

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: P942014

Luminaire Tested: **GALN-SB5D-827-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942014  
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-SB5D-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

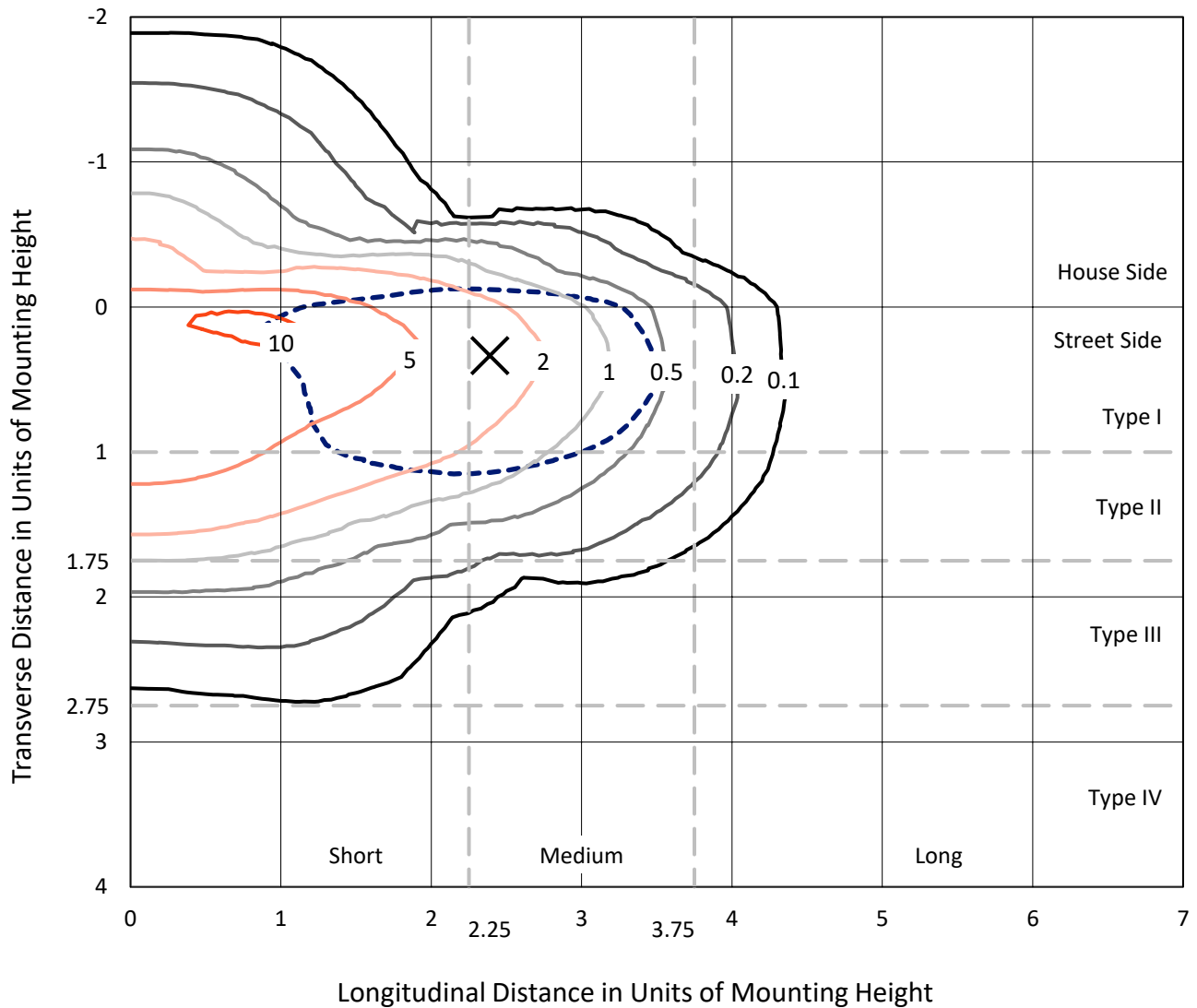
Lumens per Lamp: N/A  
Luminaire Lumens: 32639.9 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): 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

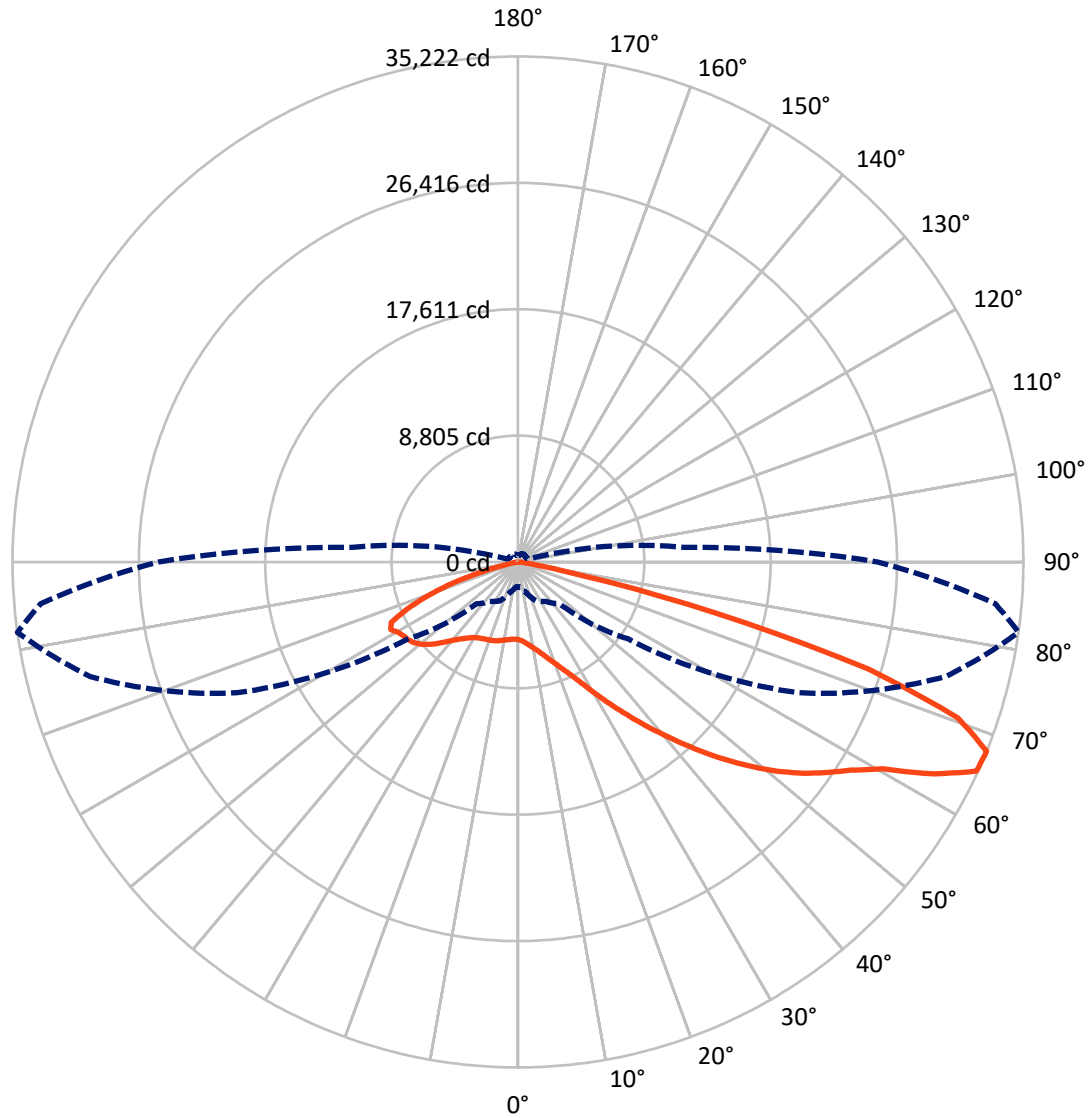
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	5912.4	0.0	5912.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	26727.5	0.0	26727.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	32639.9	0.0	32639.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	481.8	1.5
10°-20°	1251.9	3.8
20°-30°	2005.1	6.1
30°-40°	3545.7	10.9
40°-50°	6212.3	19.0
50°-60°	8285.5	25.4
60°-70°	7713.4	23.6
70°-80°	2960.4	9.1
80°-90°	183.8	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°	32639.9	100.0
0°-180°	32639.9	100.0

**Coefficient of Utilization**



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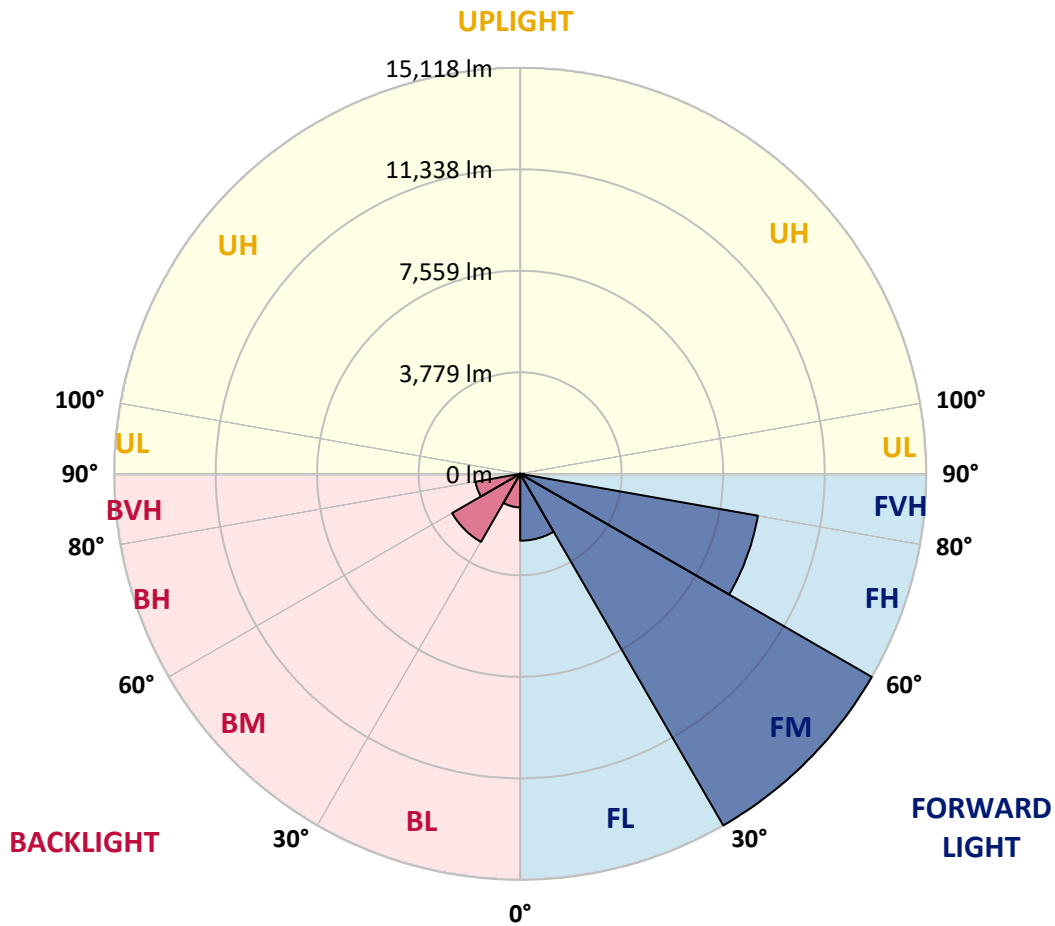
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2490.1	7.6			
FM (30°-60°)	15117.5	46.3			
FH (60°-80°)	8986.3	27.5			G4/12000
FVH (80°-90°)	133.7	0.4			G2/225
BL (0°-30°)	1248.7	3.8	B3/2500		
BM (30°-60°)	2926.0	9.0	B3/5000		
