

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: P942354

Luminaire Tested: **GALN-SB6B-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942354
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-SB6B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 21683 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

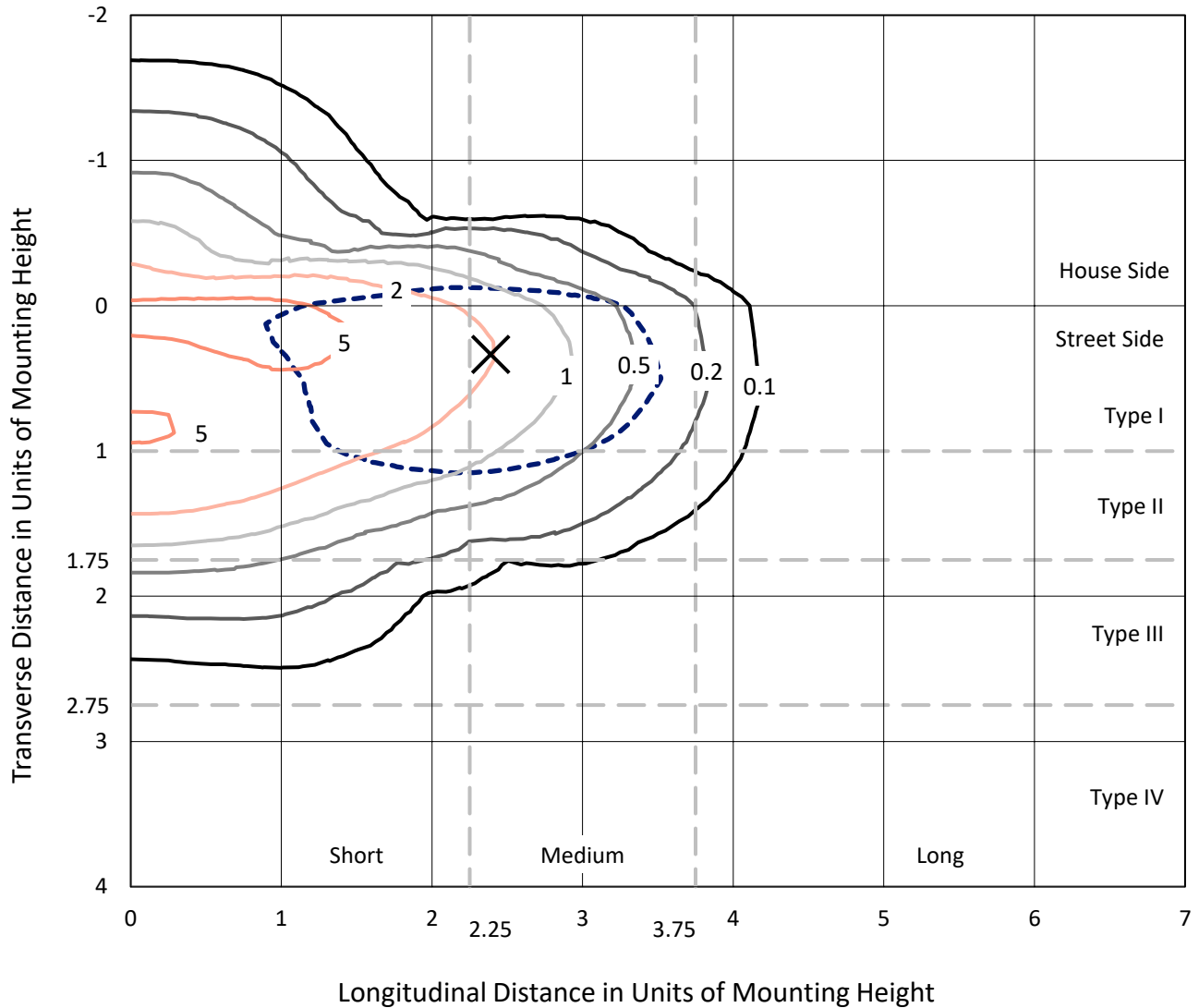
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

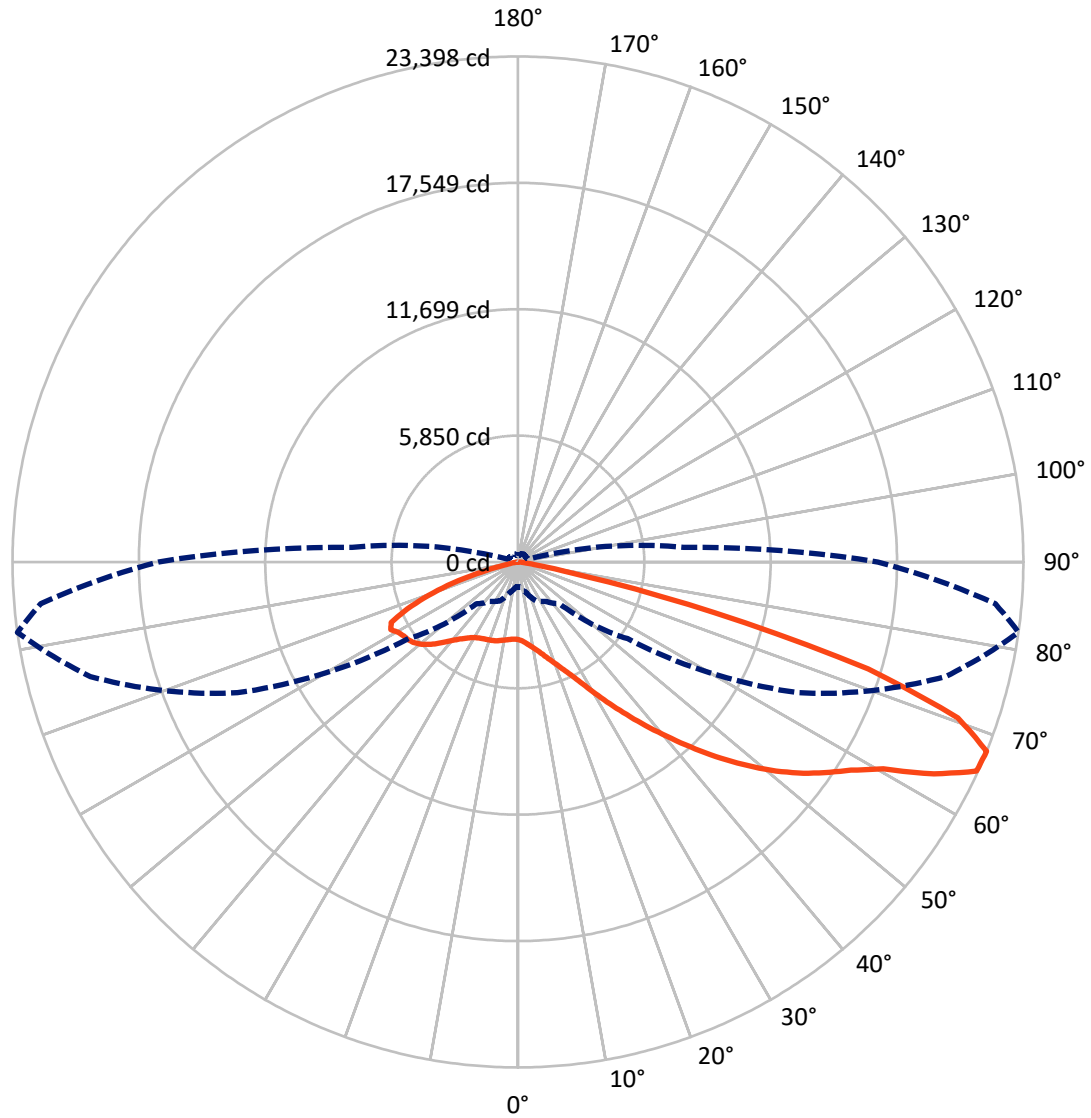
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	3927.7	0.0	3927.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17755.3	0.0	17755.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	21683.0	0.0	21683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.0	1.5
10°-20°	831.6	3.8
20°-30°	1332.0	6.1
30°-40°	2355.4	10.9
40°-50°	4126.9	19.0
50°-60°	5504.1	25.4
60°-70°	5124.1	23.6
70°-80°	1966.6	9.1
80°-90°	122.1	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°	21683.0	100.0
0°-180°	21683.0	100.0

Coefficient of Utilization



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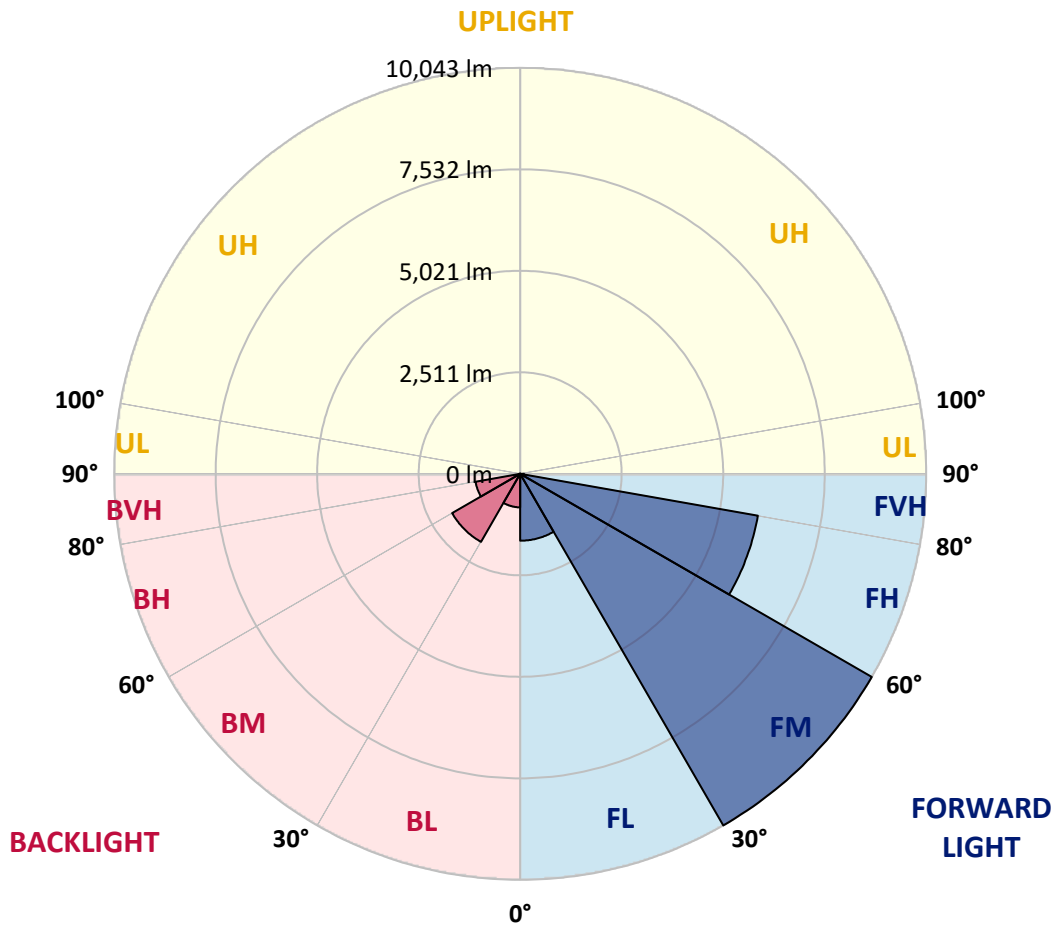
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1654.2	7.6			
FM (30°-60°)	10042.7	46.3			
FH (60°-80°)	5969.7	27.5			G3/7500
FVH (80°-90°)	88.8	0.4			G1/100
BL (0°-30°)	829.5	3.8	B2/1000		
BM (30°-60°)	1943.8	9.0	B2/2500		
BH (60°-80°)	1121.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	33.3	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°	3592.1	3592.1	3592.1	3592.1	3592.1	3592.1	3592.1	3592.1	3592.1	3592.1
