

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: P943544

Luminaire Tested: **GALN-SB8A-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943544
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-SB8A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 350mA 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: 23032 lumens
Efficiency: N/A
Efficacy: 101.4 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

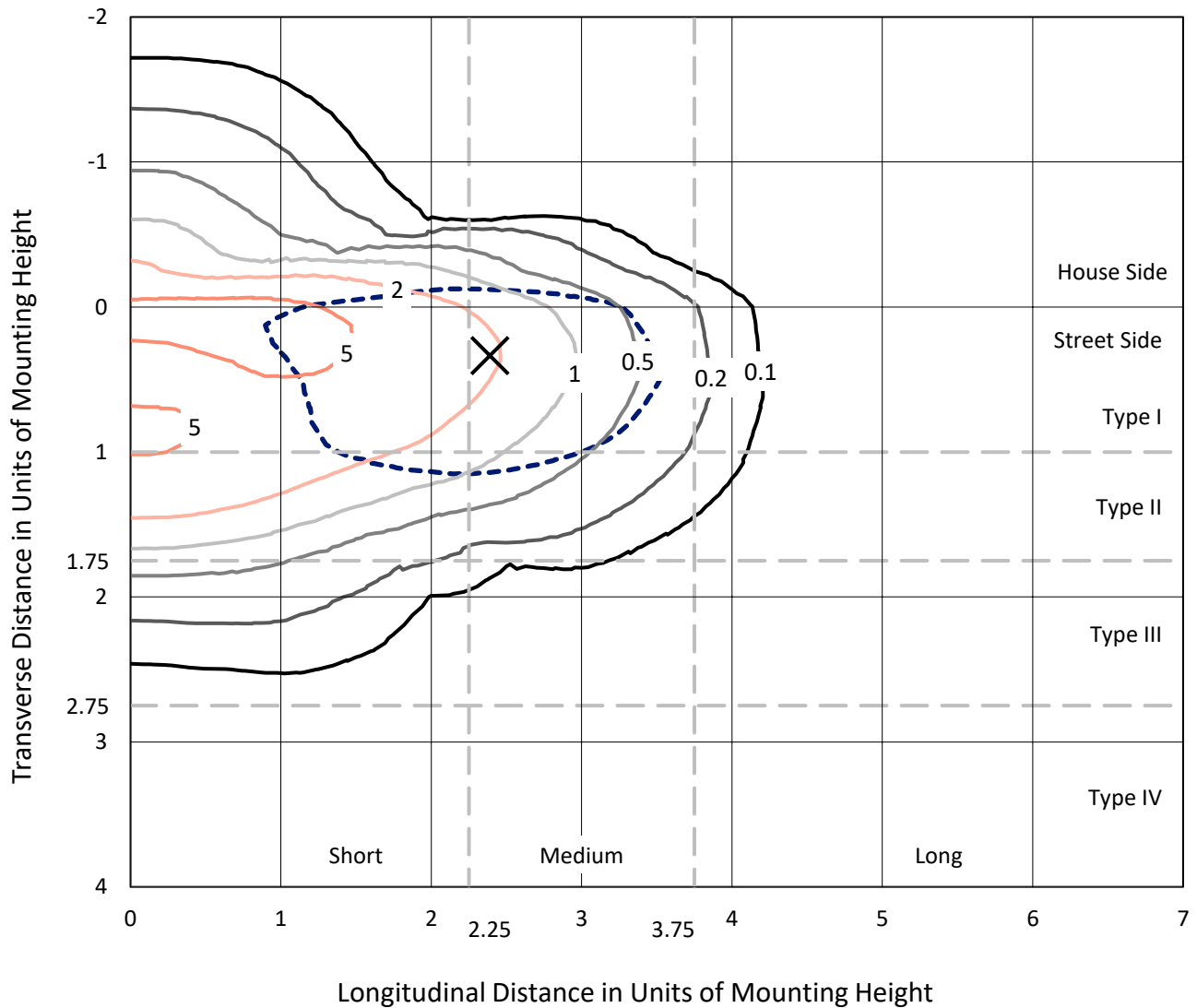
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

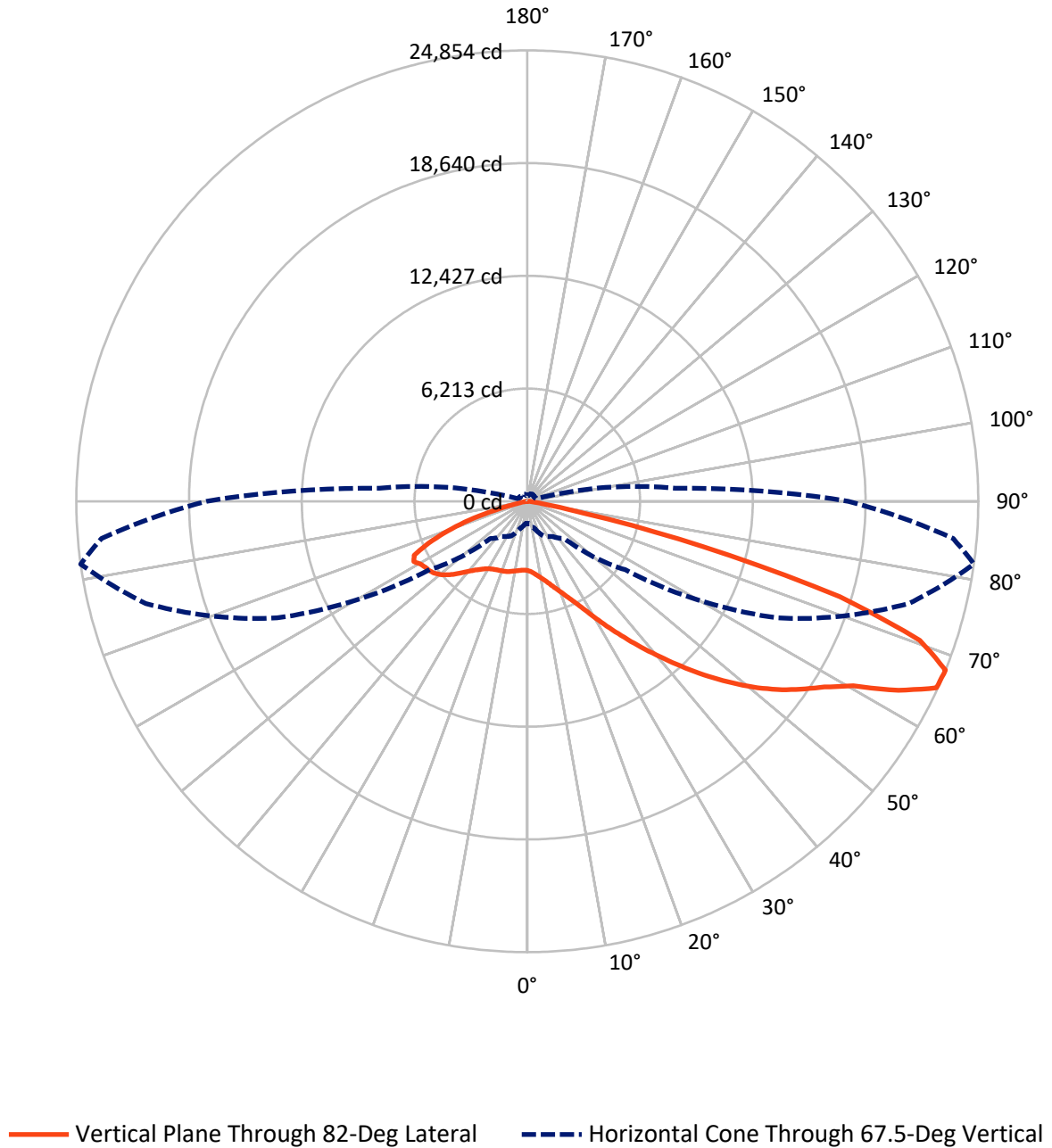
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4172.1	0.0	4172.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18860.0	0.0	18860.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	23032.0	0.0	23032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.9	1.5
10°-20°	883.4	3.8
20°-30°	1414.9	6.1
30°-40°	2502.0	10.9
40°-50°	4383.7	19.0
50°-60°	5846.6	25.4
60°-70°	5442.9	23.6
70°-80°	2089.0	9.1
80°-90°	129.7	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°	23032.0	100.0
0°-180°	23032.0	100.0

Coefficient of Utilization



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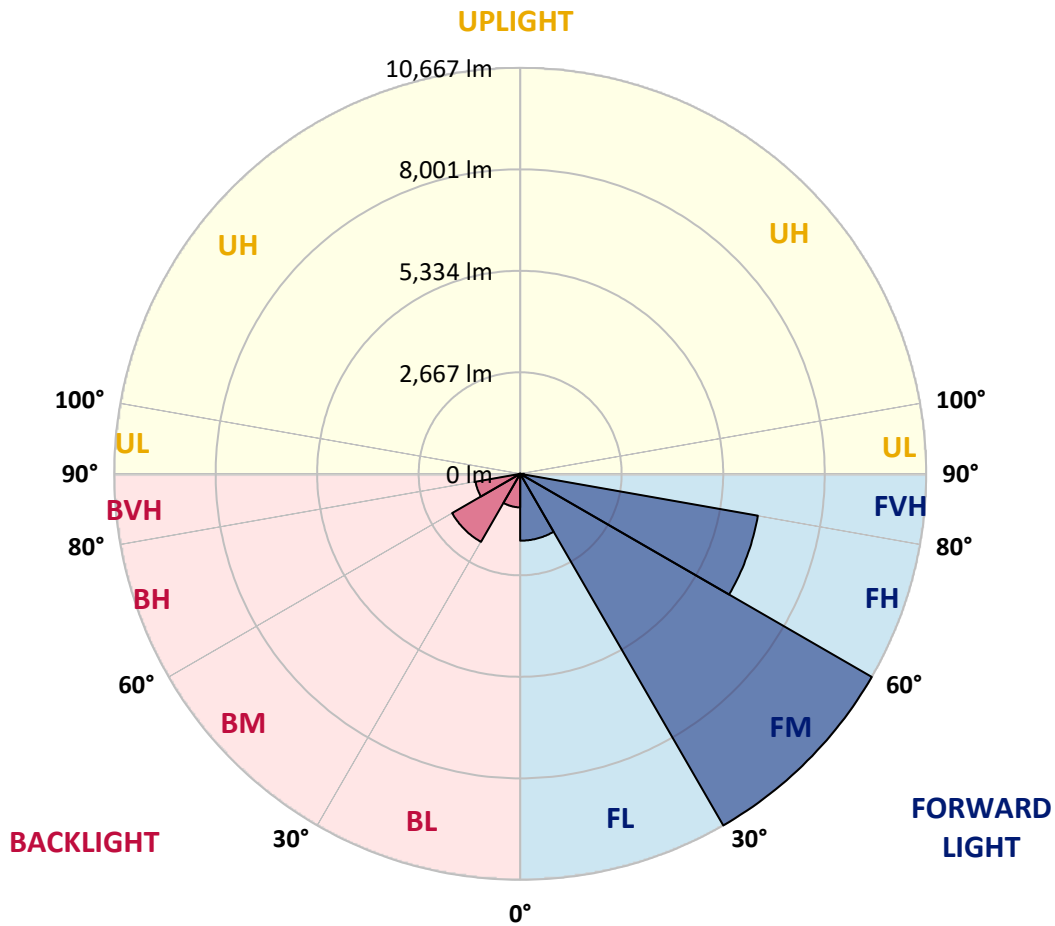
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1757.1	7.6			
FM (30°-60°)	10667.5	46.3			
FH (60°-80°)	6341.1	27.5			G3/7500
FVH (80°-90°)	94.3	0.4			G1/100
BL (0°-30°)	881.1	3.8	B2/1000		
BM (30°-60°)	2064.7	9.0	B2/2500		
