

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: P943044

Luminaire Tested: **GALN-SB7B-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943044
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-SB7B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 450mA 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: 26276 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

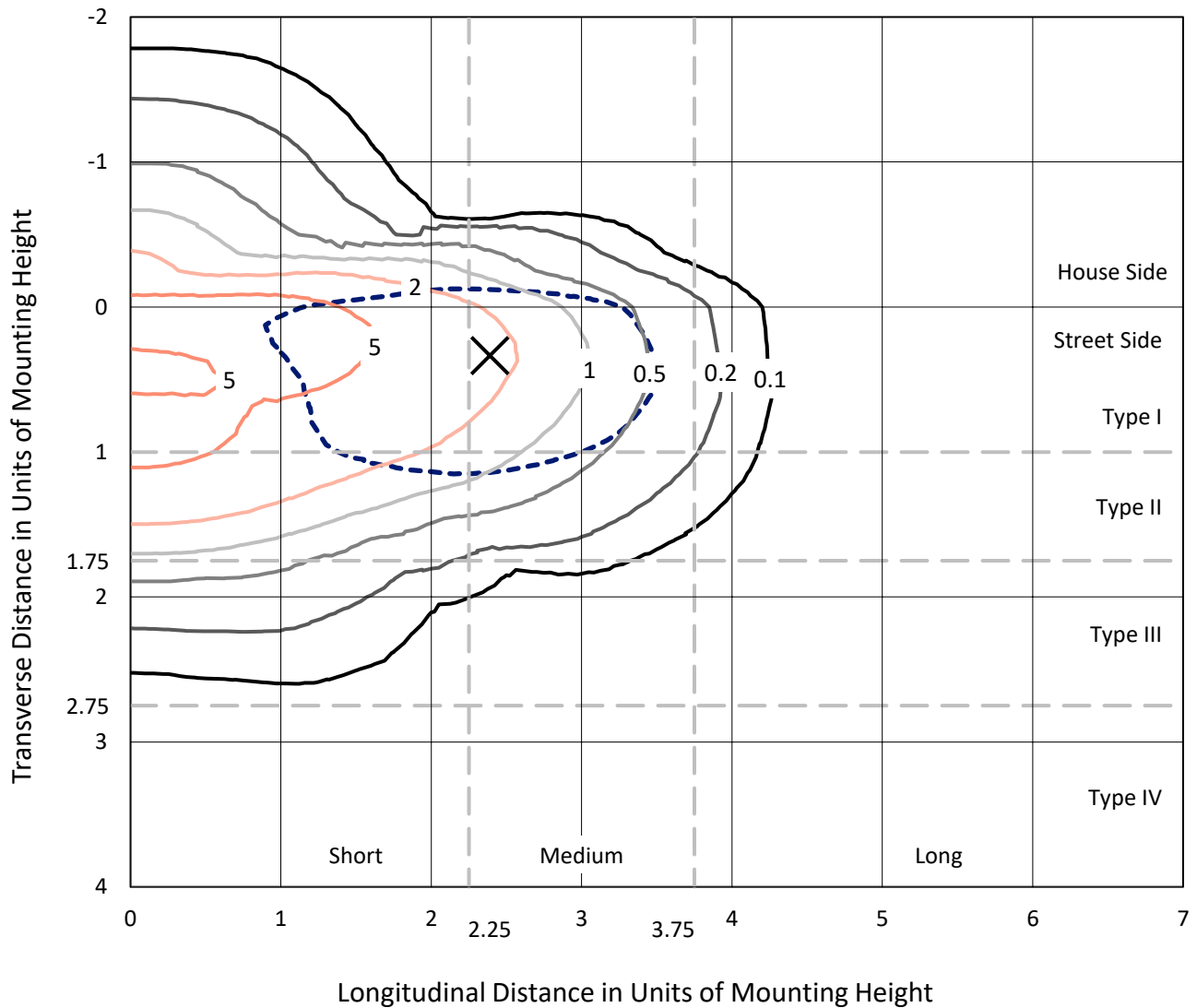
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

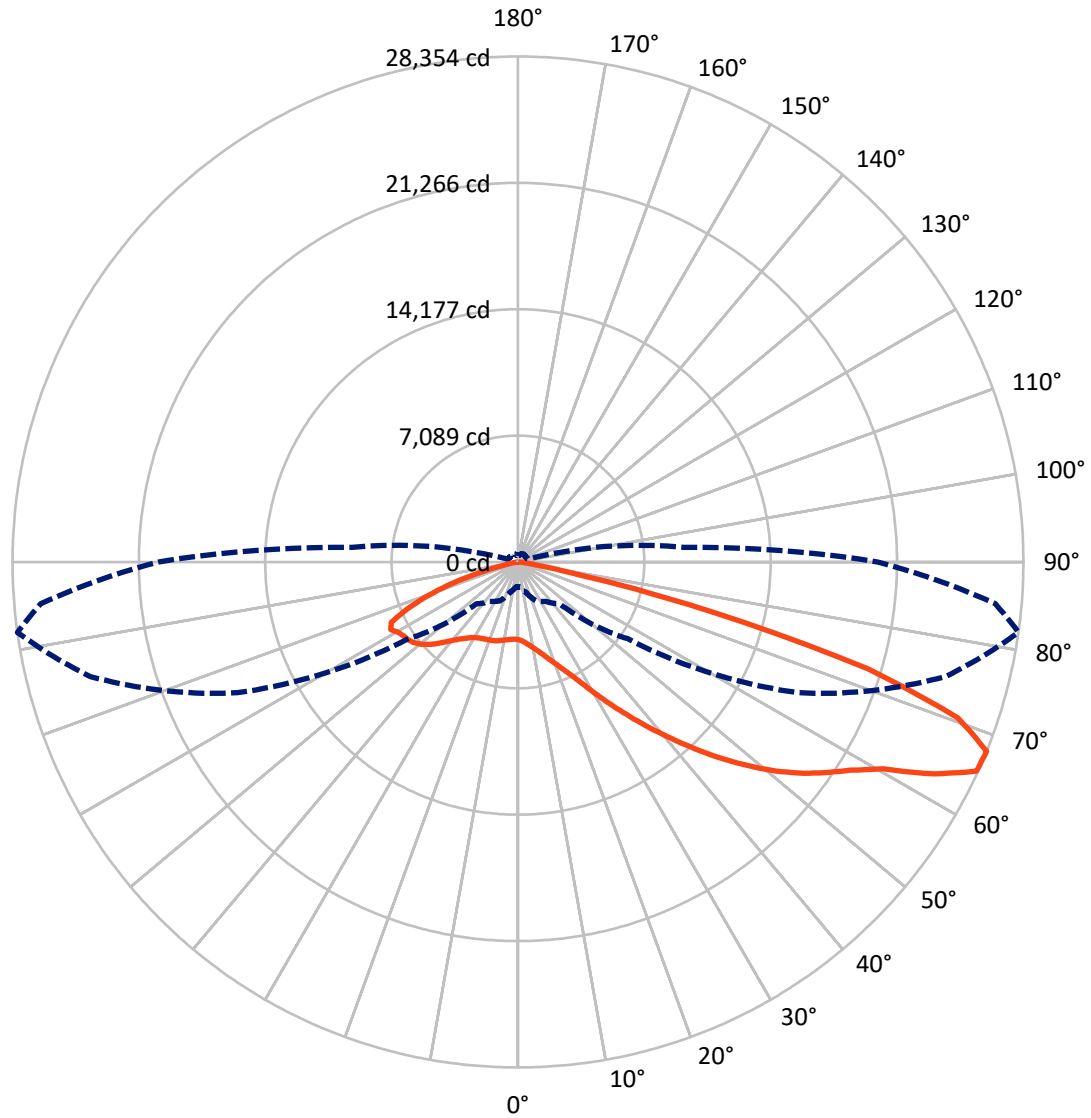
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Medium - N/A

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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
House Side	Lumens	4759.7	0.0	4759.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21516.3	0.0	21516.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	26276.0	0.0	26276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.8	1.5
10°-20°	1007.8	3.8
20°-30°	1614.2	6.1
30°-40°	2854.3	10.9
40°-50°	5001.1	19.0
50°-60°	6670.1	25.4
60°-70°	6209.5	23.6
70°-80°	2383.2	9.1
80°-90°	148.0	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°	26276.0	100.0
0°-180°	26276.0	100.0

Coefficient of Utilization



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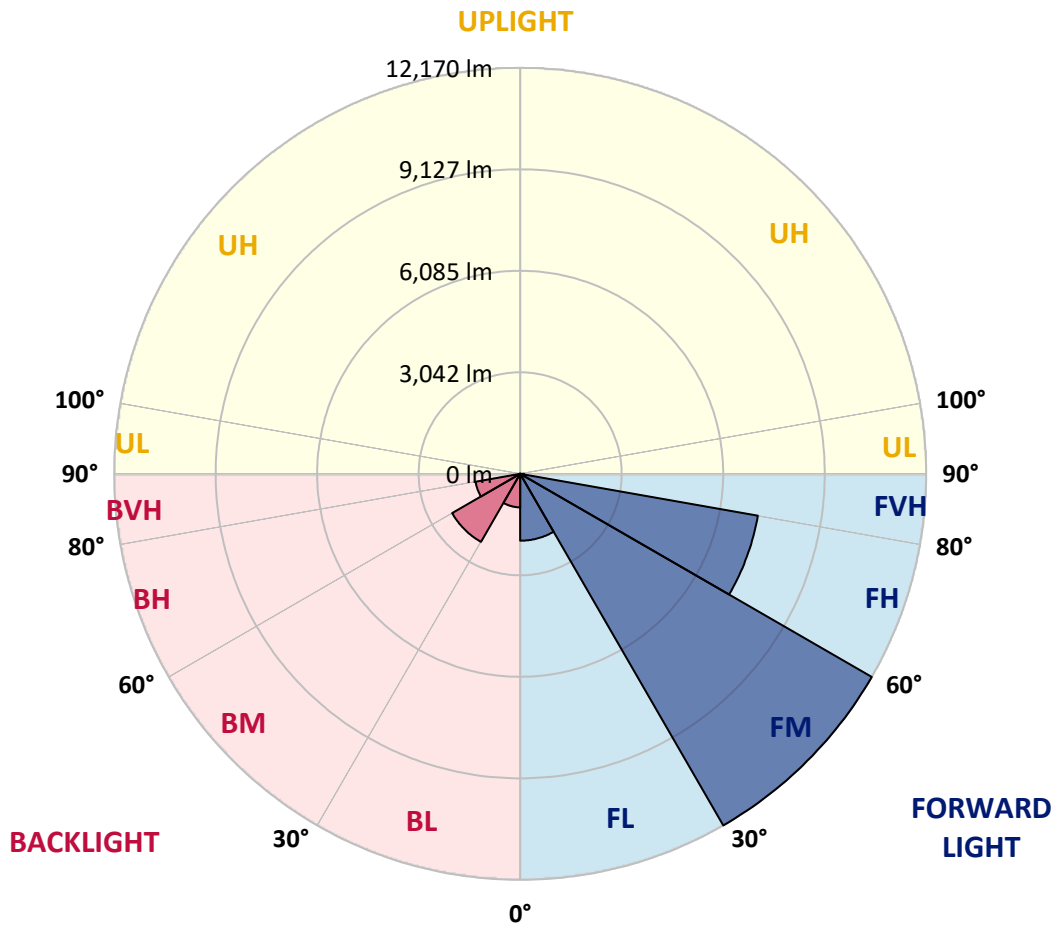
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2004.6	7.6			
FM (30°-60°)	12170.0	46.3			
FH (60°-80°)	7234.2	27.5			G3/7500
FVH (80°-90°)	107.6	0.4			G2/225
BL (0°-30°)	1005.2	3.8	B3/2500		
