

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: P940664

Luminaire Tested: **GALN-SB3D-830-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940664  
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-SB3D-830-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

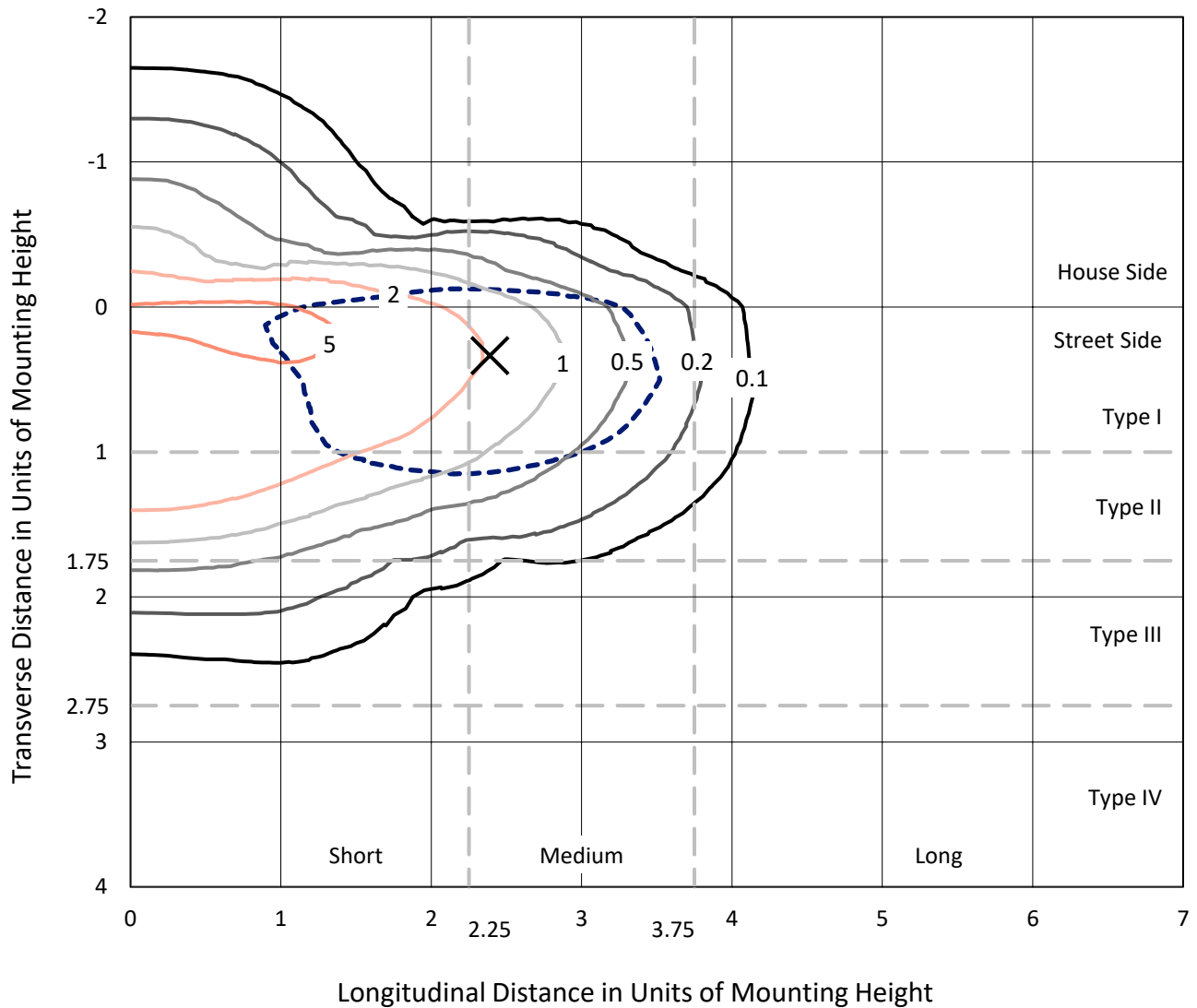
Lumens per Lamp: N/A  
Luminaire Lumens: 20033 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

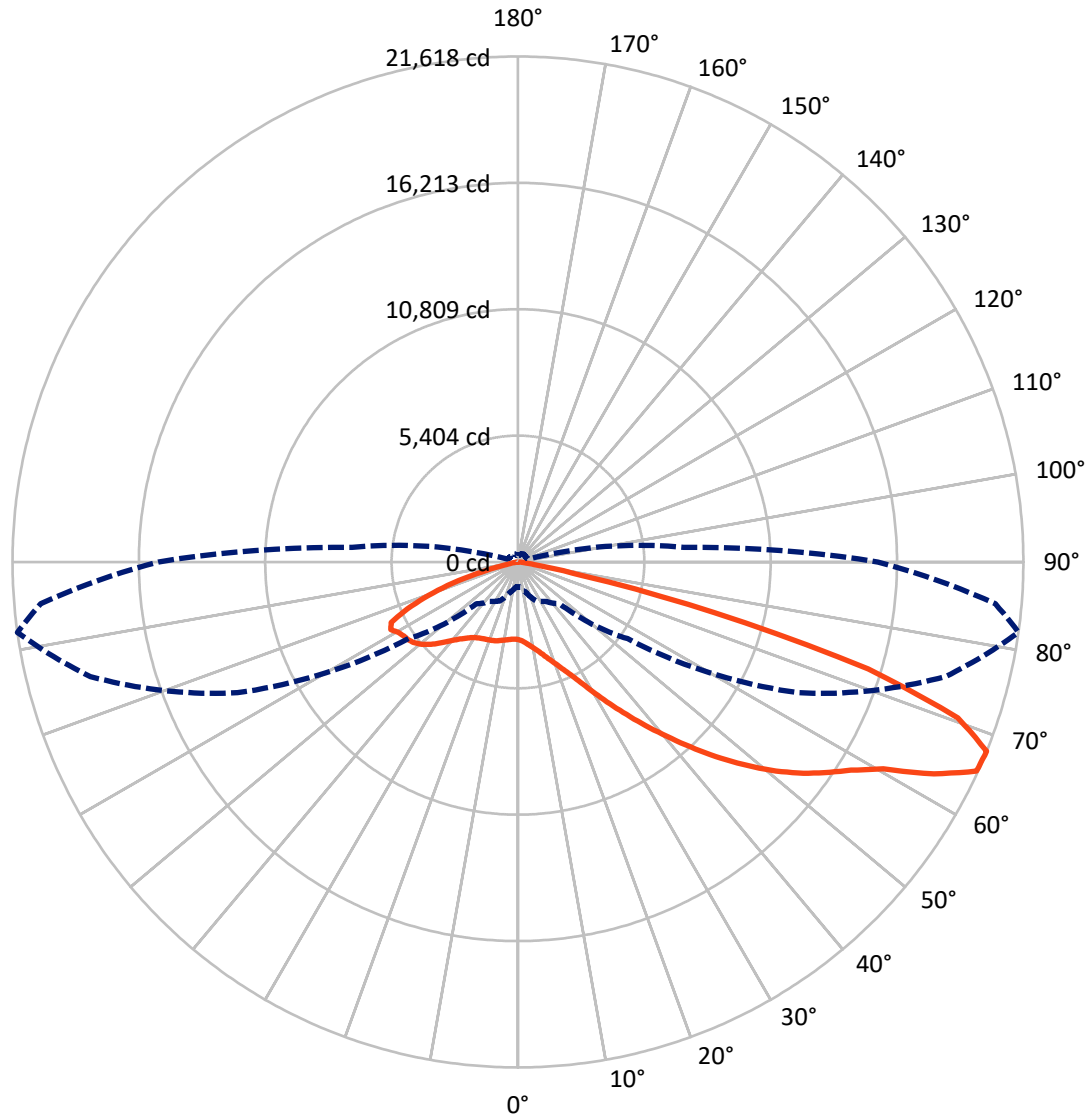
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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
<b>House Side</b>	Lumens	3628.8	0.0	3628.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	16404.2	0.0	16404.2
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	20033.0	0.0	20033.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.7	1.5
10°-20°	768.4	3.8
20°-30°	1230.7	6.1
30°-40°	2176.2	10.9
40°-50°	3812.9	19.0
50°-60°	5085.3	25.4
60°-70°	4734.2	23.6
70°-80°	1817.0	9.1
80°-90°	112.8	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°	20033.0	100.0
0°-180°	20033.0	100.0

**Coefficient of Utilization**



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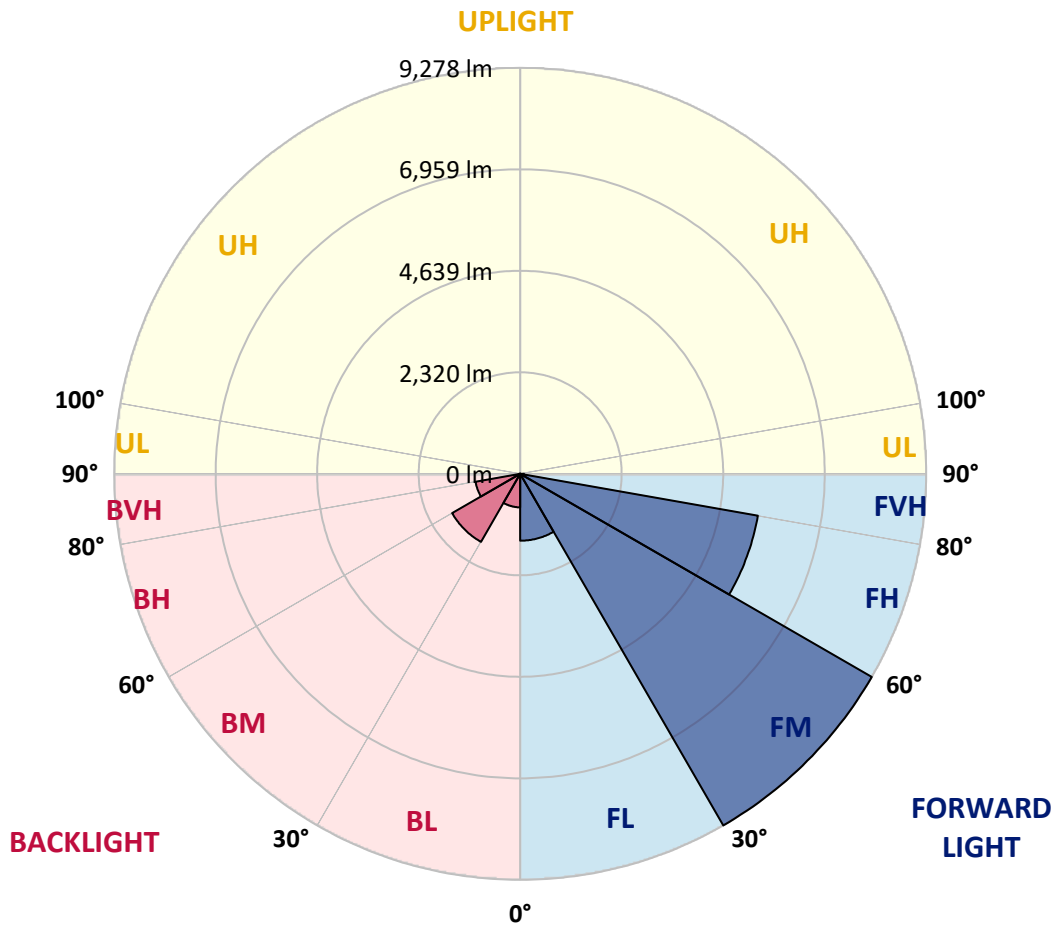
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1528.3	7.6			
FM (30°-60°)	9278.5	46.3			
FH (60°-80°)	5515.4	27.5			G3/7500
FVH (80°-90°)	82.0	0.4			G1/100
BL (0°-30°)	766.4	3.8	B2/1000		
BM (30°-60°)	1795.9	9.0	B2/2500		
