

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: P941854

Luminaire Tested: **GALN-SB5C-830-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941854  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5C-830-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

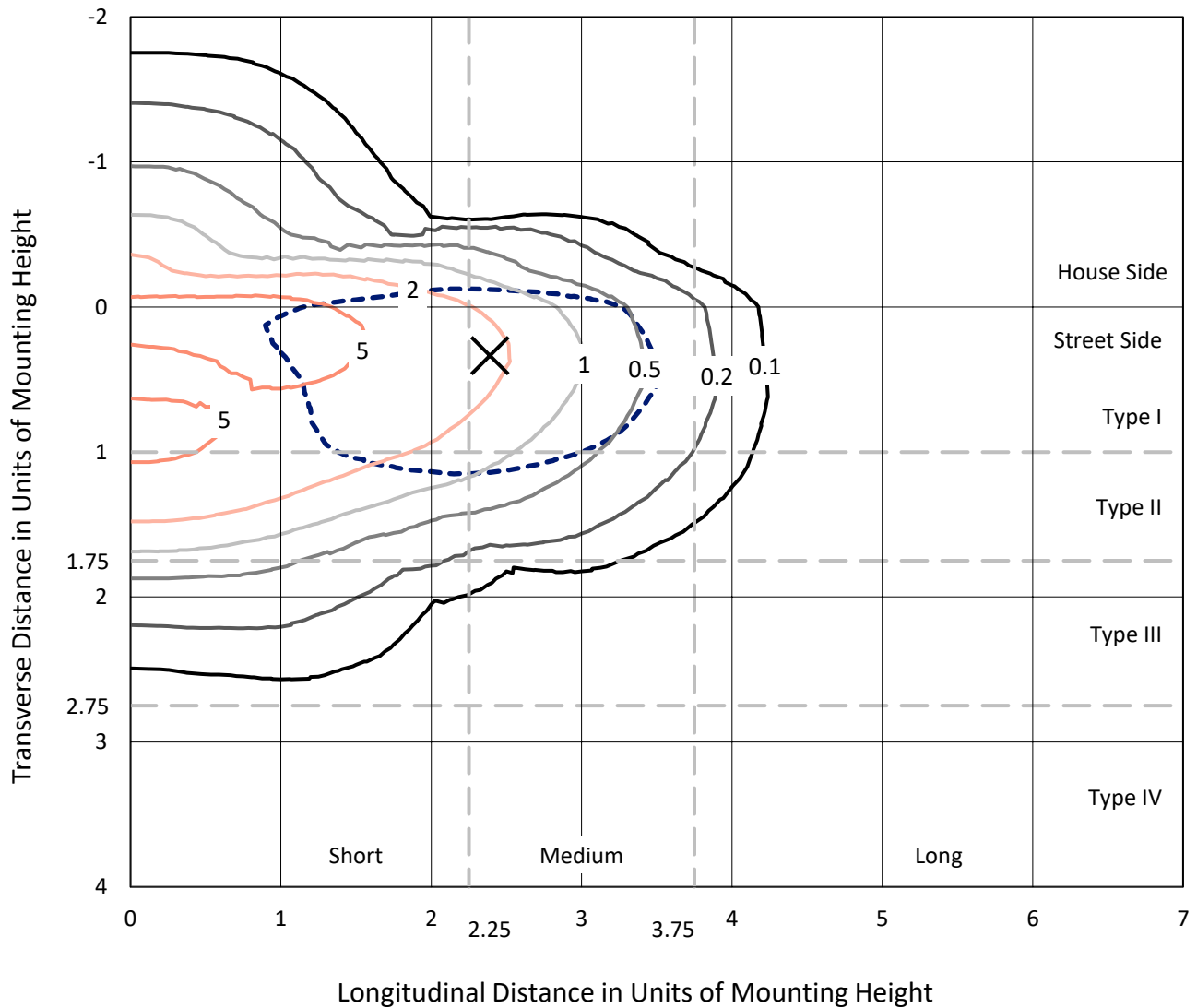
Lumens per Lamp: N/A  
Luminaire Lumens: 24822 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

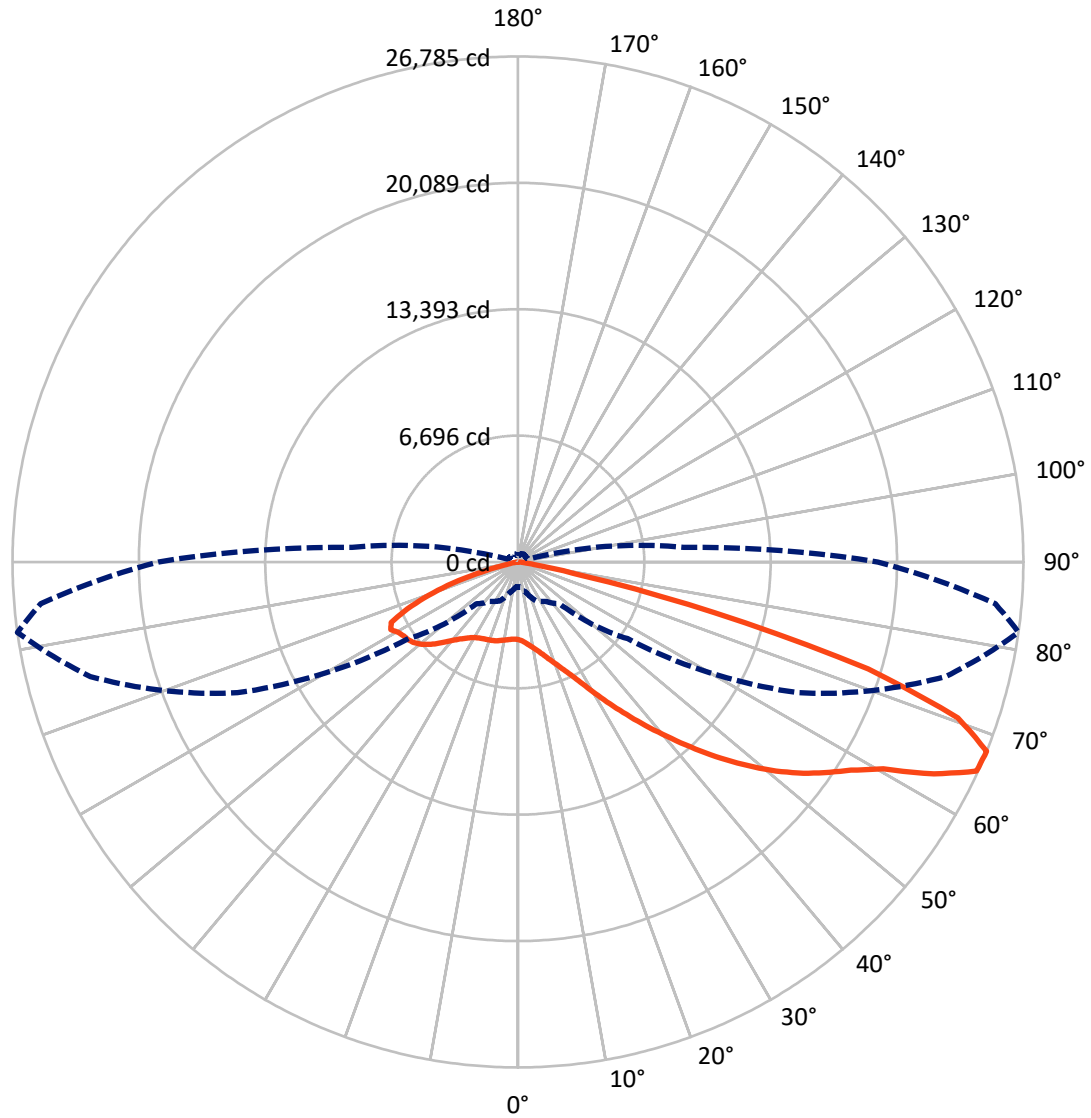
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Medium - N/A

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CATALOG NUMBER: GALN-SB5C-830-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4496.3	0.0	4496.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	20325.7	0.0	20325.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	24822.0	0.0	24822.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.4	1.5
10°-20°	952.0	3.8
20°-30°	1524.8	6.1
30°-40°	2696.4	10.9
40°-50°	4724.4	19.0
50°-60°	6301.0	25.4
60°-70°	5865.9	23.6
70°-80°	2251.3	9.1
80°-90°	139.8	0.6
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°	24822.0	100.0
0°-180°	24822.0	100.0



REPORT NUMBER: P941854

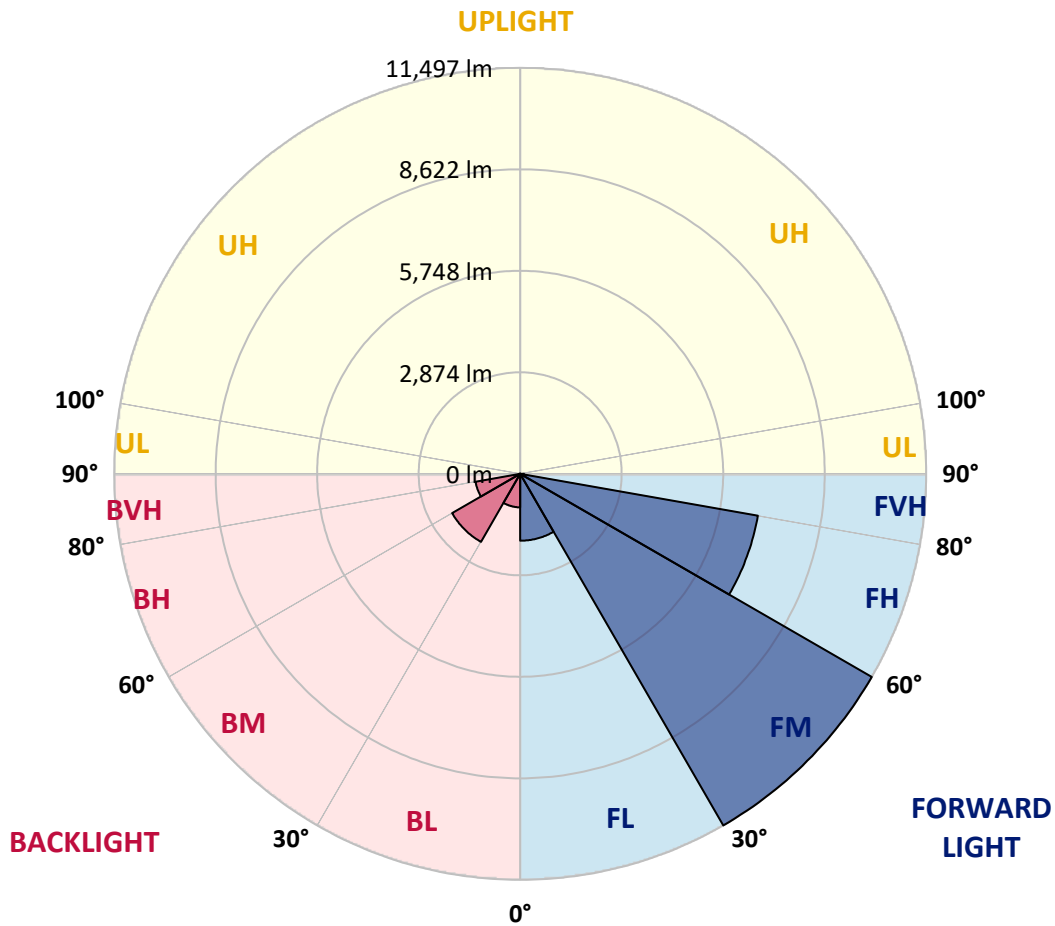
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1893.6	7.6			
FM (30°-60°)	11496.5	46.3			
FH (60°-80°)	6833.9	27.5			G3/7500
FVH (80°-90°)	101.7	0.4			G2/225
BL (0°-30°)	949.6	3.8	B2/1000		
BM (30°-60°)	2225.2	9.0	B2/2500		
