

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: P942016

Luminaire Tested: **GALN-SB5D-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
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-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35056 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

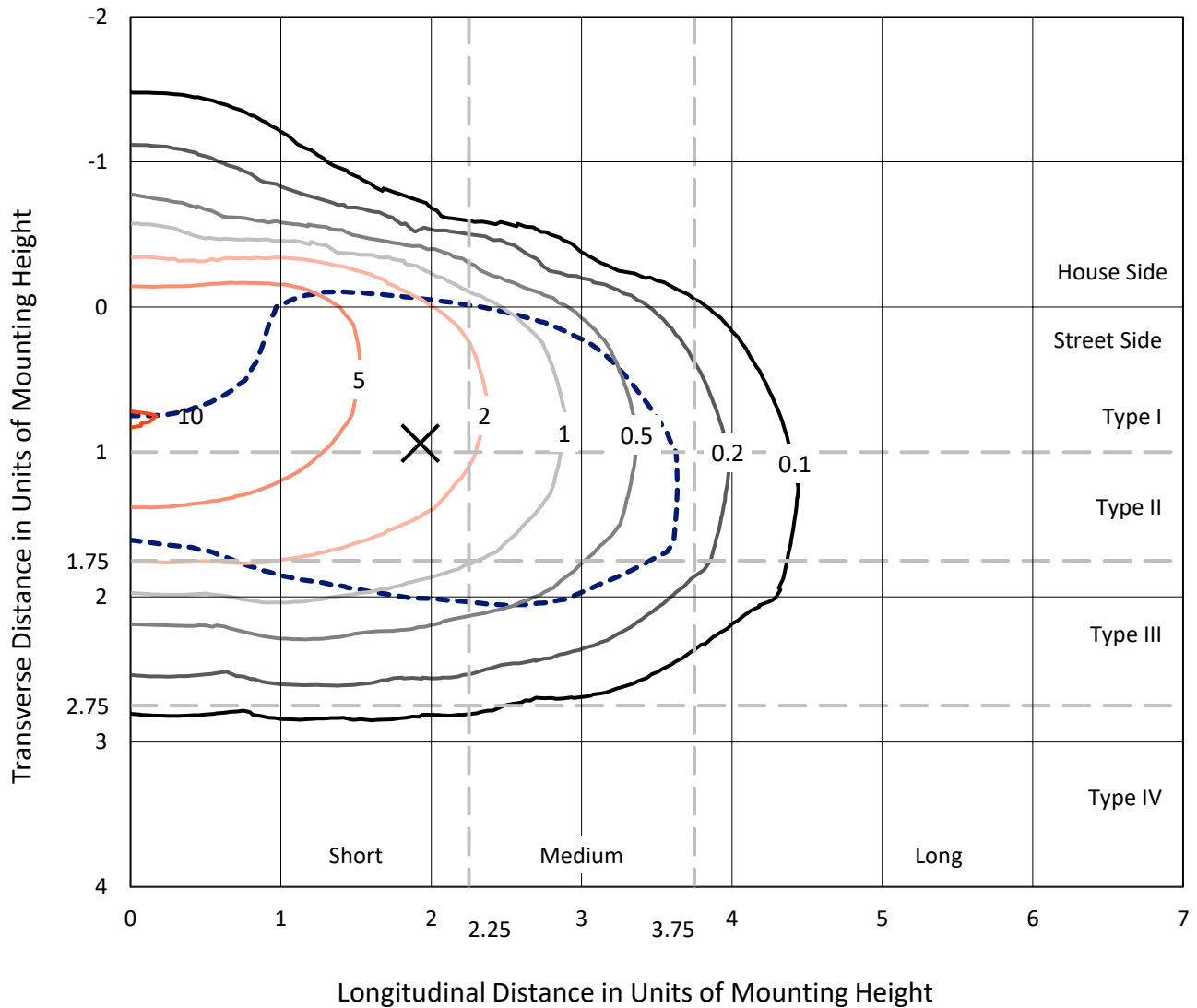
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

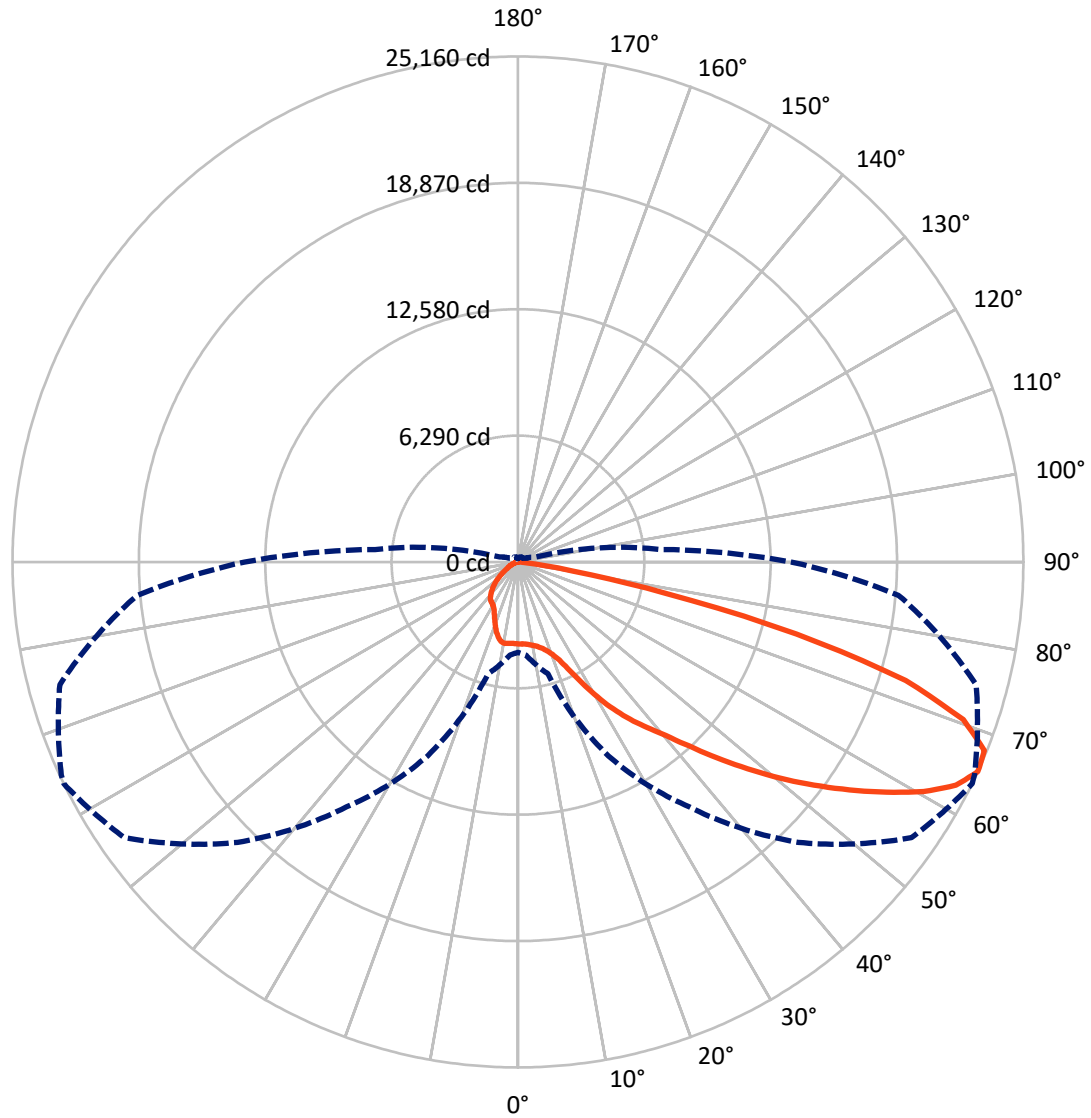
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4688.1	0.0	4688.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	30367.9	0.0	30367.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	35056.0	0.0	35056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.2	1.1
10°-20°	1020.3	2.9
20°-30°	1933.4	5.5
30°-40°	3912.3	11.2
40°-50°	6664.6	19.0
50°-60°	9063.3	25.9
60°-70°	8510.9	24.3
70°-80°	3409.8	9.7
80°-90°	165.2	0.5
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°	35056.0	100.0
0°-180°	35056.0	100.0

Coefficient of Utilization



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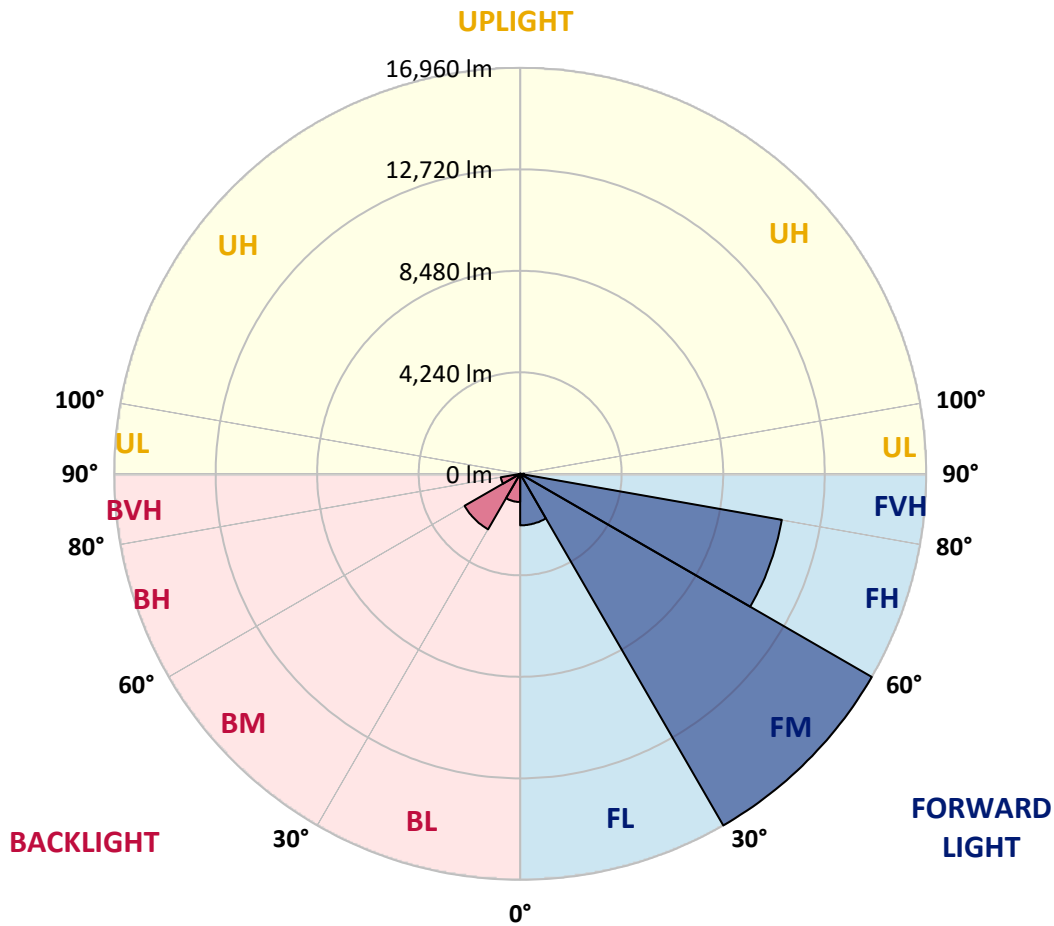
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2152.8	6.1			
FM (30°-60°)	16960.0	48.4			
FH (60°-80°)	11097.9	31.7			G4/12000
FVH (80°-90°)	157.1	0.4			G2/225
BL (0°-30°)	1177.0	3.4	B3/2500		
BM (30°-60°)	2680.1	7.6	B3/5000		
BH (60°-80°)	822.8	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4077.4	4077.4	4077.4	4077.4	4077.4	4077.4	4077.4	4077.4	4077.4	4077.4
