

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: P944526

Luminaire Tested: **GALN-SB9C-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944526
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-SB9C-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 615mA 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: 53498 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

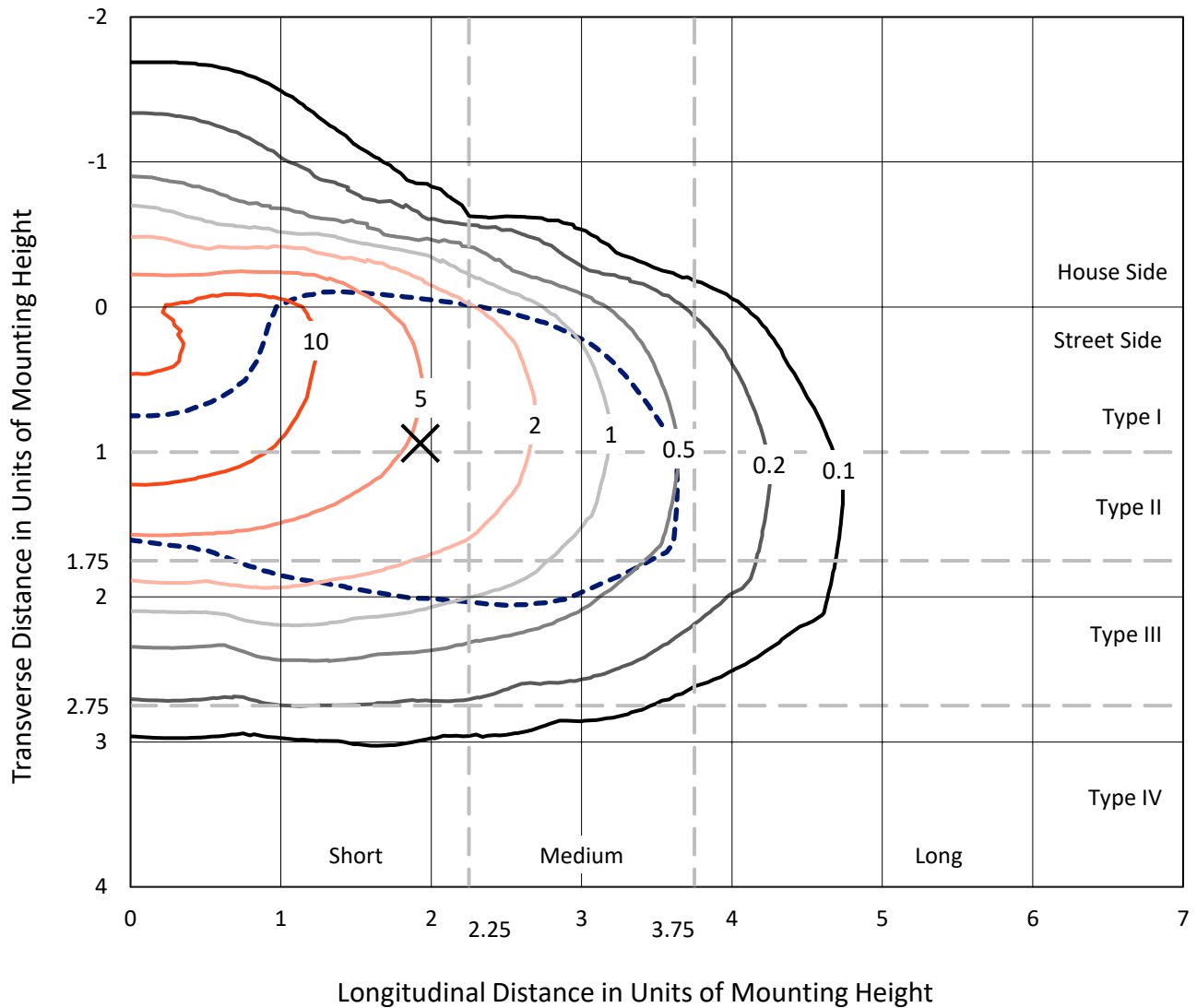
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

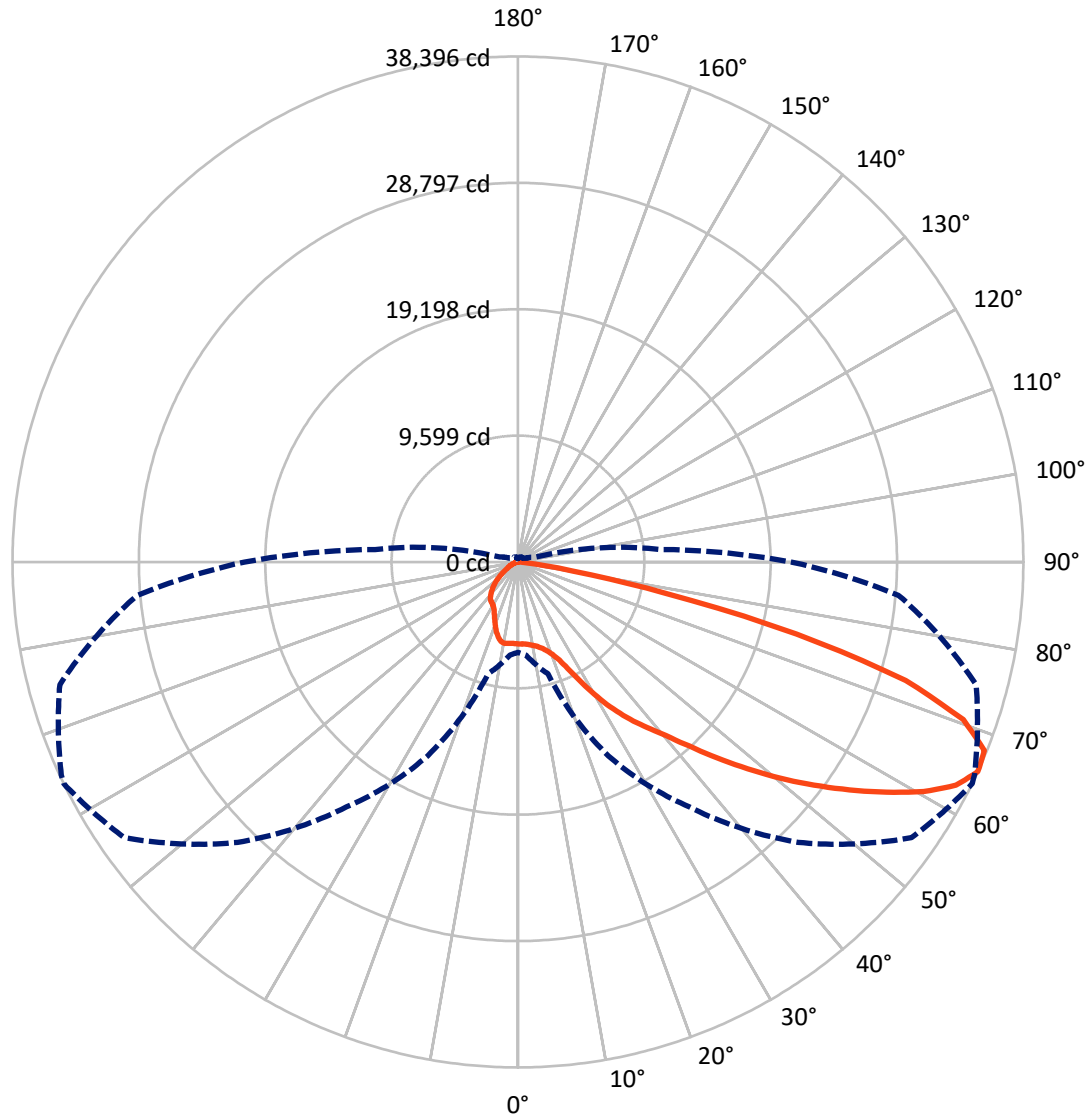
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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	7154.3	0.0	7154.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	46343.7	0.0	46343.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	53498.0	0.0	53498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.1	1.1
10°-20°	1557.1	2.9
20°-30°	2950.5	5.5
30°-40°	5970.4	11.2
40°-50°	10170.6	19.0
50°-60°	13831.3	25.9
60°-70°	12988.3	24.3
70°-80°	5203.7	9.7
