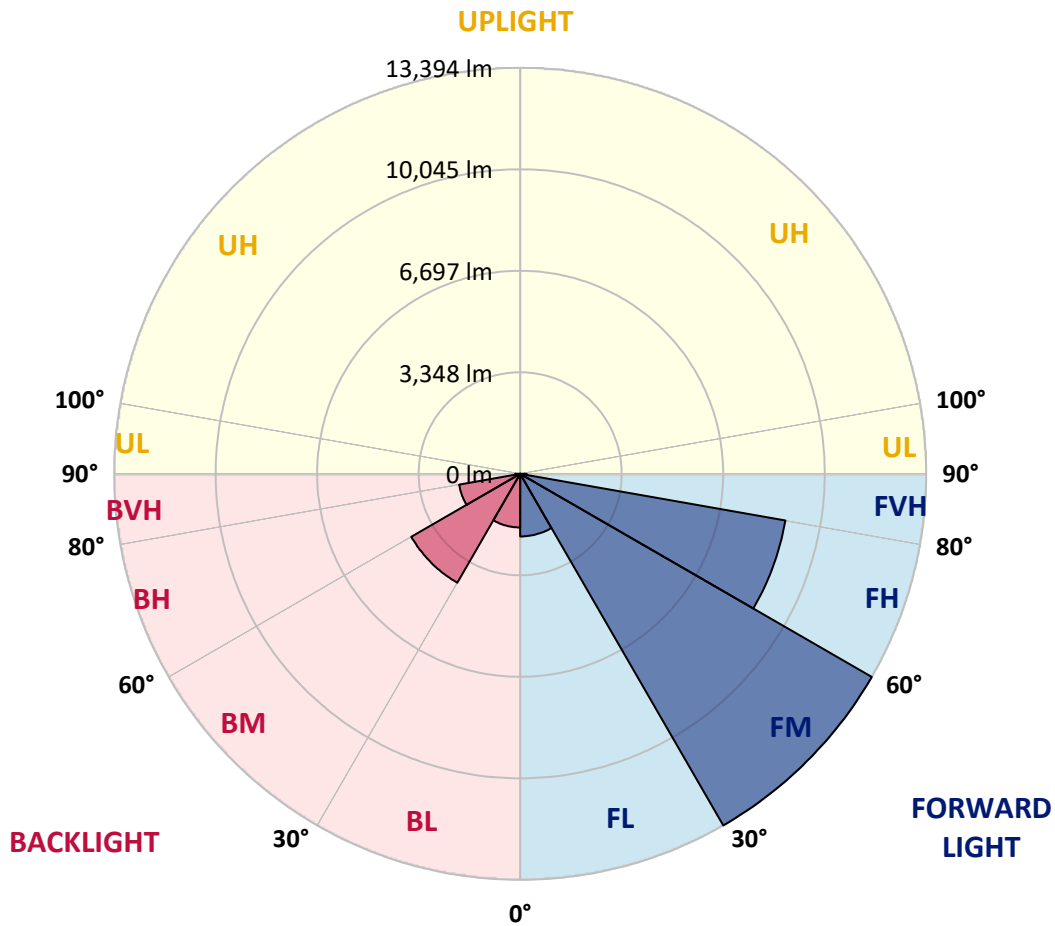
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2065.3	6.3			
FM (30°-60°)	13393.6	41.0			
FH (60°-80°)	8884.4	27.2			G4/12000
FVH (80°-90°)	213.9	0.7			G2/225
BL (0°-30°)	1770.3	5.4	B3/2500		
BM (30°-60°)	4148.0	12.7	B3/5000		
BH (60°-80°)	2045.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	163.4	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°	3625.1	3625.1	3625.1	3625.1	3625.1	3625.1	3625.1	3625.1	3625.1	3625.1
2.5°	3587.3	3607.9	3602.8	3594.2	3592.5	3595.9	3601.0	3606.2	3604.5	3613.1
5°	3577.0	3597.6	3595.9	3595.9	3602.8	3616.5	3625.1	3633.7	3625.1	3635.4
7.5°	3583.9	3599.3	3606.2	3613.1	3630.2	3656.0	3676.6	3695.5	3685.2	3697.2
10°	3671.5	3683.5	3690.3	3690.3	3702.4	3731.6	3752.2	3786.5	3777.9	3796.8
12.5°	3831.2	3843.2	3843.2	3836.3	3844.9	3863.8	3870.7	3908.4	3893.0	3923.9
15°	4026.9	4051.0	4032.1	4020.1	4023.5	4042.4	4040.7	4069.9	4054.4	4080.2
17.5°	4243.3	4274.2	4243.3	4241.6	4234.7	4255.3	4257.0	4282.8	4255.3	4274.2
20°	4499.2	4542.1	4516.3	4524.9	4509.5	4518.1	4526.6	4564.4	4521.5	4535.2
22.5°	4859.8	4911.3	4883.8	4916.4	4906.1	4899.3	4897.6	4964.5	4897.6	4902.7
25°	5385.3	5447.1	5399.0	5443.6	5443.6	5466.0	5491.7	5577.6	5466.0	5433.3
27.5°	6161.4	6223.3	6128.8	6156.3	6147.7	6202.7	6175.2	6388.1	6267.9	6214.7
30°	7095.6	7205.5	7026.9	7020.1	7011.5	7099.1	7138.6	7279.4	7157.4	7104.2
32.5°	8105.4	8220.4	8007.5	7945.7	7913.0	7966.3	7933.6	8047.0	7962.8	7880.4
35°	9173.5	9286.8	9084.2	8964.0	8833.5	8721.8	8605.1	8634.3	8555.3	8429.9
37.5°	10183.2	10391.0	10176.3	10047.6	9807.1	9589.1	9262.8	9127.1	9053.3	8938.2
40°	11211.8	11330.3	11167.2	11057.3	10796.3	10454.5	9932.5	9645.7	9546.1	9434.5
42.5°	11969.1	12082.5	11994.9	11919.3	11715.0	11318.3	10643.4	10284.5	10140.3	10014.9
45°	12570.2	12654.3	12599.4	12626.8	12539.3	12154.6	11380.1	10969.7	10820.3	10667.5
47.5°	12812.3	12901.6	12989.2	13152.3	13301.7	13018.4	12171.8	11711.6	11553.6	11397.3
50°	12784.8	12875.8	13130.0	13476.9	13940.5	13846.1	13006.4	12501.5	12355.5	12176.9
52.5°	12565.0	12668.1	12994.3	13571.3	14309.7	14466.0	13856.4	13317.2	13179.8	12966.9
55°	11988.0	12049.9	12539.3	13356.7	14397.3	14898.7	14689.2	14186.1	14048.7	13751.6