BH (60°-80°)	1035.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	30.8	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°	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8
2.5°	3507.7	3527.9	3516.4	3510.6	3500.5	3486.1	3474.6	3438.5	3401.0	3376.5
5°	3578.4	3598.6	3597.2	3602.9	3610.1	3614.5	3611.6	3571.2	3517.8	3476.0
7.5°	3517.8	3540.9	3559.7	3588.5	3639.0	3692.4	3718.3	3709.7	3654.9	3597.2
10°	3346.2	3370.7	3415.4	3483.2	3589.9	3705.3	3802.0	3846.7	3812.1	3748.6
12.5°	3031.8	3056.3	3144.3	3291.4	3470.2	3670.7	3855.3	3975.0	3983.7	3920.2
15°	2678.4	2702.9	2796.7	2981.3	3253.9	3575.5	3884.2	4110.6	4187.1	4132.3
17.5°	2459.2	2480.8	2551.5	2700.0	2984.2	3385.1	3874.1	4254.9	4429.4	4386.1
20°	2392.8	2411.6	2444.7	2548.6	2785.1	3187.5	3807.7	4390.4	4690.4	4665.9
22.5°	2463.5	2480.8	2490.9	2537.0	2685.6	3057.7	3724.1	4528.9	4993.3	4996.2
25°	2626.5	2643.8	2632.2	2661.1	2726.0	3017.3	3692.4	4691.9	5374.1	5405.8
27.5°	2894.7	2896.2	2868.8	2867.3	2877.4	3077.9	3725.5	4866.4	5854.4	5913.5
30°	3432.7	3411.1	3305.8	3191.9	3139.9	3259.7	3817.8	5072.7	6421.2	6526.5
32.5°	4262.1	4230.3	4037.1	3764.5	3490.4	3552.4	3983.7	5307.8	7038.5	7228.9
35°	5162.1	5153.4	4951.5	4546.2	4067.4	3969.3	4253.4	5616.4	7712.1	8015.0
37.5°	5998.6	5994.3	5878.9	5401.5	4818.8	4550.5	4686.1	6020.3	8433.3	8871.7
40°	6763.1	6776.0	6660.7	6233.7	5646.7	5296.2	5274.6	6519.3	9235.2	9804.9
42.5°	7423.6	7438.1	7321.2	7005.4	6464.5	6121.2	5997.2	7130.9	10018.4	10807.3
45°	7872.2	7961.6	7944.3	7691.9	7303.9	6947.7	6865.5	7898.2	10911.2	11870.3