2.5°	4063.3	4091.5	4084.4	4077.4	4075.0	4079.7	4082.1	4079.7	4079.7	4079.7
5°	3985.7	4009.2	4009.2	4025.7	4049.2	4077.4	4098.5	4103.2	4107.9	4115.0
7.5°	3837.7	3856.5	3870.6	3924.6	3983.4	4058.6	4122.0	4154.9	4159.6	4185.5
10°	3736.6	3760.1	3783.6	3840.0	3924.6	4037.4	4145.5	4225.4	4237.2	4298.3
12.5°	3731.9	3755.4	3786.0	3847.1	3945.8	4065.6	4197.2	4312.4	4333.5	4422.8
15°	3781.3	3809.5	3837.7	3912.9	4018.6	4164.3	4305.3	4448.7	4469.8	4596.7
17.5°	3882.3	3919.9	3941.1	4016.3	4129.1	4291.2	4476.9	4641.4	4660.2	4808.2
20°	4082.1	4126.7	4133.8	4194.9	4305.3	4479.2	4700.1	4904.6	4928.1	5097.3
22.5°	4495.7	4559.1	4502.7	4533.3	4632.0	4805.9	5045.6	5304.1	5337.0	5529.7
25°	5224.2	5313.5	5167.8	5116.1	5158.4	5339.4	5640.2	5966.8	6004.4	6159.5
27.5°	6655.4	6540.3	6319.3	6103.1	5976.2	6079.6	6418.0	6822.3	6869.3	7019.7
30°	8227.6	8126.6	7828.1	7348.7	7047.9	7031.4	7344.0	7795.2	7849.2	7992.6
32.5°	9802.2	9705.8	9381.5	8791.6	8269.9	8011.4	8227.6	8728.2	8756.4	8848.0
35°	11350.9	11252.1	10927.8	10323.9	9682.3	9094.8	9052.5	9616.5	9625.9	9722.3
37.5°	12909.0	12826.7	12481.2	11889.0	11256.9	10446.1	10053.6	10457.8	10469.6	10563.6
40°	14020.5	14055.8	13818.4	13360.2	12817.3	11931.3	11176.9	11353.2	11282.7	11440.2
42.5°	14974.7	15045.2	14838.4	14608.1	14293.1	13512.9	12568.2	12537.6	12424.8	12509.4
45°	15799.5	15858.3	15672.6	15618.6	15611.5	15064.0	14088.7	13905.4	13747.9	13731.5
47.5°	16102.7	16215.5	16295.4	16476.4	16828.9	16598.6	15660.9	15376.5	15200.3	15071.0
