

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: P954738

Luminaire Tested: **GALN-SB7D-927-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-927-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36674 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

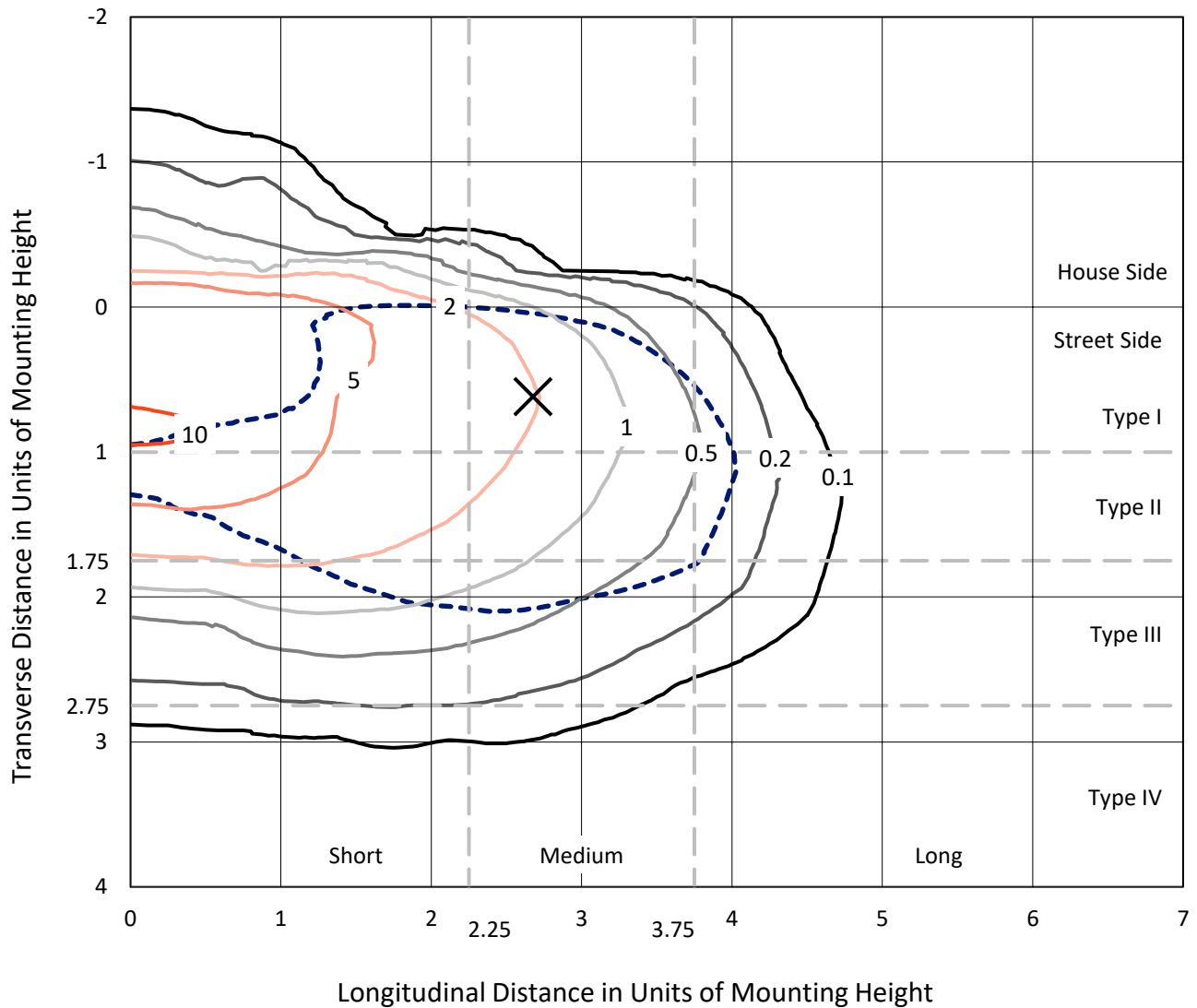
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

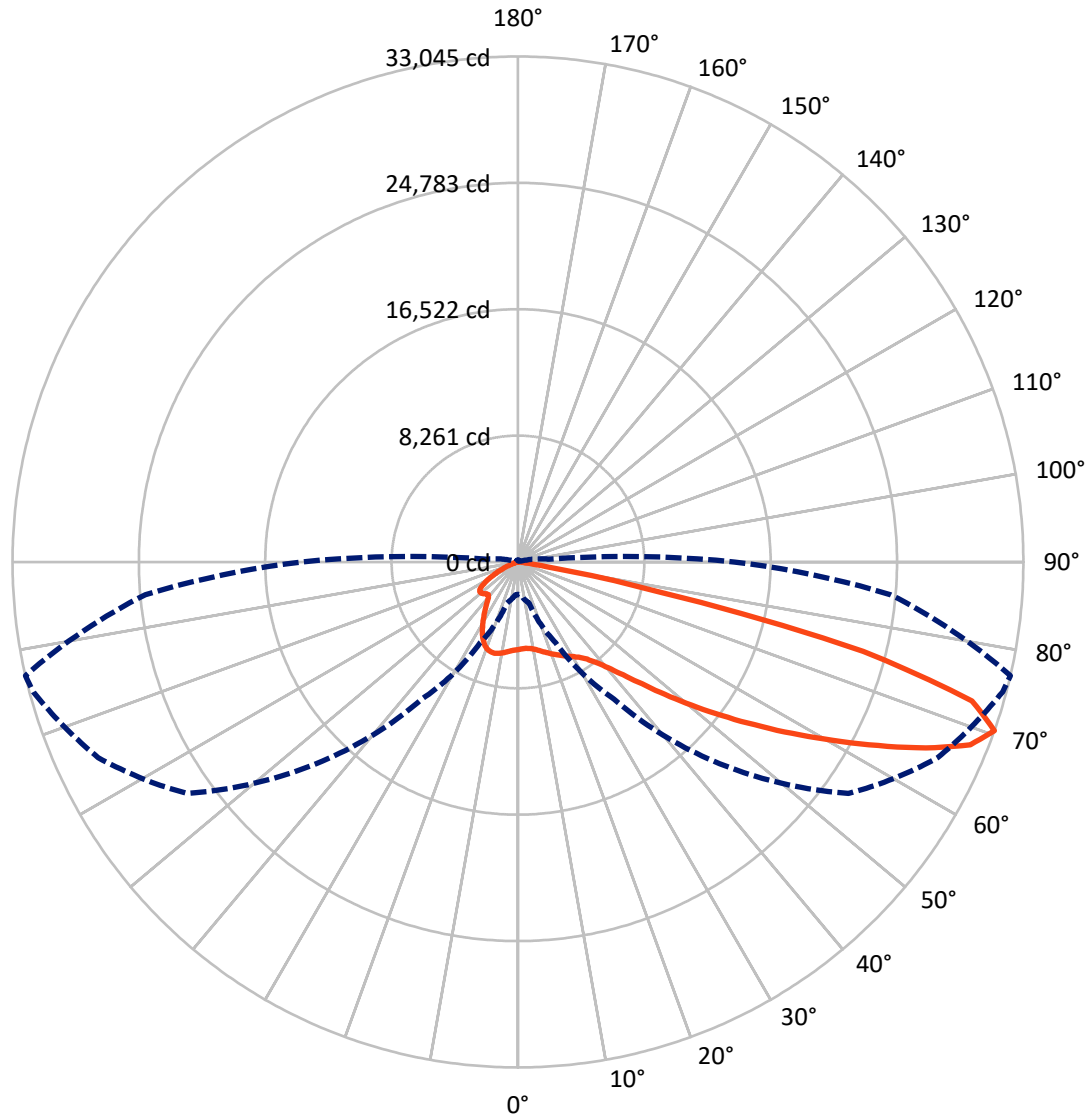
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3866.0	0.0	3866.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	32808.0	0.0	32808.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	36674.0	0.0	36674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.0	1.3
10°-20°	1170.4	3.2
20°-30°	1810.2	4.9
30°-40°	3284.7	9.0
40°-50°	6200.4	16.9
50°-60°	8959.0	24.4
60°-70°	9536.6	26.0
70°-80°	5053.7	13.8
80°-90°	165.9	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°	36674.0	100.0
0°-180°	36674.0	100.0

Coefficient of Utilization



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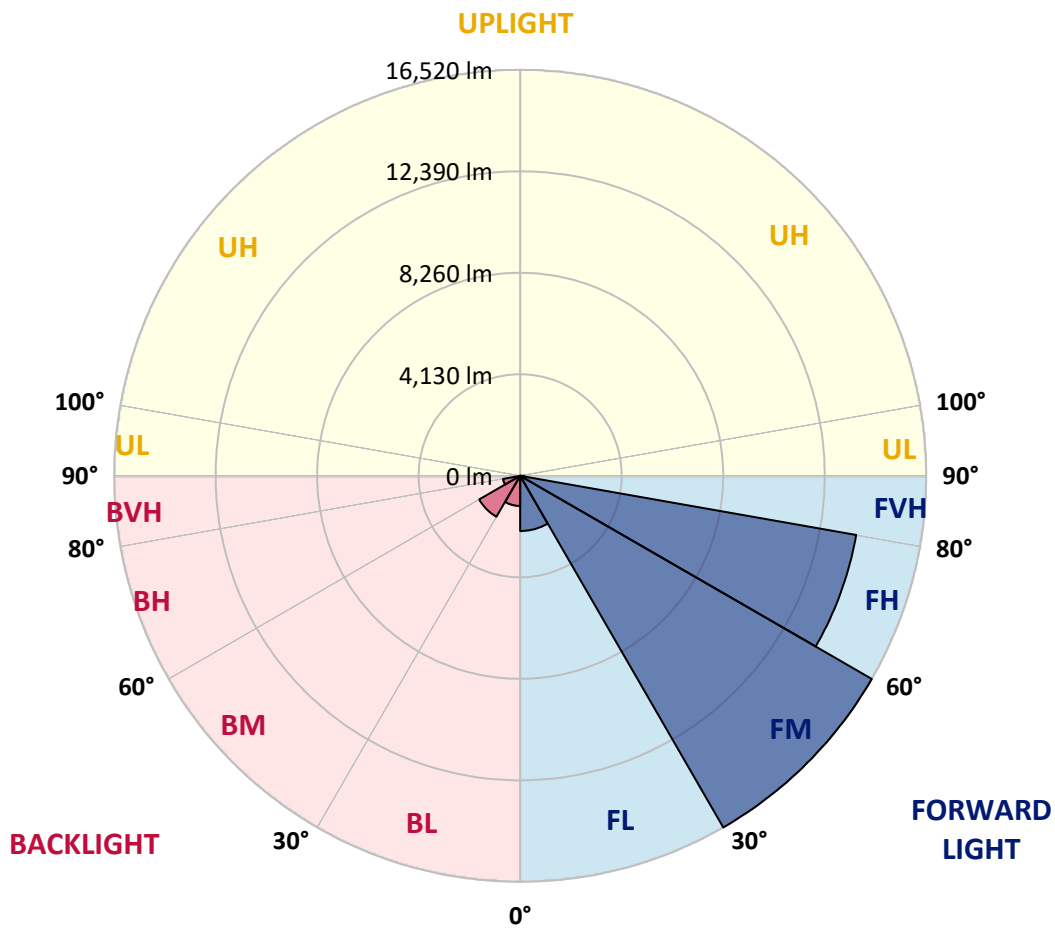
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2245.3	6.1			
FM (30°-60°)	16519.6	45.0			
FH (60°-80°)	13881.6	37.9			G5
FVH (80°-90°)	161.5	0.4			G2/225
BL (0°-30°)	1228.3	3.3	B3/2500		
BM (30°-60°)	1924.5	5.2	B2/2500		
BH (60°-80°)	708.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.5	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-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5720.5	5720.5	5720.5	5720.5	5720.5	5720.5	5720.5	5720.5	5720.5	5720.5