47.5°	7999.1	8081.3	8211.2	8245.8	8009.2	7658.7	7756.8	8822.7	11814.1	12934.8
50°	7686.2	7762.6	8032.3	8391.4	8555.9	8447.7	8623.7	9813.6	12738.6	13996.3
52.5°	7068.8	7146.7	7487.1	8055.4	8726.1	9066.5	9493.4	10790.0	13634.3	15001.6
55°	6176.0	6258.2	6695.3	7338.6	8401.5	9321.7	10218.9	11765.0	14455.0	15906.0
57.5°	4961.6	5022.2	5476.5	6376.5	7585.2	9067.9	10754.0	12829.5	15228.1	16794.4
60°	3233.7	3287.1	3815.0	4818.8	6232.3	8219.8	10860.7	14016.5	16255.0	17949.7
62.5°	2150.5	2186.6	2499.5	3236.6	4389.0	6591.4	10236.2	14964.1	17760.8	19960.3
65°	1475.5	1511.6	1824.5	2338.0	2835.6	4360.1	8440.5	14838.6	19125.2	21557.0
67.5°	1052.9	1083.2	1348.6	1833.2	2052.4	2532.7	5721.7	13234.8	18929.1	21617.6
70°	754.3	771.6	990.9	1427.9	1631.3	1521.7	3181.8	10122.2	16573.8	19961.8
72.5°	527.9	533.7	688.0	1087.5	1314.0	1110.6	1514.4	6748.6	12535.2	15668.0
75°	357.7	364.9	463.0	797.6	1054.3	848.1	801.9	3618.8	7358.7	8672.7
77.5°	219.2	222.1	298.6	545.2	789.0	646.2	516.4	1533.2	2847.1	2795.2
80°	124.0	124.0	190.4	338.9	538.0	416.8	362.0	651.9	901.5	791.8
82.5°	69.2	70.7	138.5	210.6	356.3	246.6	199.0	301.4	389.4	344.7
85°	28.8	31.7	85.1	99.5	170.2	122.6	80.8	126.9	144.2	128.4
87.5°	2.9	4.3	26.0	18.8	20.2	24.5	11.5	24.5	20.2	20.2
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°
3318.8	0°	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8	3318.8
3367.8	2.5°	3340.4	3318.8	3264.0	3200.5	3116.9	3076.5	3021.7	2984.2	2952.4	2955.3