50°	16217.9	16337.7	16610.3	17136.7	17971.0	18069.7	17226.0	16906.4	16690.2	16455.2
52.5°	16062.7	16276.6	16643.2	17529.2	18739.5	19249.4	18727.7	18448.1	18201.3	17818.3
55°	15148.6	15362.4	16112.1	17524.5	19122.5	20076.7	20147.2	20022.6	19745.3	19141.3
57.5°	13221.5	13538.8	14725.6	16927.6	19115.5	20788.7	21538.4	21627.7	21317.5	20452.7
60°	10551.8	10981.9	12429.5	15604.5	18525.6	21174.2	22758.1	23204.6	22875.6	21745.2
62.5°	7362.8	7861.0	9231.1	13531.7	17176.7	20896.8	23648.8	24473.7	24224.6	22901.5
65°	4491.0	4650.8	5755.3	10648.2	14883.0	19735.9	23923.7	25159.9	25077.6	23608.8
67.5°	2991.6	3125.6	3442.9	7301.7	11553.0	17416.4	23265.7	25040.0	25063.5	23493.7
70°	1802.5	1917.7	2124.5	4246.6	7487.3	13785.5	21228.2	23512.5	23648.8	21954.4
72.5°	742.6	820.2	1008.2	1924.7	3877.6	8749.3	16904.1	20187.1	20504.4	18459.8
75°	420.7	460.6	592.2	965.9	1682.7	4077.4	10239.3	14330.7	14798.4	12723.3
77.5°	279.7	298.5	383.1	625.1	947.1	1391.2	4375.8	7466.2	8359.2	6949.2
80°	188.0	204.5	263.2	418.3	615.7	596.9	1393.6	2766.0	3402.9	2387.7
82.5°	126.9	129.3	188.0	275.0	390.1	289.1	411.3	860.1	1081.0	690.9
85°	72.9	70.5	138.7	159.8	173.9	119.9	124.6	258.5	338.4	291.4
87.5°	9.4	14.1	54.1	42.3	23.5	25.9	25.9	44.7	65.8	70.5
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°
4077.4	0°	4077.4	4077.4	4077.4	4077.4	4077.4	4077.4	4077.4	4077.4	4077.4	4077.4
4082.1	2.5°	4082.1	4079.7	4072.7	4065.6	4049.2	4039.8	4044.5	4039.8	4037.4	4039.8