2.5°	5370.8	5419.4	5412.5	5444.9	5456.5	5502.8	5549.1	5611.6	5681.1	5678.8
5°	5067.4	5116.0	5127.6	5171.6	5227.2	5299.0	5393.9	5519.0	5648.7	5669.5
7.5°	4708.4	4759.3	4789.5	4877.5	4979.4	5127.6	5282.8	5465.7	5681.1	5711.2
10°	4349.4	4395.7	4435.1	4560.2	4722.3	4942.3	5194.8	5458.8	5748.3	5792.3
12.5°	4127.1	4171.1	4215.1	4323.9	4525.4	4794.1	5136.9	5491.2	5859.4	5922.0
15°	4048.3	4087.7	4122.5	4219.7	4407.3	4713.0	5125.3	5558.4	6000.7	6084.1
17.5°	4059.9	4080.8	4103.9	4178.0	4361.0	4676.0	5146.1	5674.2	6167.5	6241.6
20°	4127.1	4138.7	4141.0	4191.9	4354.1	4671.3	5187.8	5785.3	6325.0	6424.5
22.5°	4212.8	4217.4	4212.8	4247.5	4398.1	4706.1	5243.4	5919.7	6501.0	6593.6
25°	4613.4	4525.4	4414.3	4347.1	4472.2	4773.2	5326.8	6100.3	6693.2	6783.5
27.5°	5857.1	5604.7	5206.3	4759.3	4625.0	4870.5	5442.6	6283.3	6887.7	6968.8
30°	7876.7	7545.5	6869.2	5861.8	5116.0	5074.3	5593.1	6466.2	7093.9	7181.9
32.5°	9900.8	9819.8	9039.3	7645.1	6220.7	5528.3	5843.2	6714.0	7367.1	7436.6
35°	11948.2	11783.7	11144.5	9766.5	7923.0	6452.3	6260.1	7038.3	7726.1	7804.9
37.5°	13516.1	13416.5	13020.5	11885.6	9942.5	7879.0	6973.4	7540.8	8247.2	8335.2
40°	14901.0	14854.7	14720.4	13972.3	12200.6	9745.7	8082.8	8319.0	8969.8	9074.0
42.5°	15989.6	16098.4	16174.8	15966.4	14528.2	11876.4	9574.3	9412.2	9977.3	10083.8
45°	17103.5	17140.6	17448.6	17749.7	16839.5	14104.3	11255.7	10692.9	11230.2	11362.2