BM (30°-60°)	2355.5	9.0	B2/2500		
BH (60°-80°)	1358.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	40.4	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°	4353.0	4353.0	4353.0	4353.0	4353.0	4353.0	4353.0	4353.0	4353.0	4353.0
2.5°	4600.9	4627.4	4612.2	4604.7	4591.4	4572.5	4557.4	4510.1	4460.9	4428.7
5°	4693.6	4720.1	4718.2	4725.7	4735.2	4740.9	4737.1	4684.1	4614.1	4559.3
7.5°	4614.1	4644.4	4669.0	4706.8	4773.0	4843.0	4877.1	4865.7	4793.8	4718.2
10°	4389.0	4421.1	4479.8	4568.7	4708.7	4860.0	4986.8	5045.4	5000.0	4916.8
12.5°	3976.6	4008.7	4124.1	4317.1	4551.7	4814.6	5056.8	5213.8	5225.2	5141.9
15°	3513.1	3545.2	3668.2	3910.4	4267.9	4689.8	5094.6	5391.6	5491.9	5420.0
17.5°	3225.5	3253.9	3346.6	3541.5	3914.1	4440.1	5081.4	5580.8	5809.7	5753.0
20°	3138.5	3163.1	3206.6	3342.8	3653.1	4180.9	4994.4	5758.7	6152.2	6120.0
22.5°	3231.2	3253.9	3267.1	3327.7	3522.5	4010.6	4884.6	5940.3	6549.4	6553.2
25°	3445.0	3467.7	3452.5	3490.4	3575.5	3957.7	4843.0	6154.0	7048.9	7090.5
27.5°	3796.9	3798.7	3762.8	3760.9	3774.2	4037.1	4886.5	6383.0	7678.8	7756.4
30°	4502.5	4474.1	4336.0	4186.6	4118.5	4275.5	5007.6	6653.5	8422.3	8560.4
32.5°	5590.3	5548.7	5295.2	4937.6	4578.2	4659.5	5225.2	6961.8	9232.0	9481.7
35°	6770.8	6759.4	6494.6	5963.0	5334.9	5206.2	5578.9	7366.7	10115.5	10512.8
37.5°	7868.0	7862.3	7711.0	7084.8	6320.5	5968.6	6146.5	7896.4	11061.4	11636.5
40°	8870.7	8887.7	8736.4	8176.4	7406.4	6946.7	6918.3	8551.0	12113.2	12860.5
42.5°	9737.1	9756.0	9602.8	9188.5	8479.1	8028.8	7866.1	9353.1	13140.5	14175.3
