

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: P941414

Luminaire Tested: **GALN-SB4D-940-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941414  
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-SB4D-940-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

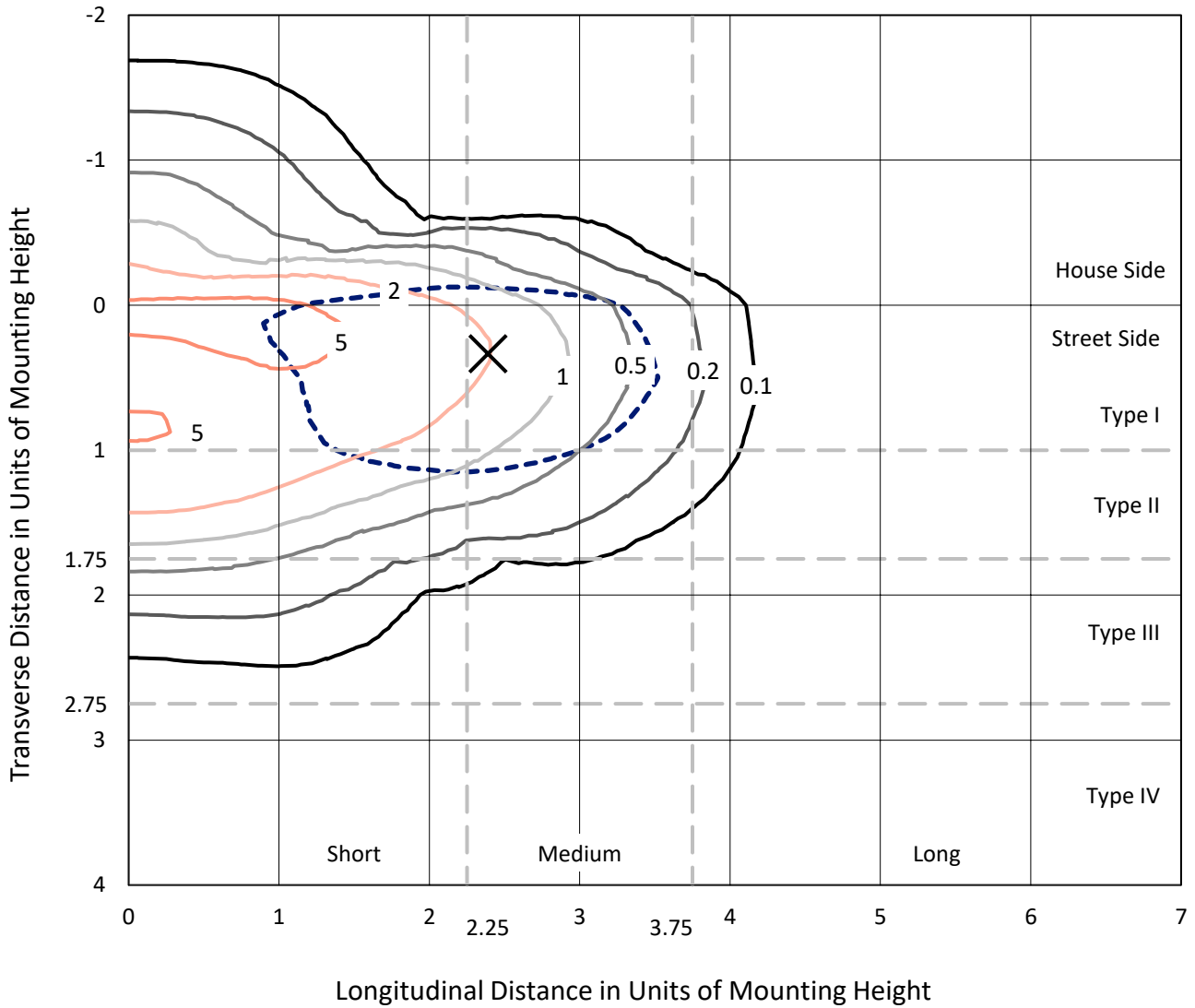
Lumens per Lamp: N/A  
Luminaire Lumens: 21580 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

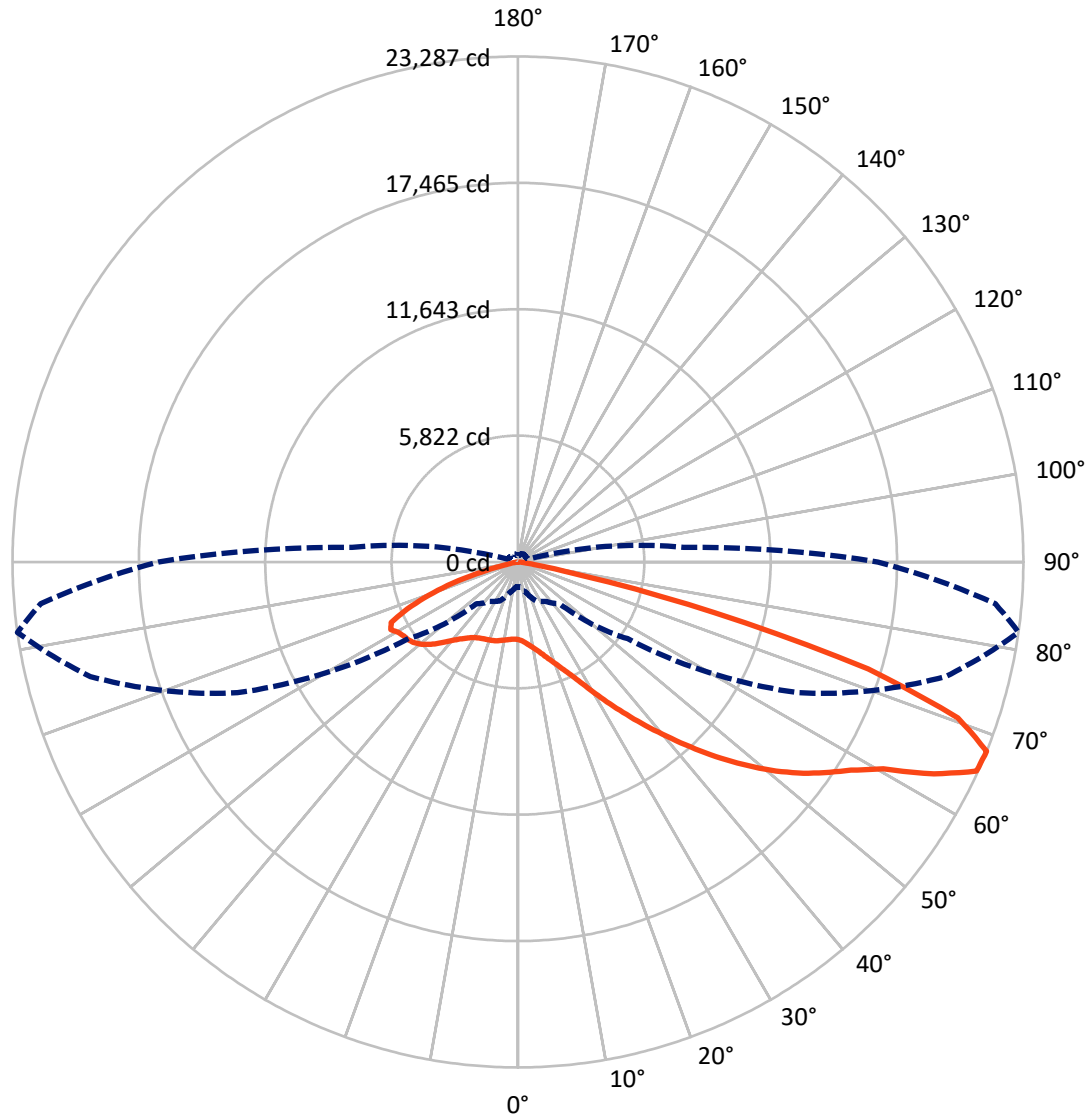
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	3909.0	0.0	3909.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	17671.0	0.0	17671.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	21580.0	0.0	21580.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.5	1.5
10°-20°	827.7	3.8
20°-30°	1325.7	6.1
30°-40°	2344.2	10.9
40°-50°	4107.3	19.0
50°-60°	5478.0	25.4
60°-70°	5099.7	23.6
70°-80°	1957.3	9.1
80°-90°	121.6	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°	21580.0	100.0
0°-180°	21580.0	100.0



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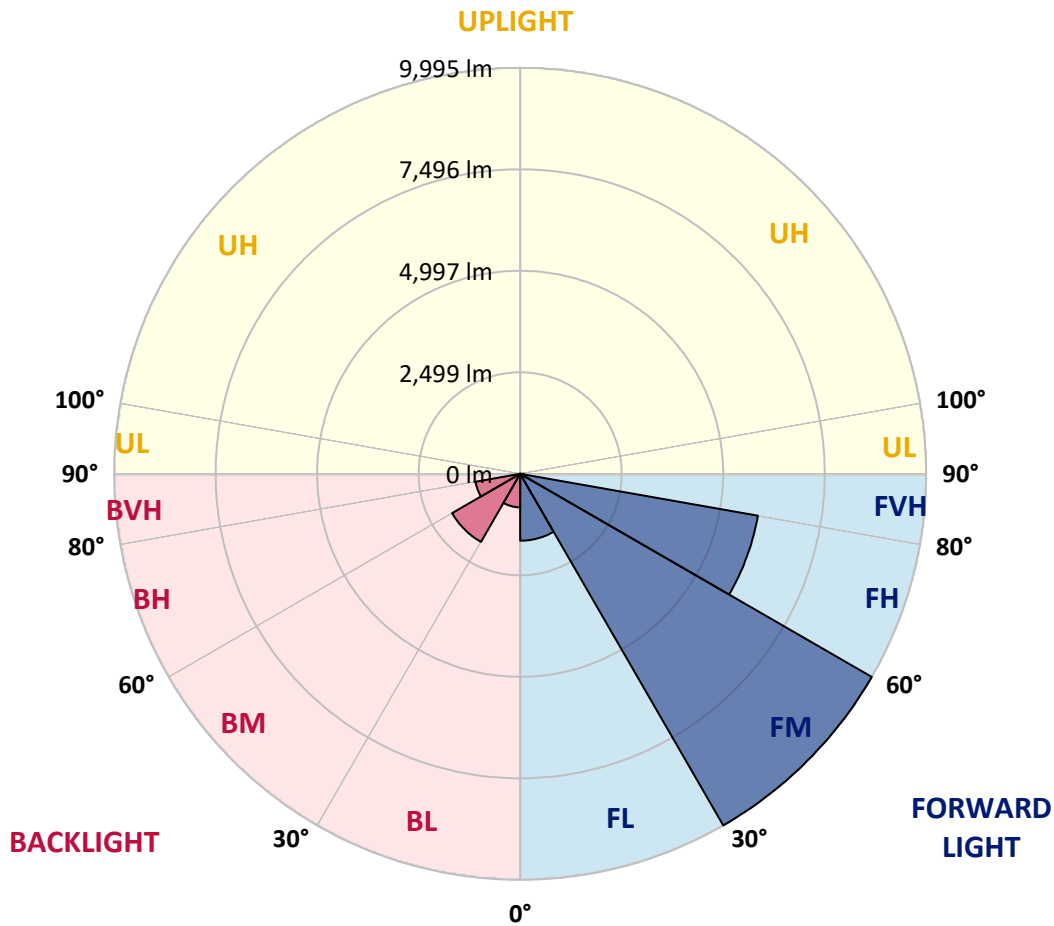
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1646.3	7.6			
FM (30°-60°)	9995.0	46.3			
FH (60°-80°)	5941.3	27.5			G3/7500
FVH (80°-90°)	88.4	0.4			G1/100
BL (0°-30°)	825.6	3.8	B2/1000		
BM (30°-60°)	1934.6	9.0	B2/2500		
BH (60°-80°)	1115.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	33.2	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°	3575.1	3575.1	3575.1	3575.1	3575.1	3575.1	3575.1	3575.1	3575.1	3575.1