47.5°	17819.2	17967.4	18509.3	19039.7	18782.6	16313.8	13062.2	12205.2	12682.3	12930.1
50°	17872.5	18152.7	18898.4	19822.5	20197.7	18416.7	15026.1	13928.3	14435.5	14708.8
52.5°	16985.4	17420.8	18576.5	19929.0	20962.0	20197.7	17057.2	15651.4	16302.2	16658.9
55°	13022.8	13592.5	17365.3	19350.1	20992.1	21547.9	19035.1	17446.3	18382.0	18785.0
57.5°	11346.0	11633.2	13652.7	18344.9	20433.9	22092.2	20823.0	19155.5	20644.7	21144.9
60°	9440.0	9817.5	11450.2	16700.6	19676.6	22145.4	22402.5	21360.3	23097.3	23660.1
62.5°	6415.3	6825.2	8448.7	13875.1	18641.4	22120.0	23697.2	23630.0	25823.2	26427.7
65°	3974.2	4231.3	5301.3	11329.8	17193.9	22147.8	25052.0	26386.0	28699.7	29313.4
67.5°	3140.5	3258.6	3816.7	8698.8	14699.6	21522.4	26404.5	28977.6	31407.1	31893.4
70°	2109.9	2181.7	2776.9	5831.6	10936.1	18636.7	26379.1	30279.2	32801.3	33044.5
72.5°	1111.7	1167.3	1623.5	2700.4	6605.2	13247.4	22235.8	28722.8	31414.0	31048.1
75°	555.8	648.5	1093.1	1371.1	2820.9	7388.0	13807.9	22645.7	24725.5	23308.1
77.5°	421.5	509.5	903.2	903.2	982.0	2487.4	5847.9	12351.1	11392.3	9486.3
80°	268.7	347.4	789.8	683.2	409.9	632.3	1523.9	3460.1	2420.2	1841.2
82.5°	157.5	227.0	657.7	451.6	229.3	233.9	430.8	736.5	627.6	488.7
85°	62.5	148.2	451.6	178.3	90.3	57.9	129.7	157.5	129.7	97.3
87.5°	0.0	34.7	78.7	0.0	6.9	4.6	9.3	11.6	11.6	9.3
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°
5720.5	0°	5720.5	5720.5	5720.5	5720.5	5720.5	5720.5	5720.5	5720.5	5720.5	5720.5