BH (60°-80°)	1283.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	38.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4112.2	4112.2	4112.2	4112.2	4112.2	4112.2	4112.2	4112.2	4112.2	4112.2
2.5°	4346.3	4371.3	4357.0	4349.9	4337.3	4319.5	4305.2	4260.5	4214.0	4183.7
5°	4433.8	4458.9	4457.1	4464.2	4473.2	4478.5	4475.0	4424.9	4358.8	4307.0
7.5°	4358.8	4387.4	4410.6	4446.4	4508.9	4575.0	4607.2	4596.5	4528.6	4457.1
10°	4146.1	4176.5	4231.9	4315.9	4448.1	4591.1	4710.9	4766.3	4723.4	4644.7
12.5°	3756.5	3786.9	3895.9	4078.2	4299.8	4548.2	4777.0	4925.3	4936.0	4857.4
15°	3318.7	3349.1	3465.2	3694.0	4031.7	4430.3	4812.7	5093.3	5188.0	5120.1
17.5°	3047.0	3073.8	3161.4	3345.5	3697.6	4194.4	4800.2	5272.0	5488.2	5434.6
20°	2964.8	2988.1	3029.2	3157.8	3450.9	3949.5	4718.0	5440.0	5811.7	5781.3
22.5°	3052.4	3073.8	3086.4	3143.5	3327.6	3788.7	4614.3	5611.6	6187.0	6190.6
25°	3254.3	3275.8	3261.5	3297.2	3377.7	3738.7	4575.0	5813.5	6658.8	6698.1
27.5°	3586.8	3588.5	3554.6	3552.8	3565.3	3813.7	4616.1	6029.7	7253.9	7327.2
30°	4253.3	4226.5	4096.1	3954.9	3890.6	4038.9	4730.5	6285.3	7956.3	8086.7
32.5°	5280.9	5241.6	5002.2	4664.4	4324.8	4401.7	4936.0	6576.6	8721.2	8957.1
35°	6396.1	6385.4	6135.2	5633.0	5039.7	4918.2	5270.2	6959.0	9555.7	9931.0
37.5°	7432.6	7427.3	7284.3	6692.8	5970.8	5638.4	5806.4	7459.4	10449.3	10992.6
40°	8379.8	8395.9	8252.9	7723.9	6996.6	6562.3	6535.5	8077.8	11442.9	12148.8
42.5°	9198.3	9216.2	9071.4	8680.0	8009.9	7584.5	7430.8	8835.5	12413.3	13390.9
45°	9754.1	9864.9	9843.5	9530.7	9050.0	8608.6	8506.7	9786.3	13519.6	14708.0