BH (60°-80°)	1190.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	35.4	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°	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6
2.5°	4032.9	4056.1	4042.8	4036.2	4024.6	4008.0	3994.7	3953.3	3910.1	3882.0
5°	4114.1	4137.3	4135.7	4142.3	4150.6	4155.6	4152.2	4105.8	4044.5	3996.4
7.5°	4044.5	4071.0	4092.5	4125.7	4183.8	4245.1	4275.0	4265.0	4202.0	4135.7
10°	3847.1	3875.3	3926.7	4004.7	4127.4	4260.0	4371.1	4422.5	4382.7	4309.8
12.5°	3485.6	3513.8	3615.0	3784.1	3989.7	4220.2	4432.5	4570.1	4580.1	4507.1
15°	3079.4	3107.6	3215.3	3427.6	3741.0	4110.8	4465.7	4726.0	4813.9	4750.9
17.5°	2827.3	2852.2	2933.4	3104.2	3430.9	3891.9	4454.0	4891.8	5092.5	5042.7
20°	2751.0	2772.6	2810.7	2930.1	3202.1	3664.7	4377.8	5047.7	5392.6	5364.4
22.5°	2832.3	2852.2	2863.8	2916.9	3087.7	3515.5	4281.6	5206.9	5740.8	5744.2
25°	3019.7	3039.6	3026.3	3059.5	3134.1	3469.0	4245.1	5394.3	6178.6	6215.1
27.5°	3328.1	3329.8	3298.3	3296.6	3308.2	3538.7	4283.2	5594.9	6730.8	6798.8
30°	3946.6	3921.8	3800.7	3669.7	3610.0	3747.6	4389.4	5832.0	7382.5	7503.6
32.5°	4900.1	4863.6	4641.4	4328.0	4013.0	4084.3	4580.1	6102.3	8092.2	8311.1
35°	5934.9	5924.9	5692.8	5226.8	4676.3	4563.5	4890.2	6457.2	8866.6	9214.9
37.5°	6896.6	6891.7	6759.0	6210.1	5540.2	5231.8	5387.6	6921.5	9695.8	10199.9
40°	7775.5	7790.4	7657.8	7166.9	6492.0	6089.1	6064.2	7495.3	10617.7	11272.8
42.5°	8535.0	8551.6	8417.3	8054.1	7432.3	7037.6	6895.0	8198.4	11518.2	12425.2
45°	9050.7	9153.5	9133.6	8843.4	8397.4	7987.8	7893.2	9080.6	12544.6	13647.4