2.5°	3796.6	3818.5	3806.0	3799.8	3788.8	3773.2	3760.7	3721.7	3681.1	3654.6
5°	3873.1	3895.0	3893.4	3899.7	3907.5	3912.2	3909.0	3865.3	3807.6	3762.3
7.5°	3807.6	3832.6	3852.8	3884.1	3938.7	3996.5	4024.6	4015.2	3955.9	3893.4
10°	3621.8	3648.3	3696.7	3770.1	3885.6	4010.5	4115.1	4163.5	4126.0	4057.4
12.5°	3281.5	3308.0	3403.2	3562.5	3756.1	3973.1	4172.9	4302.4	4311.8	4243.1
15°	2899.0	2925.5	3027.0	3226.8	3521.9	3870.0	4204.1	4449.2	4531.9	4472.6
17.5°	2661.7	2685.1	2761.6	2922.4	3230.0	3664.0	4193.2	4605.3	4794.2	4747.4
20°	2589.9	2610.2	2646.1	2758.5	3014.5	3450.1	4121.4	4752.1	5076.8	5050.2
22.5°	2666.4	2685.1	2696.1	2746.0	2906.8	3309.6	4030.8	4901.9	5404.6	5407.7
25°	2842.8	2861.5	2849.0	2880.3	2950.5	3265.9	3996.5	5078.3	5816.7	5851.1
27.5°	3133.2	3134.7	3105.1	3103.5	3114.4	3331.4	4032.4	5267.2	6336.6	6400.6
30°	3715.5	3692.1	3578.1	3454.8	3398.6	3528.1	4132.3	5490.5	6950.1	7064.1
32.5°	4613.1	4578.8	4369.6	4074.5	3777.9	3845.0	4311.8	5744.9	7618.3	7824.3
35°	5587.3	5577.9	5359.3	4920.7	4402.4	4296.2	4603.7	6079.0	8347.3	8675.1
37.5°	6492.7	6488.0	6363.1	5846.4	5215.7	4925.3	5072.1	6516.1	9127.9	9602.5
40°	7320.1	7334.1	7209.3	6747.2	6111.8	5732.4	5709.0	7056.3	9995.9	10612.5
42.5°	8035.1	8050.7	7924.2	7582.4	6996.9	6625.4	6491.1	7718.2	10843.5	11697.5
45°	8520.6	8617.4	8598.7	8325.5	7905.5	7519.9	7430.9	8548.7	11809.9	12848.0