47.5°	9911.4	10013.2	10174.1	10217.0	9923.9	9489.6	9611.1	10931.8	14638.3	16026.9
50°	9523.6	9618.3	9952.5	10397.5	10601.2	10467.2	10685.2	12159.6	15783.9	17342.2
52.5°	8758.7	8855.2	9276.9	9981.1	10812.1	11233.8	11762.8	13369.5	16893.7	18587.8
55°	7652.5	7754.3	8295.8	9092.9	10410.0	11550.2	12661.8	14577.5	17910.5	19708.4
57.5°	6147.7	6222.8	6785.7	7900.9	9398.5	11235.6	13324.8	15896.4	18868.4	20809.2
60°	4006.7	4072.8	4726.9	5970.8	7722.1	10184.8	13457.0	17367.2	20140.9	22240.7
62.5°	2664.6	2709.3	3097.1	4010.3	5438.2	8167.1	12683.2	18541.4	22006.6	24732.0
65°	1828.2	1872.9	2260.7	2896.9	3513.5	5402.5	10458.2	18385.9	23697.2	26710.3
67.5°	1304.6	1342.1	1671.0	2271.4	2543.1	3138.2	7089.5	16398.6	23454.2	26785.4
70°	934.7	956.1	1227.8	1769.2	2021.2	1885.4	3942.4	12542.0	20535.8	24733.8
72.5°	654.1	661.2	852.5	1347.5	1628.1	1376.1	1876.5	8361.9	15531.9	19413.5
75°	443.2	452.1	573.7	988.3	1306.4	1050.8	993.6	4483.9	9117.9	10746.0
77.5°	271.6	275.2	369.9	675.5	977.6	800.6	639.8	1899.7	3527.8	3463.4
80°	153.7	153.7	235.9	420.0	666.6	516.5	448.6	807.8	1117.0	981.1
82.5°	85.8	87.6	171.6	260.9	441.4	305.6	246.6	373.5	482.5	427.1
85°	35.7	39.3	105.4	123.3	210.9	151.9	100.1	157.3	178.7	159.1
87.5°	3.6	5.4	32.2	23.2	25.0	30.4	14.3	30.4	25.0	25.0
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°
4112.2	0°	4112.2	4112.2	4112.2	4112.2	4112.2	4112.2	4112.2	4112.2	4112.2	4112.2
4172.9	2.5°	4139.0	4112.2	4044.3	3965.6	3862.0	3811.9	3744.0	3697.6	3658.2	3661.8