5725.1	2.5°	5746.0	5750.6	5764.5	5766.8	5734.4	5692.7	5676.5	5669.5	5641.7	5639.4
5762.2	5°	5815.4	5836.3	5815.4	5755.2	5611.6	5410.1	5257.3	5132.2	5018.7	4984.0
5889.5	7.5°	5954.4	5975.2	5912.7	5676.5	5315.2	4914.5	4553.2	4298.5	4069.2	3983.5
6044.7	10°	6153.6	6181.4	5984.5	5507.4	4868.2	4224.4	3612.9	3182.2	2846.3	2709.7
6255.5	12.5°	6403.7	6415.3	6023.9	5250.3	4286.9	3367.4	2501.3	2040.4	1741.6	1630.5
6510.2	15°	6679.3	6663.1	6028.5	4900.6	3494.8	2380.8	1632.8	1341.0	1220.5	1183.5
6765.0	17.5°	6968.8	6901.6	5935.9	4395.7	2626.3	1628.1	1211.3	1141.8	1120.9	1111.7
7017.4	20°	7253.7	7103.1	5766.8	3735.7	1885.2	1215.9	1100.1	1079.2	1067.7	1063.0
7272.2	22.5°	7513.1	7256.0	5477.3	2969.1	1368.7	1074.6	1039.9	1021.3	1000.5	991.2
7520.0	25°	7765.5	7344.0	5069.7	2253.5	1095.5	1005.1	977.3	942.6	914.8	903.2
7786.3	27.5°	8011.0	7399.6	4560.2	1667.5	977.3	940.3	889.3	840.7	819.9	815.2
8071.2	30°	8272.7	7418.1	3981.2	1243.7	905.5	859.2	785.1	729.5	718.0	720.3
8455.7	32.5°	8592.3	7445.9	3397.5	1019.0	845.3	762.0	674.0	616.1	606.8	616.1
9016.1	35°	8974.4	7501.5	2834.8	938.0	792.1	662.4	567.4	518.8	509.5	516.5
9734.1	37.5°	9493.2	7591.8	2309.0	921.8	748.1	579.0	477.1	437.7	437.7	440.0
10614.2	40°	10183.4	7832.7	1838.9	910.2	724.9	516.5	403.0	386.8	393.7	398.3
11735.1	42.5°	11024.1	8344.5	1521.6	896.3	699.4	488.7	365.9	359.0	370.6	375.2
13078.4	45°	11966.7	8993.0	1410.4	873.1	676.3	507.2	349.7	340.4	354.3	356.7