47.5°	8658.0	8747.0	8887.5	8924.9	8668.9	8289.6	8395.7	9549.4	12787.1	14000.1
50°	8319.2	8402.0	8693.9	9082.6	9260.6	9143.5	9333.9	10621.9	13787.8	15149.1
52.5°	7651.1	7735.4	8103.8	8718.9	9444.8	9813.2	10275.3	11678.7	14757.3	16237.2
55°	6684.7	6773.7	7246.7	7943.0	9093.5	10089.5	11060.5	12734.1	15645.6	17216.0
57.5°	5370.3	5435.8	5927.6	6901.7	8209.9	9814.8	11639.7	13886.2	16482.3	18177.7
60°	3500.0	3557.8	4129.2	5215.7	6745.6	8896.8	11755.2	15171.0	17593.8	19428.2
62.5°	2327.6	2366.7	2705.4	3503.2	4750.5	7134.3	11079.3	16196.6	19223.6	21604.4
65°	1597.0	1636.1	1974.8	2530.6	3069.2	4719.3	9135.7	16060.8	20700.5	23332.5
67.5°	1139.6	1172.4	1459.6	1984.2	2221.5	2741.3	6193.0	14324.8	20488.2	23398.1
70°	816.5	835.2	1072.5	1545.5	1765.6	1647.0	3443.8	10955.9	17938.8	21605.9
72.5°	571.4	577.6	744.7	1177.1	1422.2	1202.1	1639.2	7304.5	13567.7	16958.5
75°	387.2	395.0	501.1	863.3	1141.2	917.9	868.0	3916.9	7964.8	9387.0
77.5°	237.3	240.4	323.2	590.1	853.9	699.4	558.9	1659.5	3081.7	3025.5
80°	134.3	134.3	206.1	366.9	582.3	451.2	391.8	705.6	975.7	857.1
82.5°	74.9	76.5	149.9	227.9	385.6	267.0	215.4	326.3	421.5	373.1
85°	31.2	34.3	92.1	107.7	184.2	132.7	87.4	137.4	156.1	138.9
87.5°	3.1	4.7	28.1	20.3	21.9	26.5	12.5	26.5	21.9	21.9
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°
3592.1	0°	3592.1	3592.1	3592.1	3592.1	3592.1	3592.1	3592.1	3592.1	3592.1	3592.1
3645.2	2.5°	3615.6	3592.1	3532.8	3464.1	3373.6	3329.9	3270.5	3230.0	3195.6	3198.7