45°	10325.5	10442.8	10420.1	10089.0	9580.1	9112.8	9005.0	10359.5	14311.5	15569.6
47.5°	10492.0	10599.8	10770.0	10815.5	10505.2	10045.5	10174.1	11572.2	15495.8	16965.7
50°	10081.4	10181.7	10535.5	11006.5	11222.2	11080.3	11311.1	12871.8	16708.4	18358.1
52.5°	9271.7	9373.9	9820.4	10565.7	11445.4	11891.9	12451.9	14152.6	17883.2	19676.7
55°	8100.7	8208.5	8781.8	9625.5	11019.8	12226.7	13403.4	15431.5	18959.7	20862.8
57.5°	6507.8	6587.3	7183.2	8363.7	9949.0	11893.8	14105.3	16827.6	19973.7	22028.2
60°	4241.4	4311.4	5003.8	6320.5	8174.5	10781.4	14245.3	18384.6	21320.6	23543.5
62.5°	2820.7	2868.0	3278.5	4245.2	5756.8	8645.6	13426.1	19627.5	23295.7	26180.7
65°	1935.3	1982.6	2393.1	3066.6	3719.3	5718.9	11070.8	19462.9	25085.3	28274.9
67.5°	1381.0	1420.7	1768.8	2404.5	2692.0	3322.0	7504.8	17359.2	24828.1	28354.4
70°	989.4	1012.1	1299.7	1872.9	2139.6	1995.9	4173.3	13276.7	21738.7	26182.6
72.5°	692.4	700.0	902.4	1426.4	1723.4	1456.7	1986.4	8851.8	16441.7	20550.7
75°	469.2	478.6	607.3	1046.2	1382.9	1112.4	1051.8	4746.5	9652.0	11375.4
77.5°	287.6	291.3	391.6	715.1	1034.8	847.5	677.3	2011.0	3734.4	3666.3
80°	162.7	162.7	249.7	444.6	705.6	546.7	474.8	855.1	1182.4	1038.6
82.5°	90.8	92.7	181.6	276.2	467.3	323.5	261.1	395.4	510.8	452.1
85°	37.8	41.6	111.6	130.5	223.2	160.8	105.9	166.5	189.2	168.4
87.5°	3.8	5.7	34.1	24.6	26.5	32.2	15.1	32.2	26.5	26.5
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°
4353.0	0°	4353.0	4353.0	4353.0	4353.0	4353.0	4353.0	4353.0	4353.0	4353.0	4353.0
4417.4	2.5°	4381.4	4353.0	4281.2	4197.9	4088.2	4035.2	3963.3	3914.1	3872.5	3876.3