3451.5	5°	3405.3	3350.5	3227.9	3075.0	2884.7	2749.1	2604.8	2505.3	2424.5	2407.2
3566.9	7.5°	3494.8	3408.2	3193.3	2917.8	2596.2	2352.4	2134.6	1994.7	1895.2	1863.5
3706.8	10°	3610.1	3484.7	3148.6	2720.2	2257.2	1947.1	1713.5	1603.9	1536.1	1513.0
3871.2	12.5°	3744.3	3572.6	3089.5	2479.4	1908.2	1609.6	1461.1	1406.3	1384.6	1377.4
4073.1	15°	3913.0	3682.3	3000.0	2193.8	1612.5	1403.4	1339.9	1332.7	1335.6	1332.7
4315.4	17.5°	4113.5	3802.0	2854.4	1899.5	1413.5	1298.1	1275.0	1280.8	1288.0	1286.6
4586.6	20°	4332.7	3920.2	2668.3	1638.5	1277.9	1223.1	1210.1	1215.9	1221.6	1218.8
4899.6	22.5°	4582.3	4047.2	2462.0	1435.1	1187.0	1153.9	1139.4	1140.9	1140.9	1135.1
5296.2	25°	4880.8	4187.1	2245.7	1290.9	1117.8	1091.8	1074.5	1068.8	1060.1	1042.8
5778.0	27.5°	5237.1	4335.6	2038.0	1189.9	1063.0	1038.5	1018.3	1003.9	982.2	953.4
6356.3	30°	5638.0	4515.9	1862.0	1126.5	1019.7	995.2	972.1	950.5	918.8	882.7
7021.2	32.5°	6109.7	4709.2	1733.7	1084.6	980.8	954.8	927.4	901.5	866.8	830.8
7768.4	35°	6672.2	4942.8	1658.7	1055.8	950.5	915.9	885.6	856.7	830.8	799.0
8580.4	37.5°	7282.3	5190.9	1635.6	1041.4	930.3	876.9	842.3	822.1	819.2	800.5
9458.8	40°	7950.1	5485.2	1652.9	1032.7	908.7	839.4	801.9	797.6	804.8	771.6
10397.7	42.5°	8656.8	5834.2	1681.8	1022.6	878.4	801.9	765.9	765.9	760.1	714.0
11390.0	45°	9421.3	6236.6	1710.6	998.1	842.3	764.4	737.0	726.9	702.4	657.7
12388.1	47.5°	10191.5	6646.2	1732.2	953.4	799.0	732.7	708.2	685.1	649.0	608.7