80°-90°	252.1	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°	53498.0	100.0
0°-180°	53498.0	100.0

Coefficient of Utilization



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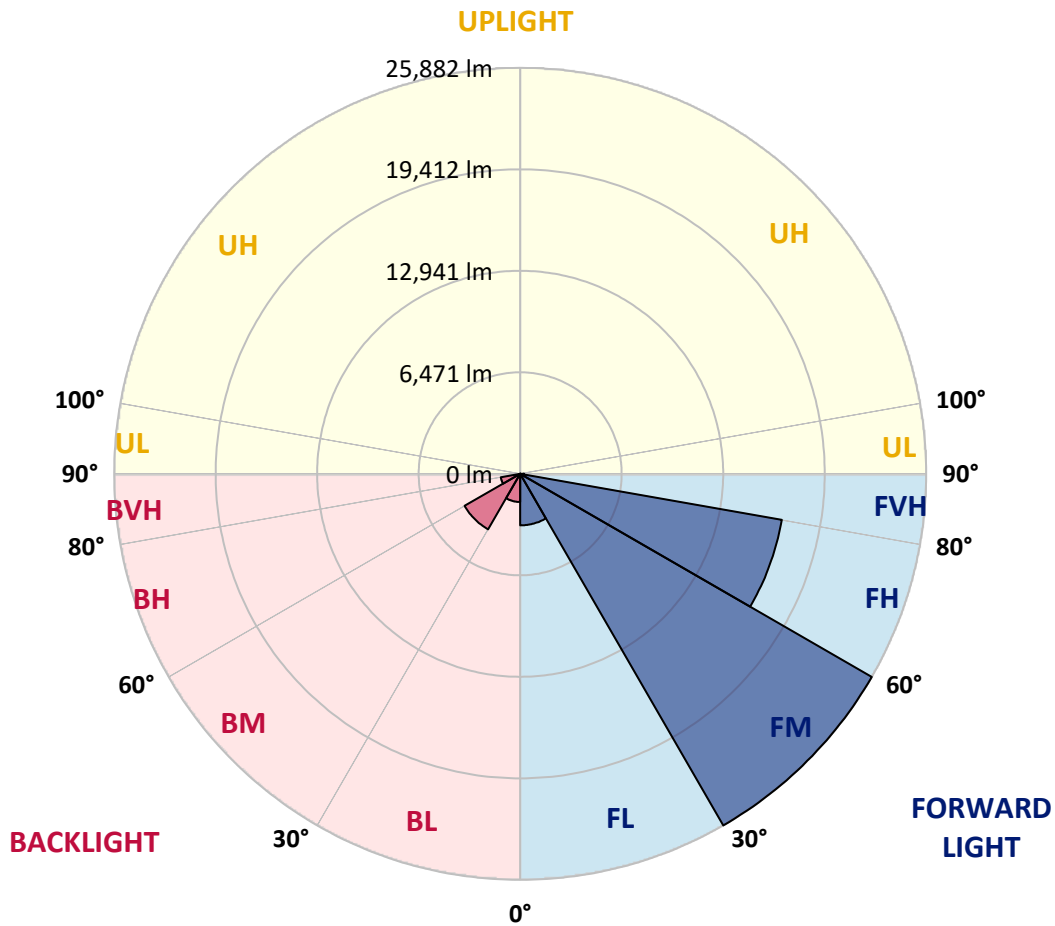
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3285.4	6.1			
FM (30°-60°)	25882.3	48.4			
FH (60°-80°)	16936.2	31.7			G5
FVH (80°-90°)	239.8	0.4			G3/500
BL (0°-30°)	1796.2	3.4	B3/2500		
BM (30°-60°)	4090.1	7.6	B3/5000		
BH (60°-80°)	1255.7	2.3	B3/2500		G3/2500
BVH (80°-90°)	12.3	0.0			G1/100
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	6222.4	6222.4	6222.4	6222.4	6222.4	6222.4	6222.4	6222.4	6222.4	6222.4
2.5°	6200.9	6243.9	6233.1	6222.4	6218.8	6226.0	6229.5	6226.0	6226.0	6226.0
5°	6082.5	6118.4	6118.4	6143.5	6179.3	6222.4	6254.7	6261.8	6269.0	6279.8
7.5°	5856.6	5885.3	5906.8	5989.3	6078.9	6193.7	6290.5	6340.7	6347.9	6387.3
10°	5702.3	5738.2	5774.1	5860.1	5989.3	6161.4	6326.4	6448.3	6466.2	6559.5
12.5°	5695.2	5731.0	5777.7	5870.9	6021.5	6204.4	6405.3	6581.0	6613.3	6749.6