4527.1	5°	4466.6	4394.7	4233.9	4033.3	3783.6	3605.8	3416.6	3286.1	3180.1	3157.4
4678.4	7.5°	4583.8	4470.3	4188.5	3827.1	3405.2	3085.5	2799.9	2616.4	2485.8	2444.2
4861.9	10°	4735.2	4570.6	4129.8	3567.9	2960.7	2553.9	2247.5	2103.7	2014.8	1984.5
5077.6	12.5°	4911.1	4686.0	4052.2	3252.0	2502.9	2111.3	1916.4	1844.5	1816.1	1806.7
5342.5	15°	5132.5	4829.8	3935.0	2877.4	2115.0	1840.7	1757.5	1748.0	1751.8	1748.0
5660.3	17.5°	5395.4	4986.8	3743.9	2491.5	1854.0	1702.6	1672.4	1679.9	1689.4	1687.5
6015.9	20°	5683.0	5141.9	3499.8	2149.1	1676.1	1604.3	1587.2	1594.8	1602.4	1598.6
6426.5	22.5°	6010.3	5308.4	3229.3	1882.3	1557.0	1513.4	1494.5	1496.4	1496.4	1488.9
6946.7	25°	6401.9	5491.9	2945.5	1693.2	1466.1	1432.1	1409.4	1401.8	1390.5	1367.8
7578.6	27.5°	6869.1	5686.8	2673.1	1560.7	1394.3	1362.1	1335.6	1316.7	1288.3	1250.5
8337.2	30°	7395.1	5923.2	2442.3	1477.5	1337.5	1305.3	1275.1	1246.7	1205.1	1157.8
9209.3	32.5°	8013.7	6176.7	2273.9	1422.6	1286.4	1252.4	1216.4	1182.4	1137.0	1089.7
10189.3	35°	8751.5	6483.2	2175.6	1384.8	1246.7	1201.3	1161.6	1123.7	1089.7	1048.1
11254.3	37.5°	9551.7	6808.6	2145.3	1365.9	1220.2	1150.2	1104.8	1078.3	1074.5	1050.0
12406.5	40°	10427.6	7194.5	2168.0	1354.5	1191.8	1101.0	1051.8	1046.2	1055.6	1012.1
13638.0	42.5°	11354.6	7652.4	2205.8	1341.3	1152.1	1051.8	1004.5	1004.5	997.0	936.4
14939.6	45°	12357.3	8180.2	2243.7	1309.1	1104.8	1002.7	966.7	953.5	921.3	862.7
16248.7	47.5°	13367.5	8717.4	2272.1	1250.5	1048.1	961.0	928.9	898.6	851.3	798.3