2.5°	3778.6	3800.4	3787.9	3781.7	3770.8	3755.3	3742.9	3704.0	3663.6	3637.2
5°	3854.7	3876.5	3874.9	3881.2	3888.9	3893.6	3890.5	3847.0	3789.5	3744.4
7.5°	3789.5	3814.3	3834.5	3865.6	3920.0	3977.5	4005.5	3996.1	3937.1	3874.9
10°	3604.6	3631.0	3679.2	3752.2	3867.2	3991.5	4095.6	4143.7	4106.4	4038.1
12.5°	3265.9	3292.3	3387.1	3545.6	3738.2	3954.2	4153.1	4282.0	4291.3	4223.0
15°	2885.2	2911.6	3012.6	3211.5	3505.2	3851.6	4184.1	4428.1	4510.4	4451.4
17.5°	2649.1	2672.4	2748.5	2908.5	3214.6	3646.5	4173.3	4583.4	4771.4	4724.8
20°	2577.6	2597.8	2633.5	2745.4	3000.2	3433.7	4101.8	4729.5	5052.6	5026.2
22.5°	2653.7	2672.4	2683.2	2733.0	2893.0	3293.9	4011.7	4878.6	5378.9	5382.0
25°	2829.3	2847.9	2835.5	2866.6	2936.5	3250.4	3977.5	5054.2	5789.1	5823.3
27.5°	3118.3	3119.8	3090.3	3088.8	3099.6	3315.6	4013.2	5242.2	6306.5	6370.2
30°	3697.8	3674.5	3561.1	3438.3	3382.4	3511.4	4112.7	5464.4	6917.1	7030.5
32.5°	4591.2	4557.0	4348.8	4055.2	3760.0	3826.8	4291.3	5717.6	7582.1	7787.2
35°	5560.7	5551.4	5333.9	4897.3	4381.4	4275.8	4581.9	6050.1	8307.7	8633.9
37.5°	6461.9	6457.2	6332.9	5818.6	5190.9	4901.9	5048.0	6485.2	9084.5	9556.8
40°	7285.3	7299.3	7175.0	6715.1	6082.8	5705.2	5681.9	7022.7	9948.4	10562.1
42.5°	7996.9	8012.5	7886.6	7546.3	6963.7	6593.9	6460.3	7681.5	10792.0	11641.9
45°	8480.1	8576.5	8557.8	8285.9	7868.0	7484.2	7395.6	8508.1	11753.8	12787.0
47.5°	8616.8	8705.4	8845.2	8882.5	8627.7	8250.2	8355.8	9504.0	12726.4	13933.6