47.5°	9196.6	9291.1	9440.4	9480.2	9208.2	8805.3	8918.0	10143.5	13582.7	14871.1
50°	8836.8	8924.7	9234.8	9647.7	9836.7	9712.3	9914.7	11282.7	14645.6	16091.6
52.5°	8127.1	8216.6	8608.0	9261.3	10032.4	10423.7	10914.6	12405.3	15675.4	17247.4
55°	7100.6	7195.1	7697.6	8437.2	9659.3	10717.2	11748.7	13526.3	16618.9	18287.1
57.5°	5704.4	5774.0	6296.4	7331.1	8720.7	10425.4	12363.9	14750.1	17507.8	19308.6
60°	3717.8	3779.1	4386.1	5540.2	7165.3	9450.3	12486.6	16114.8	18688.4	20636.9
62.5°	2472.4	2513.9	2873.7	3721.1	5046.0	7578.2	11768.6	17204.3	20419.6	22948.5
65°	1696.4	1737.8	2097.7	2688.0	3260.1	5012.9	9704.1	17060.0	21988.3	24784.1
67.5°	1210.5	1245.3	1550.5	2107.6	2359.7	2911.9	6578.3	15216.1	21762.8	24853.8
70°	867.3	887.2	1139.2	1641.7	1875.5	1749.4	3658.1	11637.6	19054.9	22950.1
72.5°	606.9	613.6	791.0	1250.3	1510.7	1276.8	1741.2	7758.9	14411.8	18013.5
75°	411.2	419.5	532.3	917.0	1212.2	975.0	922.0	4160.5	8460.4	9971.0
77.5°	252.1	255.4	343.3	626.8	907.1	742.9	593.7	1762.7	3273.4	3213.7
80°	142.6	142.6	218.9	389.7	618.5	479.2	416.2	749.5	1036.4	910.4
82.5°	79.6	81.3	159.2	242.1	409.6	283.6	228.8	346.6	447.7	396.3
85°	33.2	36.5	97.8	114.4	195.7	141.0	92.9	145.9	165.8	147.6
87.5°	3.3	5.0	29.8	21.6	23.2	28.2	13.3	28.2	23.2	23.2
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°
3815.6	0°	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6	3815.6
3872.0	2.5°	3840.5	3815.6	3752.6	3679.6	3583.5	3537.0	3474.0	3430.9	3394.4	3397.7