15°	5770.5	5813.5	5856.6	5971.3	6132.7	6355.1	6570.3	6789.0	6821.3	7015.0
17.5°	5924.7	5982.1	6014.4	6129.1	6301.3	6548.7	6832.1	7083.1	7111.8	7337.7
20°	6229.5	6297.7	6308.4	6401.7	6570.3	6835.6	7172.8	7484.8	7520.6	7778.9
22.5°	6860.7	6957.6	6871.5	6918.1	7068.8	7334.2	7700.0	8094.5	8144.7	8438.8
25°	7972.5	8108.8	7886.5	7807.6	7872.1	8148.3	8607.3	9105.8	9163.2	9399.9
27.5°	10156.6	9980.9	9643.8	9313.8	9120.2	9278.0	9794.4	10411.3	10483.0	10712.5
30°	12555.9	12401.7	11946.2	11214.6	10755.6	10730.5	11207.4	11896.0	11978.5	12197.3
32.5°	14958.8	14811.8	14316.8	13416.7	12620.5	12226.0	12555.9	13319.8	13362.9	13502.7
35°	17322.2	17171.6	16676.7	15755.0	14775.9	13879.3	13814.7	14675.5	14689.8	14836.9
37.5°	19700.0	19574.5	19047.3	18143.5	17178.8	15941.5	15342.5	15959.4	15977.3	16120.8
40°	21396.4	21450.2	21087.9	20388.6	19560.1	18208.1	17056.8	17325.8	17218.2	17458.5
42.5°	22852.4	22960.0	22644.4	22293.0	21812.4	20621.7	19180.0	19133.3	18961.2	19090.3