14583.8	47.5°	12941.7	9627.5	1396.5	847.7	653.1	535.0	345.1	324.2	340.4	342.8
16191.0	50°	13928.3	10042.1	1410.4	808.3	616.1	535.0	347.4	308.0	321.9	328.9
17858.6	52.5°	14921.9	10232.0	1401.2	722.6	551.2	502.6	347.4	294.1	308.0	312.7
19660.4	55°	15885.3	10195.0	1259.9	595.2	467.8	444.7	338.1	282.6	291.8	294.1
21362.6	57.5°	16647.3	9678.5	998.2	463.2	379.8	370.6	308.0	268.7	275.6	273.3
22923.6	60°	17045.6	8543.7	713.3	356.7	298.8	291.8	271.0	250.1	254.8	243.2
24246.0	62.5°	17050.3	7042.9	477.1	282.6	238.5	231.6	231.6	224.7	220.0	196.9
25269.7	65°	16686.7	5377.7	317.3	224.7	192.2	180.6	194.5	192.2	176.0	143.6
25582.4	67.5°	15862.2	3524.9	240.9	176.0	148.2	141.3	155.2	162.1	150.5	120.4
24442.9	70°	14166.9	2052.0	199.2	136.6	111.2	104.2	125.1	139.0	125.1	97.3
20892.5	72.5°	11767.5	1107.0	162.1	101.9	76.4	69.5	99.6	113.5	99.6	71.8
13404.9	75°	7635.8	592.9	125.1	67.2	39.4	44.0	74.1	83.4	69.5	46.3
3934.9	77.5°	2563.8	261.7	78.7	32.4	18.5	18.5	44.0	51.0	32.4	16.2
715.6	80°	572.0	108.9	32.4	13.9	6.9	6.9	9.3	9.3	4.6	0.0
220.0	82.5°	187.6	44.0	13.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0
55.6	85°	71.8	16.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18.5	87.5°	27.8	2.3	0.0	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

180°
5720.5
5644.1
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2651.8
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1109.4
1058.4
988.9
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