3968.2	5°	3915.1	3852.1	3711.2	3535.4	3316.5	3160.6	2994.8	2880.4	2787.5	2767.6
4100.8	7.5°	4017.9	3918.4	3671.4	3354.6	2984.8	2704.6	2454.2	2293.4	2178.9	2142.5
4261.7	10°	4150.6	4006.3	3619.9	3127.5	2595.2	2238.6	1970.0	1844.0	1766.0	1739.5
4450.7	12.5°	4304.8	4107.5	3552.0	2850.5	2193.9	1850.6	1679.8	1616.8	1591.9	1583.6
4682.9	15°	4498.8	4233.5	3449.2	2522.2	1853.9	1613.5	1540.5	1532.2	1535.5	1532.2
4961.5	17.5°	4729.3	4371.1	3281.7	2183.9	1625.1	1492.4	1465.9	1472.5	1480.8	1479.2
5273.2	20°	4981.4	4507.1	3067.8	1883.8	1469.2	1406.2	1391.3	1397.9	1404.5	1401.2
5633.1	22.5°	5268.2	4653.0	2830.6	1650.0	1364.7	1326.6	1310.0	1311.7	1311.7	1305.0
6089.1	25°	5611.5	4813.9	2581.9	1484.1	1285.1	1255.3	1235.4	1228.8	1218.8	1198.9
6642.9	27.5°	6021.1	4984.7	2343.1	1368.1	1222.1	1193.9	1170.7	1154.1	1129.3	1096.1
7307.9	30°	6482.1	5192.0	2140.8	1295.1	1172.4	1144.2	1117.7	1092.8	1056.3	1014.8
8072.3	32.5°	7024.3	5414.2	1993.2	1247.0	1127.6	1097.8	1066.3	1036.4	996.6	955.1
8931.3	35°	7671.0	5682.8	1907.0	1213.8	1092.8	1053.0	1018.2	985.0	955.1	918.7
9864.9	37.5°	8372.5	5968.0	1880.5	1197.3	1069.6	1008.2	968.4	945.2	941.9	920.3
10874.8	40°	9140.2	6306.3	1900.3	1187.3	1044.7	965.1	922.0	917.0	925.3	887.2
11954.3	42.5°	9952.8	6707.6	1933.5	1175.7	1009.9	922.0	880.5	880.5	873.9	820.8
13095.2	45°	10831.7	7170.3	1966.7	1147.5	968.4	878.9	847.4	835.8	807.6	756.2
14242.7	47.5°	11717.2	7641.2	1991.6	1096.1	918.7	842.4	814.2	787.7	746.2	699.8