BH (60°-80°)	1687.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	50.2	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-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5407.3	5407.3	5407.3	5407.3	5407.3	5407.3	5407.3	5407.3	5407.3	5407.3
2.5°	5715.2	5748.1	5729.3	5719.9	5703.4	5679.9	5661.1	5602.4	5541.3	5501.3
5°	5830.3	5863.2	5860.9	5870.3	5882.0	5889.1	5884.4	5818.6	5731.6	5663.5
7.5°	5731.6	5769.2	5799.8	5846.8	5929.0	6016.0	6058.3	6044.2	5954.9	5860.9
10°	5452.0	5491.9	5564.8	5675.2	5849.1	6037.1	6194.6	6267.4	6211.0	6107.6
12.5°	4939.7	4979.6	5123.0	5362.7	5654.1	5980.7	6281.5	6476.6	6490.7	6387.3
15°	4363.9	4403.9	4556.6	4857.4	5301.6	5825.6	6328.5	6697.5	6822.0	6732.7
17.5°	4006.7	4042.0	4157.1	4399.2	4862.1	5515.4	6312.1	6932.5	7216.8	7146.3
20°	3898.6	3929.2	3983.2	4152.4	4537.8	5193.5	6204.0	7153.4	7642.2	7602.2
22.5°	4013.8	4042.0	4058.4	4133.6	4375.7	4982.0	6067.7	7379.0	8135.7	8140.4
25°	4279.3	4307.5	4288.7	4335.7	4441.5	4916.2	6016.0	7644.5	8756.1	8807.8
27.5°	4716.4	4718.8	4674.1	4671.8	4688.2	5014.9	6070.0	7928.9	9538.6	9635.0
30°	5593.0	5557.7	5386.2	5200.5	5115.9	5311.0	6220.4	8264.9	10462.2	10633.7
32.5°	6944.2	6892.5	6577.6	6133.5	5687.0	5788.0	6490.7	8648.0	11468.0	11778.2
35°	8410.6	8396.5	8067.5	7407.2	6627.0	6467.2	6930.1	9150.9	12565.4	13058.9
37.5°	9773.6	9766.6	9578.6	8800.7	7851.3	7414.2	7635.1	9808.9	13740.4	14454.8
40°	11019.1	11040.3	10852.3	10156.7	9200.2	8629.2	8593.9	10622.0	15047.0	15975.3
42.5°	12095.4	12118.9	11928.6	11413.9	10532.7	9973.4	9771.3	11618.4	16323.1	17608.5
45°	12826.3	12972.0	12943.8	12532.5	11900.4	11319.9	11186.0	12868.6	17777.7	19340.5