57.5°	10918.2	11007.5	11720.1	12778.0	14177.5	15192.4	15420.8	15099.7	14967.4	14539.8
60°	9522.1	9664.6	10480.3	11806.0	13617.7	15190.7	16085.4	15997.8	15887.9	15316.0
62.5°	7942.2	8107.1	8891.9	10432.2	12638.9	14759.7	16500.9	16749.9	16693.3	16032.1
65°	6099.6	6213.0	6994.3	8654.9	11115.7	13834.1	16549.0	17263.4	17273.7	16576.5
67.5°	4061.3	4387.5	5065.8	6494.6	9075.6	12321.2	16126.6	17347.5	17447.1	16763.7
70°	1981.7	2411.0	3075.6	4221.0	6494.6	10001.2	15022.4	16657.2	16878.7	16217.6
72.5°	822.6	961.7	1324.0	2083.0	3728.1	6748.7	12803.7	14785.4	15195.8	14369.8
75°	554.7	601.0	757.3	1068.1	1698.3	3328.0	9233.6	11024.7	11685.8	10852.9
77.5°	427.6	456.8	551.2	747.0	1009.7	1258.7	4942.2	6644.0	6985.7	6467.1
80°	336.6	358.9	412.1	544.4	716.1	673.2	1684.6	3010.3	3207.8	2690.9
82.5°	291.9	300.5	295.4	369.2	475.7	393.2	553.0	1111.1	1226.1	889.5
85°	211.2	235.3	245.6	228.4	252.4	199.2	226.7	393.2	432.7	386.4
87.5°	85.9	127.1	156.3	147.7	92.7	56.7	70.4	115.1	132.2	144.2
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°
3625.1	0°	3625.1	3625.1	3625.1	3625.1	3625.1	3625.1	3625.1	3625.1	3625.1	3625.1
3626.8	2.5°	3628.5	3640.5	3649.1	3659.4	3666.3	3676.6	3697.2	3709.2	3710.9	3719.5
3654.3	5°	3661.1	3678.3	3697.2	3724.7	3755.6	3781.4	3820.9	3848.3	3858.6	3867.2
3721.3	7.5°	3731.6	3755.6	3789.9	3838.0	3882.7	3917.0	3965.1	3997.7	4030.4	4042.4
3827.7	10°	3836.3	3870.7	3920.5	3985.7	4033.8	4078.4	4128.2	4155.7	4188.3	4202.1
3954.8	12.5°	3966.8	4002.9	4068.1	4159.1	4203.8	4234.7	4251.9	4245.0	4251.9	4263.9
4107.6	15°	4116.2	4155.7	4229.6	4327.4	4358.3	4330.9	4293.1	4258.7	4253.6	4257.0
4293.1	17.5°	4293.1	4322.3	4408.1	4490.6	4468.3	4354.9	4272.5	4217.5	4190.1	4181.5
4530.1	20°	4540.4	4540.4	4610.8	4662.3	4512.9	4320.6	4191.8	4102.5	4045.8	4021.8
4852.9	22.5°	4840.9	4813.4	4858.1	4822.0	4504.3	4224.4	4045.8	3891.3	3805.4	3771.1
5304.5	25°	5222.1	5189.5	5177.5	4954.2	4442.5	4071.6	3781.4	3594.2	3518.6	3499.7
5955.4	27.5°	5797.4	5715.0	5558.7	5026.4	4329.2	3831.2	3472.3	3298.8	3255.9	3257.6
6791.7	30°	6563.3	6398.4	6015.5	5038.4	4143.7	3491.1	3156.3	3032.6	3012.0	3020.6
7494.0	32.5°	7272.5	7116.2	6482.6	4983.4	3858.6	3158.0	2872.9	2790.5	2759.6	2769.9