15368.6	50°	12557.9	8064.0	1965.0	1019.8	862.3	807.6	777.7	741.2	696.5	665.0
16434.9	52.5°	13309.1	8430.5	1852.3	930.3	802.6	771.1	744.6	706.4	669.9	636.8
17396.7	55°	13962.4	8727.3	1653.3	845.7	749.5	739.6	713.0	665.0	615.2	587.0
18350.1	57.5°	14589.2	8952.9	1404.5	776.1	701.4	704.8	665.0	621.8	575.4	545.6
19635.3	60°	15423.3	9254.7	1152.5	711.4	650.0	660.0	616.9	585.4	527.3	489.2
21839.1	62.5°	16756.6	9724.0	915.4	631.8	590.3	593.7	575.4	537.3	467.6	422.9
23472.5	65°	17814.5	9551.5	721.3	545.6	522.3	527.3	527.3	485.9	411.2	359.8
23560.4	67.5°	17695.1	8178.5	575.4	461.0	457.7	461.0	472.6	437.8	364.8	323.4
21766.1	70°	16300.6	6505.3	461.0	383.1	398.0	389.7	422.9	399.6	328.3	286.9
16874.3	72.5°	13300.8	4686.2	351.5	316.7	305.1	318.4	381.4	359.8	273.6	227.2
8937.9	75°	7772.2	2500.6	262.0	250.4	220.5	265.3	338.3	306.8	208.9	167.5
2739.4	77.5°	2530.5	872.2	192.4	184.1	164.2	213.9	288.5	258.7	170.8	132.7
802.6	80°	678.2	263.7	131.0	121.1	106.1	159.2	228.8	205.6	122.7	86.2
344.9	82.5°	272.0	111.1	76.3	68.0	58.0	109.4	180.7	165.8	91.2	54.7
107.8	85°	87.9	36.5	28.2	21.6	26.5	68.0	107.8	112.8	64.7	28.2
16.6	87.5°	11.6	5.0	5.0	6.6	5.0	11.6	33.2	31.5	18.2	3.3
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>
3815.6
3364.6
2722.8
2106.0
1719.6
1578.6
1530.6
1475.8
1399.6
1301.7
1195.6
1092.8
1011.5
956.8
915.4
918.7
888.8
820.8
754.5
698.1
660.0
633.4
583.7
542.2
484.2
419.5
354.9
316.7
281.9
222.2
162.5
127.7
84.6
54.7
21.6
0.0
0.0

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