47.5°	13033.1	13167.0	13378.5	13434.9	13049.5	12478.5	12638.3	14374.9	19248.8	21074.8
50°	12523.1	12647.7	13087.1	13672.3	13940.2	13763.9	14050.6	15989.4	20755.2	22804.4
52.5°	11517.3	11644.2	12198.8	13124.7	14217.5	14772.1	15467.7	17580.3	22214.5	24442.3
55°	10062.7	10196.6	10908.7	11956.8	13688.7	15188.0	16649.7	19168.9	23551.7	25915.8
57.5°	8084.0	8182.7	8922.9	10389.3	12358.6	14774.4	17521.6	20903.2	24811.3	27363.4
60°	5268.7	5355.6	6215.7	7851.3	10154.3	13392.6	17695.5	22837.3	26484.5	29245.7
62.5°	3503.8	3562.6	4072.5	5273.4	7151.0	10739.5	16677.9	24381.2	28937.9	32521.6
65°	2404.0	2462.8	2972.7	3809.3	4620.1	7104.0	13752.2	24176.8	31161.0	35123.1
67.5°	1715.5	1764.8	2197.2	2986.8	3344.0	4126.6	9322.4	21563.6	30841.4	35221.8
70°	1229.0	1257.2	1614.4	2326.5	2657.8	2479.2	5184.1	16492.3	27003.8	32524.0
72.5°	860.1	869.5	1120.9	1771.9	2140.8	1809.5	2467.5	10995.6	20423.8	25528.0
75°	582.8	594.5	754.3	1299.5	1717.8	1381.8	1306.6	5896.1	11989.7	14130.5
77.5°	357.2	361.9	486.4	888.3	1285.4	1052.8	841.3	2498.0	4638.9	4554.3
80°	202.1	202.1	310.2	552.2	876.5	679.1	589.8	1062.2	1468.7	1290.1
82.5°	112.8	115.1	225.6	343.1	580.4	401.8	324.3	491.1	634.5	561.6
85°	47.0	51.7	138.6	162.1	277.3	199.7	131.6	206.8	235.0	209.1
87.5°	4.7	7.0	42.3	30.5	32.9	39.9	18.8	39.9	32.9	32.9
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°
5407.3	0°	5407.3	5407.3	5407.3	5407.3	5407.3	5407.3	5407.3	5407.3	5407.3	5407.3
5487.2	2.5°	5442.6	5407.3	5318.0	5214.6	5078.3	5012.5	4923.2	4862.1	4810.4	4815.1