8029.8	35°	7828.9	7786.0	6915.3	4906.1	3508.3	2845.5	2618.8	2548.4	2488.3	2474.5
8534.7	37.5°	8354.4	8337.2	7239.9	4798.0	3161.4	2623.9	2414.4	2321.7	2234.1	2186.0
9092.8	40°	8931.4	8914.2	7452.8	4631.4	2854.0	2431.6	2230.7	2108.8	2000.6	1913.0
9724.7	42.5°	9580.5	9479.1	7554.1	4392.7	2593.0	2268.5	2081.3	1916.4	1773.9	1693.2
10439.1	45°	10289.7	10061.3	7552.4	4088.7	2373.2	2119.1	1921.6	1688.0	1555.8	1480.3
11172.3	47.5°	11041.8	10617.7	7459.7	3752.2	2160.3	1954.2	1674.3	1495.7	1408.1	1361.8
11969.1	50°	11818.0	11138.0	7301.7	3365.8	1942.2	1767.0	1519.8	1397.8	1330.9	1287.9
12759.1	52.5°	12547.9	11610.2	7111.1	2927.9	1720.7	1585.0	1451.1	1356.6	1286.2	1238.1
13525.0	55°	13226.2	12017.2	6841.5	2479.7	1540.4	1463.1	1418.4	1339.4	1258.7	1202.1
14302.9	57.5°	13828.9	12281.7	6376.1	2059.0	1411.6	1378.9	1384.1	1310.3	1217.5	1169.4
15068.8	60°	14330.3	12475.7	5687.5	1669.2	1306.8	1296.5	1330.9	1255.3	1147.1	1092.2
15716.2	62.5°	14630.9	12472.3	4842.6	1366.9	1217.5	1221.0	1260.5	1186.6	1076.7	1025.2
16054.4	65°	14605.1	12166.6	3915.3	1169.4	1131.7	1135.1	1186.6	1111.1	1018.3	987.4
15884.4	67.5°	14088.2	11421.3	3003.4	1040.6	1037.2	1052.7	1112.8	1059.5	982.3	978.8
14871.3	70°	12688.7	9874.1	2163.7	937.6	939.3	961.7	1040.6	1026.9	963.4	970.2
12503.2	72.5°	10174.6	7528.4	1452.8	829.4	831.1	867.2	972.0	1001.1	944.5	1035.5
8871.2	75°	6776.2	4694.9	934.2	714.4	716.1	762.5	911.9	951.3	893.0	1032.1
4615.9	77.5°	3255.9	2110.5	676.6	601.0	601.0	644.0	788.2	851.7	760.7	801.9
1483.7	80°	1124.8	793.4	532.3	484.3	474.0	503.2	664.6	738.4	656.0	604.5
484.3	82.5°	443.0	412.1	427.6	376.1	341.7	360.6	516.9	609.6	482.5	436.2
273.0	85°	254.2	267.9	302.2	249.0	197.5	221.5	379.5	437.9	364.1	321.1
89.3	87.5°	68.7	94.4	139.1	128.8	89.3	94.4	180.3	242.1	209.5	161.4
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>
3625.1
3717.8
3865.5
4044.1
4208.9
4267.3
4269.1
4193.5
4016.6
3765.9
3503.2
3262.8
3049.8
2783.6
2484.8
2187.8
1921.6
1698.3
1476.8
1351.5
1272.5
1217.5
1179.7
1138.5
1068.1
1009.7
985.7
<i>984.0</i>
968.5
1049.2
1040.6
735.0
566.7
434.5
328.0
166.6
0.0

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