50°	8279.7	8362.0	8652.6	9039.5	9216.6	9100.1	9289.6	10571.4	13722.3	15077.2
52.5°	7614.7	7698.6	8065.3	8677.4	9399.9	9766.6	10226.5	11623.3	14687.2	16160.1
55°	6653.0	6741.5	7212.3	7905.3	9050.3	10041.6	11008.0	12673.6	15571.2	17134.3
57.5°	5344.7	5410.0	5899.4	6868.9	8170.9	9768.1	11584.4	13820.2	16404.0	18091.3
60°	3483.4	3540.9	4109.6	5190.9	6713.6	8854.6	11699.4	15098.9	17510.3	19335.9
62.5°	2316.6	2355.4	2692.6	3486.5	4727.9	7100.4	11026.6	16119.7	19132.3	21501.7
65°	1589.4	1628.3	1965.4	2518.6	3054.6	4696.9	9092.3	15984.5	20602.1	23221.7
67.5°	1134.2	1166.8	1452.7	1974.8	2210.9	2728.3	6163.5	14256.8	20390.8	23286.9
70°	812.6	831.2	1067.4	1538.2	1757.2	1639.2	3427.5	10903.9	17853.6	21503.3
72.5°	568.7	574.9	741.1	1171.5	1415.4	1196.4	1631.4	7269.8	13503.3	16877.9
75°	385.3	393.1	498.7	859.2	1135.8	913.6	863.9	3898.2	7927.0	9342.4
77.5°	236.2	239.3	321.6	587.3	849.9	696.1	556.2	1651.6	3067.0	3011.1
80°	133.6	133.6	205.1	365.1	579.5	449.0	390.0	702.3	971.1	853.0
82.5°	74.6	76.1	149.2	226.8	383.8	265.7	214.4	324.7	419.5	371.3
85°	31.1	34.2	91.7	107.2	183.3	132.1	87.0	136.7	155.4	138.3
87.5°	3.1	4.7	28.0	20.2	21.8	26.4	12.4	26.4	21.8	21.8
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°
3575.1	0°	3575.1	3575.1	3575.1	3575.1	3575.1	3575.1	3575.1	3575.1	3575.1	3575.1
3627.9	2.5°	3598.4	3575.1	3516.0	3447.7	3357.6	3314.1	3255.0	3214.6	3180.4	3183.5