17533.3	50°	14326.6	9199.8	2241.8	1163.5	983.7	921.3	887.3	845.6	794.6	758.6
18749.7	52.5°	15183.6	9617.9	2113.1	1061.3	915.6	879.7	849.4	805.9	764.3	726.5
19846.9	55°	15929.0	9956.6	1886.1	964.8	855.1	843.7	813.5	758.6	701.9	669.7
20934.7	57.5°	16644.1	10213.9	1602.4	885.4	800.2	804.0	758.6	709.4	656.5	622.4
22400.9	60°	17595.7	10558.2	1314.8	811.6	741.6	752.9	703.8	667.8	601.6	558.1
24915.1	62.5°	19116.7	11093.5	1044.3	720.8	673.5	677.3	656.5	612.9	533.5	482.4
26778.5	65°	20323.7	10896.8	822.9	622.4	595.9	601.6	601.6	554.3	469.2	410.5
26878.8	67.5°	20187.5	9330.4	656.5	525.9	522.1	525.9	539.2	499.4	416.2	368.9
24831.8	70°	18596.4	7421.6	525.9	437.0	454.0	444.6	482.4	455.9	374.6	327.3
19251.0	72.5°	15174.2	5346.2	401.1	361.3	348.1	363.2	435.1	410.5	312.1	259.2
10196.8	75°	8866.9	2852.8	298.9	285.7	251.6	302.7	385.9	350.0	238.4	191.1
3125.3	77.5°	2886.9	995.1	219.4	210.0	187.3	244.0	329.2	295.1	194.9	151.3
915.6	80°	773.7	300.8	149.5	138.1	121.1	181.6	261.1	234.6	140.0	98.4
393.5	82.5°	310.3	126.8	87.0	77.6	66.2	124.9	206.2	189.2	104.0	62.4
123.0	85°	100.3	41.6	32.2	24.6	30.3	77.6	123.0	128.6	73.8	32.2
18.9	87.5°	13.2	5.7	5.7	7.6	5.7	13.2	37.8	35.9	20.8	3.8
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>
4353.0
3838.5
3106.3
2402.6
1961.8
1801.0
1746.1
1683.7
1596.7
1485.1
1364.0
1246.7
1154.0
1091.6
1044.3
1048.1
1014.0
936.4
860.8
796.5
752.9
722.7
665.9
618.6
552.4
478.6
404.8
361.3
321.6
253.5
185.4
145.7
96.5
62.4
24.6
0.0
0.0

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