5623.5	5°	5548.3	5459.0	5259.3	5010.2	4700.0	4479.1	4244.1	4081.9	3950.3	3922.1
5811.5	7.5°	5694.0	5553.0	5202.9	4754.0	4230.0	3832.8	3478.0	3250.0	3087.9	3036.2
6039.5	10°	5882.0	5677.6	5130.0	4432.1	3677.7	3172.5	2791.8	2613.2	2502.7	2465.1
6307.4	12.5°	6100.6	5820.9	5033.7	4039.6	3109.0	2622.6	2380.5	2291.2	2256.0	2244.2
6636.4	15°	6375.5	5999.5	4888.0	3574.3	2627.3	2286.5	2183.1	2171.4	2176.1	2171.4
7031.2	17.5°	6702.2	6194.6	4650.6	3094.9	2303.0	2115.0	2077.4	2086.8	2098.5	2096.2
7473.0	20°	7059.4	6387.3	4347.5	2669.6	2082.1	1992.8	1971.6	1981.0	1990.4	1985.7
7982.9	22.5°	7465.9	6594.1	4011.4	2338.2	1934.0	1880.0	1856.5	1858.8	1858.8	1849.4
8629.2	25°	7952.4	6822.0	3658.9	2103.2	1821.2	1778.9	1750.7	1741.3	1727.2	1699.0
9414.1	27.5°	8532.8	7064.1	3320.5	1938.7	1731.9	1692.0	1659.1	1635.6	1600.3	1553.3
10356.4	30°	9186.1	7357.8	3033.8	1835.3	1661.4	1621.5	1583.9	1548.6	1496.9	1438.2
11439.8	32.5°	9954.6	7672.7	2824.7	1767.2	1598.0	1555.7	1511.0	1468.7	1412.3	1353.6
12657.1	35°	10871.1	8053.4	2702.5	1720.2	1548.6	1492.2	1442.9	1395.9	1353.6	1301.9
13980.1	37.5°	11865.1	8457.6	2664.9	1696.7	1515.7	1428.8	1372.4	1339.5	1334.8	1304.2
15411.3	40°	12953.2	8937.0	2693.1	1682.6	1480.5	1367.7	1306.6	1299.5	1311.3	1257.2
16941.1	42.5°	14104.7	9505.7	2740.1	1666.1	1431.1	1306.6	1247.8	1247.8	1238.4	1163.2
18557.9	45°	15350.2	10161.4	2787.1	1626.2	1372.4	1245.5	1200.8	1184.4	1144.4	1071.6
20184.1	47.5°	16605.1	10828.8	2822.3	1553.3	1301.9	1193.8	1153.8	1116.2	1057.5	991.7
21779.8	50°	17796.5	11428.0	2784.7	1445.2	1222.0	1144.4	1102.1	1050.4	987.0	942.3