3735.8	5°	3685.8	3626.5	3493.8	3328.3	3122.2	2975.5	2819.4	2711.7	2624.2	2605.5
3860.7	7.5°	3782.6	3688.9	3456.3	3158.1	2810.0	2546.2	2310.5	2159.0	2051.3	2017.0
4012.1	10°	3907.5	3771.7	3407.9	2944.3	2443.2	2107.5	1854.6	1736.0	1662.6	1637.6
4190.0	12.5°	4052.7	3866.9	3343.9	2683.6	2065.4	1742.2	1581.4	1522.1	1498.7	1490.9
4408.6	15°	4235.3	3985.5	3247.1	2374.5	1745.3	1519.0	1450.3	1442.5	1445.6	1442.5
4670.9	17.5°	4452.3	4115.1	3089.5	2056.0	1529.9	1405.0	1380.0	1386.3	1394.1	1392.5
4964.4	20°	4689.6	4243.1	2888.1	1773.4	1383.2	1323.8	1309.8	1316.0	1322.3	1319.1
5303.1	22.5°	4959.7	4380.5	2664.8	1553.3	1284.8	1248.9	1233.3	1234.8	1234.8	1228.6
5732.4	25°	5282.8	4531.9	2430.7	1397.2	1209.9	1181.8	1163.0	1156.8	1147.4	1128.7
6253.9	27.5°	5668.4	4692.7	2205.9	1287.9	1150.5	1124.0	1102.2	1086.5	1063.1	1031.9
6879.9	30°	6102.4	4887.9	2015.4	1219.2	1103.7	1077.2	1052.2	1028.8	994.4	955.4
7599.5	32.5°	6612.9	5097.1	1876.5	1174.0	1061.6	1033.5	1003.8	975.7	938.2	899.2
8408.2	35°	7221.7	5350.0	1795.3	1142.7	1028.8	991.3	958.5	927.3	899.2	864.9
9287.1	37.5°	7882.1	5618.5	1770.3	1127.1	1006.9	949.2	911.7	889.8	886.7	866.4
10237.8	40°	8604.9	5936.9	1789.0	1117.8	983.5	908.6	868.0	863.3	871.1	835.2
11254.1	42.5°	9369.8	6314.7	1820.3	1106.8	950.7	868.0	829.0	829.0	822.7	772.8
12328.2	45°	10197.2	6750.3	1851.5	1080.3	911.7	827.4	797.7	786.8	760.3	711.9
13408.5	47.5°	11030.9	7193.6	1874.9	1031.9	864.9	793.0	766.5	741.5	702.5	658.8
14468.5	50°	11822.4	7591.7	1849.9	960.1	811.8	760.3	732.2	697.8	655.7	626.0