13367.5	50°	10922.7	7014.0	1709.2	887.0	750.0	702.4	676.5	644.7	605.8	578.4
14294.9	52.5°	11576.1	7332.8	1611.1	809.1	698.1	670.7	647.6	614.4	582.7	553.9
15131.4	55°	12144.4	7591.0	1438.0	735.6	651.9	643.3	620.2	578.4	535.1	510.6
15960.8	57.5°	12689.6	7787.1	1221.6	675.0	610.1	613.0	578.4	540.9	500.5	474.5
17078.6	60°	13415.1	8049.6	1002.4	618.8	565.4	574.0	536.5	509.1	458.7	425.5
18995.4	62.5°	14574.7	8457.8	796.2	549.5	513.5	516.4	500.5	467.3	406.7	367.8
20416.1	65°	15494.9	8307.8	627.4	474.5	454.3	458.7	458.7	422.6	357.7	313.0
20492.6	67.5°	15391.1	7113.5	500.5	401.0	398.1	401.0	411.1	380.8	317.3	281.3
18932.0	70°	14178.1	5658.2	401.0	333.2	346.2	338.9	367.8	347.6	285.6	249.5
14677.1	72.5°	11568.9	4076.0	305.8	275.5	265.4	276.9	331.7	313.0	238.0	197.6
7774.1	75°	6760.2	2175.0	227.9	217.8	191.8	230.8	294.2	266.8	181.7	145.7
2382.7	77.5°	2201.0	758.7	167.3	160.1	142.8	186.1	251.0	225.0	148.6	115.4
698.1	80°	589.9	229.3	113.9	105.3	92.3	138.5	199.0	178.8	106.7	75.0
300.0	82.5°	236.5	96.6	66.3	59.1	50.5	95.2	157.2	144.2	79.3	47.6
93.8	85°	76.4	31.7	24.5	18.8	23.1	59.1	93.8	98.1	56.3	24.5
14.4	87.5°	10.1	4.3	4.3	5.8	4.3	10.1	28.8	27.4	15.9	2.9
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>
3318.8
2926.5
2368.3
1831.8
1495.7
1373.1
1331.3
1283.7
1217.3
1132.2
1039.9
950.5
879.8
832.2
796.2
799.0
773.1
714.0
656.3
607.2
574.0
551.0
507.7
471.6
421.2
364.9
308.7
275.5
245.2
193.3
141.3
111.1
73.6
47.6
18.8
0.0
0.0

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