4276.6	5°	4219.4	4151.5	3999.6	3810.1	3574.2	3406.3	3227.5	3104.2	3004.2	2982.7
4419.6	7.5°	4330.2	4223.0	3956.7	3615.3	3216.8	2914.8	2644.9	2471.6	2348.3	2309.0
4592.9	10°	4473.2	4317.7	3901.3	3370.5	2796.8	2412.6	2123.1	1987.3	1903.3	1874.7
4796.6	12.5°	4639.4	4426.7	3828.0	3072.1	2364.4	1994.4	1810.4	1742.4	1715.6	1706.7
5046.8	15°	4848.5	4562.5	3717.2	2718.2	1998.0	1738.9	1660.2	1651.3	1654.9	1651.3
5347.1	17.5°	5096.9	4710.9	3536.7	2353.6	1751.4	1608.4	1579.8	1587.0	1595.9	1594.1
5683.0	20°	5368.5	4857.4	3306.2	2030.2	1583.4	1515.5	1499.4	1506.5	1513.7	1510.1
6070.8	22.5°	5677.7	5014.7	3050.6	1778.2	1470.8	1429.7	1411.8	1413.6	1413.6	1406.5
6562.3	25°	6047.6	5188.0	2782.5	1599.5	1385.0	1352.9	1331.4	1324.3	1313.5	1292.1
7159.2	27.5°	6489.0	5372.1	2525.2	1474.4	1317.1	1286.7	1261.7	1243.8	1217.0	1181.3
7875.8	30°	6985.9	5595.5	2307.2	1395.7	1263.5	1233.1	1204.5	1177.7	1138.4	1093.7
8699.7	32.5°	7570.2	5835.0	2148.1	1343.9	1215.2	1183.1	1149.1	1117.0	1074.1	1029.4
9625.4	35°	8267.2	6124.5	2055.2	1308.2	1177.7	1134.8	1097.3	1061.5	1029.4	990.1
10631.6	37.5°	9023.2	6431.8	2026.6	1290.3	1152.7	1086.6	1043.7	1018.7	1015.1	991.9
11719.9	40°	9850.6	6796.4	2048.0	1279.6	1125.9	1040.1	993.6	988.3	997.2	956.1
12883.4	42.5°	10726.3	7228.9	2083.8	1267.1	1088.4	993.6	949.0	949.0	941.8	884.6
14112.9	45°	11673.5	7727.5	2119.5	1236.7	1043.7	947.2	913.2	900.7	870.3	814.9
15349.6	47.5°	12627.8	8235.1	2146.3	1181.3	990.1	907.9	877.5	848.9	804.2	754.2