3718.0	5°	3668.3	3609.3	3477.2	3312.5	3107.4	2961.4	2806.0	2698.8	2611.8	2593.1
3842.3	7.5°	3764.6	3671.4	3439.9	3143.1	2796.7	2534.1	2299.5	2148.8	2041.6	2007.4
3993.0	10°	3888.9	3753.8	3391.7	2930.3	2431.5	2097.5	1845.8	1727.7	1654.7	1629.8
4170.1	12.5°	4033.4	3848.5	3328.0	2670.8	2055.6	1733.9	1573.9	1514.9	1491.6	1483.8
4387.7	15°	4215.2	3966.6	3231.7	2363.2	1737.0	1511.8	1443.4	1435.6	1438.7	1435.6
4648.7	17.5°	4431.2	4095.6	3074.8	2046.2	1522.6	1398.3	1373.5	1379.7	1387.5	1385.9
4940.8	20°	4667.3	4223.0	2874.4	1765.0	1376.6	1317.5	1303.6	1309.8	1316.0	1312.9
5277.9	22.5°	4936.1	4359.7	2652.2	1545.9	1278.7	1243.0	1227.4	1229.0	1229.0	1222.8
5705.2	25°	5257.7	4510.4	2419.1	1390.6	1204.1	1176.2	1157.5	1151.3	1142.0	1123.3
6224.1	27.5°	5641.5	4670.4	2195.4	1281.8	1145.1	1118.7	1096.9	1081.4	1058.1	1027.0
6847.2	30°	6073.4	4864.7	2005.8	1213.4	1098.5	1072.1	1047.2	1023.9	989.7	950.9
7563.4	32.5°	6581.5	5072.8	1867.6	1168.4	1056.5	1028.6	999.0	971.1	933.8	894.9
8368.3	35°	7187.4	5324.5	1786.8	1137.3	1023.9	986.6	954.0	922.9	894.9	860.8
9243.0	37.5°	7844.7	5591.8	1761.9	1121.8	1002.1	944.7	907.4	885.6	882.5	862.3
10189.2	40°	8564.0	5908.7	1780.5	1112.5	978.8	904.3	863.9	859.2	867.0	831.2
11200.7	42.5°	9325.3	6284.7	1811.6	1101.6	946.2	863.9	825.0	825.0	818.8	769.1
12269.6	45°	10148.8	6718.2	1842.7	1075.2	907.4	823.5	793.9	783.1	756.7	708.5
13344.8	47.5°	10978.5	7159.5	1866.0	1027.0	860.8	789.3	762.9	738.0	699.2	655.7
14399.7	50°	11766.2	7555.7	1841.1	955.5	807.9	756.7	728.7	694.5	652.6	623.0