4112.6	5°	4112.6	4105.6	4086.8	4063.3	4030.4	3990.4	3964.6	3927.0	3891.7	3870.6
4194.9	7.5°	4194.9	4187.8	4162.0	4096.2	3990.4	3823.6	3670.8	3536.9	3435.8	3377.1
4326.5	10°	4326.5	4314.7	4274.8	4129.1	3851.8	3487.5	3184.3	2932.9	2768.4	2690.8
4481.6	12.5°	4481.6	4467.5	4397.0	4098.5	3588.6	3019.8	2601.5	2321.9	2169.1	2101.0
4660.2	15°	4664.9	4646.1	4507.4	3952.8	3205.5	2502.8	2119.8	1910.6	1811.9	1750.8
4888.2	17.5°	4892.9	4860.0	4589.7	3734.3	2789.5	2108.0	1823.7	1666.2	1579.2	1520.5
5186.6	20°	5189.0	5134.9	4655.5	3473.4	2406.5	1858.9	1623.9	1492.3	1426.5	1374.8
5609.6	22.5°	5602.6	5525.0	4735.4	3191.4	2136.2	1687.4	1475.8	1379.5	1325.4	1266.7
6199.5	25°	6114.9	6023.2	4834.1	2930.5	1950.6	1539.3	1367.7	1287.8	1224.4	1156.2
6972.7	27.5°	6831.7	6667.2	4951.6	2716.7	1790.8	1412.4	1269.0	1179.7	1106.9	1050.5
7849.2	30°	7630.7	7360.4	5055.0	2587.4	1645.1	1294.9	1139.8	1050.5	982.3	942.4
8636.5	32.5°	8387.4	8020.8	5123.2	2531.0	1513.4	1160.9	998.8	902.4	850.7	839.0
9407.3	35°	9101.8	8617.7	5116.1	2477.0	1395.9	1027.0	860.1	761.4	721.5	728.5
10236.9	37.5°	9924.4	9254.6	5066.8	2392.4	1299.6	904.8	740.3	653.3	618.1	620.4
11245.1	40°	10880.8	9990.2	5036.2	2232.6	1193.8	792.0	641.6	571.1	545.2	535.8
12307.3	42.5°	11900.8	10702.2	5040.9	2051.6	1062.2	690.9	573.4	514.7	491.2	484.1
13489.4	45°	12925.4	11381.4	5048.0	1863.6	923.6	613.4	524.1	474.7	460.6	451.2
14688.0	47.5°	13888.9	11959.5	4916.4	1661.5	787.3	554.6	484.1	451.2	439.5	427.7