16563.0	50°	13533.9	8690.8	2117.7	1099.1	929.3	870.3	838.2	798.8	750.6	716.6
17712.2	52.5°	14343.4	9085.7	1996.2	1002.6	865.0	831.0	802.4	761.3	722.0	686.3
18748.7	55°	15047.6	9405.6	1781.8	911.4	807.8	797.1	768.5	716.6	663.0	632.6
19776.3	57.5°	15723.1	9648.7	1513.7	836.4	756.0	759.5	716.6	670.2	620.1	588.0
21161.3	60°	16622.0	9973.9	1242.0	766.7	700.6	711.3	664.8	630.9	568.3	527.2
23536.4	62.5°	18058.9	10479.7	986.5	680.9	636.2	639.8	620.1	579.0	504.0	455.7
25296.7	65°	19199.0	10293.8	777.4	588.0	562.9	568.3	568.3	523.6	443.2	387.8
25391.4	67.5°	19070.4	8814.1	620.1	496.8	493.2	496.8	509.3	471.8	393.2	348.5
23457.8	70°	17567.4	7010.9	496.8	412.8	428.9	420.0	455.7	430.7	353.8	309.2
18185.7	72.5°	14334.5	5050.4	378.9	341.3	328.8	343.1	411.0	387.8	294.9	244.8
9632.6	75°	8376.2	2695.0	282.4	269.9	237.7	285.9	364.6	330.6	225.2	180.5
2952.3	77.5°	2727.1	940.0	207.3	198.4	176.9	230.5	311.0	278.8	184.1	143.0
865.0	80°	730.9	284.2	141.2	130.5	114.4	171.6	246.6	221.6	132.2	92.9
371.7	82.5°	293.1	119.7	82.2	73.3	62.5	117.9	194.8	178.7	98.3	59.0
116.2	85°	94.7	39.3	30.4	23.2	28.6	73.3	116.2	121.5	69.7	30.4
17.9	87.5°	12.5	5.4	5.4	7.1	5.4	12.5	35.7	34.0	19.7	3.6
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>
4112.2
3626.1
2934.5
2269.6
1853.2
1701.3
1649.5
1590.5
1508.3
1402.9
1288.5
1177.7
1090.1
1031.2
986.5
990.1
957.9
884.6
813.1
752.4
711.3
682.7
629.1
584.4
521.8
452.1
382.4
341.3
303.8
239.5
175.1
137.6
91.1
59.0
23.2
0.0
0.0

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