23290.8	52.5°	18861.1	11947.4	2624.9	1318.3	1137.4	1092.7	1055.1	1001.1	949.4	902.4
24653.8	55°	19787.0	12368.0	2342.9	1198.5	1062.2	1048.1	1010.5	942.3	871.8	831.9
26005.1	57.5°	20675.3	12687.6	1990.4	1099.8	994.0	998.7	942.3	881.2	815.4	773.1
27826.3	60°	21857.3	13115.3	1633.2	1008.1	921.2	935.3	874.2	829.5	747.3	693.2
30949.5	62.5°	23746.7	13780.4	1297.2	895.3	836.6	841.3	815.4	761.4	662.7	599.2
33264.2	65°	25246.0	13536.0	1022.2	773.1	740.2	747.3	747.3	688.5	582.8	509.9
33388.8	67.5°	25076.8	11590.2	815.4	653.3	648.6	653.3	669.7	620.4	517.0	458.2
30846.1	70°	23100.5	9219.0	653.3	542.8	564.0	552.2	599.2	566.3	465.3	406.5
23913.6	72.5°	18849.3	6641.1	498.2	448.8	432.4	451.2	540.5	509.9	387.7	321.9
12666.5	75°	11014.4	3543.8	371.3	354.8	312.5	376.0	479.4	434.7	296.1	237.3
3882.2	77.5°	3586.1	1236.1	272.6	260.8	232.6	303.1	408.9	366.6	242.0	188.0
1137.4	80°	961.1	373.6	185.6	171.5	150.4	225.6	324.3	291.4	173.9	122.2
488.8	82.5°	385.4	157.4	108.1	96.3	82.2	155.1	256.1	235.0	129.2	77.5
152.7	85°	124.5	51.7	39.9	30.5	37.6	96.3	152.7	159.8	91.6	39.9
23.5	87.5°	16.4	7.0	7.0	9.4	7.0	16.4	47.0	44.6	25.8	4.7
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>
5407.3
4768.1
3858.7
2984.5
2436.9
2237.2
2169.0
2091.5
1983.4
1844.7
1694.3
1548.6
1433.5
1355.9
1297.2
1301.9
1259.6
1163.2
1069.2
989.3
935.3
897.7
827.2
768.4
686.2
594.5
502.9
448.8
399.5
314.9
230.3
180.9
119.8
77.5
30.5
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0.0

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