15398.8	52.5°	12470.0	7899.0	1735.5	871.6	752.0	722.5	697.6	661.9	627.7	596.6
16299.9	55°	13082.2	8177.2	1549.0	792.4	702.3	693.0	668.1	623.0	576.4	550.0
17193.3	57.5°	13669.5	8388.5	1316.0	727.1	657.2	660.3	623.0	582.6	539.1	511.2
18397.4	60°	14451.0	8671.2	1079.8	666.5	609.1	618.4	578.0	548.5	494.1	458.3
20462.3	62.5°	15700.2	9110.9	857.6	592.0	553.1	556.2	539.1	503.4	438.1	396.2
21992.7	65°	16691.5	8949.3	675.9	511.2	489.4	494.1	494.1	455.2	385.3	337.2
22075.0	67.5°	16579.6	7662.9	539.1	431.9	428.8	431.9	442.8	410.2	341.8	303.0
20393.9	70°	15272.9	6095.2	431.9	358.9	372.9	365.1	396.2	374.4	307.6	268.8
15810.5	72.5°	12462.3	4390.8	329.4	296.8	285.9	298.3	357.4	337.2	256.4	212.9
8374.5	75°	7282.2	2343.0	245.5	234.6	206.6	248.6	317.0	287.4	195.8	156.9
2566.7	77.5°	2371.0	817.2	180.2	172.5	153.8	200.4	270.3	242.4	160.0	124.3
752.0	80°	635.5	247.0	122.7	113.4	99.4	149.2	214.4	192.7	115.0	80.8
323.2	82.5°	254.8	104.1	71.5	63.7	54.4	102.5	169.4	155.4	85.5	51.3
101.0	85°	82.3	34.2	26.4	20.2	24.9	63.7	101.0	105.7	60.6	26.4
15.5	87.5°	10.9	4.7	4.7	6.2	4.7	10.9	31.1	29.5	17.1	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>
3575.1
3152.5
2551.2
1973.2
1611.2
1479.1
1434.1
1382.8
1311.3
1219.7
1120.2
1023.9
947.8
896.5
857.6
860.8
832.8
769.1
706.9
654.1
618.4
593.5
546.9
508.1
453.7
393.1
332.5
296.8
264.1
208.2
152.3
119.6
79.2
51.3
20.2
0.0
0.0

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