15472.3	52.5°	12529.6	7936.7	1743.8	875.8	755.6	725.9	700.9	665.0	630.7	599.5
16377.7	55°	13144.6	8216.2	1556.4	796.2	705.6	696.3	671.3	626.0	579.2	552.6
17275.4	57.5°	13734.7	8428.5	1322.3	730.6	660.4	663.5	626.0	585.4	541.7	513.6
18485.2	60°	14520.0	8712.6	1085.0	669.7	612.0	621.3	580.7	551.1	496.4	460.5
20560.0	62.5°	15775.1	9154.4	861.7	594.8	555.8	558.9	541.7	505.8	440.2	398.1
22097.7	65°	16771.1	8992.1	679.1	513.6	491.8	496.4	496.4	457.4	387.2	338.8
22180.4	67.5°	16658.7	7699.4	541.7	434.0	430.9	434.0	444.9	412.1	343.4	304.4
20491.3	70°	15345.8	6124.3	434.0	360.6	374.7	366.9	398.1	376.2	309.1	270.1
15886.0	72.5°	12521.8	4411.7	331.0	298.2	287.2	299.7	359.1	338.8	257.6	213.9
8414.4	75°	7317.0	2354.2	246.7	235.7	207.6	249.8	318.5	288.8	196.7	157.7
2579.0	77.5°	2382.3	821.1	181.1	173.3	154.6	201.4	271.6	243.5	160.8	124.9
755.6	80°	638.5	248.2	123.3	114.0	99.9	149.9	215.4	193.6	115.5	81.2
324.7	82.5°	256.0	104.6	71.8	64.0	54.6	103.0	170.2	156.1	85.9	51.5
101.5	85°	82.7	34.3	26.5	20.3	25.0	64.0	101.5	106.2	60.9	26.5
15.6	87.5°	10.9	4.7	4.7	6.2	4.7	10.9	31.2	29.7	17.2	3.1
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>
3592.1
3167.5
2563.4
1982.6
1618.9
1486.2
1440.9
1389.4
1317.6
1225.5
1125.6
1028.8
952.3
900.8
861.7
864.9
836.8
772.8
710.3
657.2
621.3
596.3
549.5
510.5
455.8
395.0
334.1
298.2
265.4
209.2
153.0
120.2
79.6
51.5
20.3
0.0
0.0

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