15891.2	50°	14786.7	12344.9	4599.1	1426.5	679.2	507.6	453.6	430.1	418.3	406.6
16981.6	52.5°	15484.6	12406.0	4075.0	1184.4	604.0	472.4	434.8	413.6	399.5	387.8
17862.9	55°	15794.8	12023.0	3330.1	958.8	545.2	441.8	416.0	394.8	378.4	366.6
18556.2	57.5°	15714.9	11216.9	2596.8	770.8	488.8	411.3	392.5	378.4	359.6	340.8
19117.8	60°	15322.5	10138.2	1957.6	641.6	437.1	378.4	366.6	354.9	329.0	300.8
19334.1	62.5°	14643.3	8782.2	1395.9	531.1	380.7	340.8	336.1	326.7	289.1	237.4
19014.4	65°	13604.6	7134.8	940.0	441.8	326.7	298.5	300.8	284.4	235.0	176.3
17844.1	67.5°	12086.4	5217.2	601.6	361.9	272.6	249.1	251.5	242.1	199.8	150.4
15625.6	70°	10152.3	3454.6	392.5	275.0	218.6	192.7	206.8	209.2	169.2	122.2
11992.4	72.5°	7442.7	2039.9	275.0	204.5	159.8	134.0	169.2	173.9	136.3	91.7
7214.7	75°	4241.9	968.2	206.8	148.1	98.7	94.0	131.6	131.6	94.0	61.1
3123.2	77.5°	1781.4	404.2	145.7	96.4	56.4	54.1	89.3	82.3	47.0	28.2
761.4	80°	514.7	181.0	77.6	47.0	23.5	21.2	35.3	25.9	11.8	4.7
289.1	82.5°	202.1	79.9	30.6	18.8	9.4	9.4	4.7	0.0	0.0	0.0
164.5	85°	119.9	32.9	14.1	7.1	2.4	0.0	0.0	0.0	0.0	0.0
35.3	87.5°	30.6	7.1	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
4077.4
4049.2
3875.3
3379.4
2683.8
2093.9
1753.2
1515.8
1365.4
1257.3
1149.2
1038.7
935.3
846.0
728.5
629.8
533.5
481.8
451.2
427.7
406.6
385.4
364.3
338.4
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232.7
171.6
143.4
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