45°	24111.2	24200.9	23917.6	23835.1	23824.3	22988.7	21500.4	21220.6	20980.3	20955.2
47.5°	24573.9	24746.0	24868.0	25144.1	25682.1	25330.6	23899.7	23465.7	23196.7	22999.5
50°	24749.6	24932.5	25348.5	26151.9	27425.1	27575.7	26288.2	25800.4	25470.5	25111.8
52.5°	24512.9	24839.3	25398.8	26750.8	28597.8	29376.1	28579.9	28153.1	27776.5	27191.9
55°	23117.8	23444.2	24588.2	26743.7	29182.4	30638.5	30746.1	30556.0	30132.8	29211.1
57.5°	20177.0	20661.1	22472.3	25832.7	29171.6	31725.1	32869.2	33005.5	32532.1	31212.3
60°	16102.9	16759.2	18968.4	23813.6	28271.4	32313.3	34730.5	35411.9	34909.8	33184.8
62.5°	11236.1	11996.4	14087.3	20650.4	26212.9	31890.1	36089.8	37348.6	36968.4	34949.3
65°	6853.6	7097.5	8783.0	16249.9	22712.6	30118.4	36509.4	38395.8	38270.3	36028.8
67.5°	4565.5	4769.9	5254.0	11142.9	17630.7	26578.7	35505.2	38212.9	38248.8	35853.1
70°	2750.8	2926.5	3242.1	6480.6	11426.2	21037.7	32395.8	35881.8	36089.8	33504.0
72.5°	1133.3	1251.6	1538.6	2937.2	5917.5	13352.1	25796.8	30807.0	31291.2	28171.0
75°	642.0	702.9	903.8	1474.0	2567.8	6222.4	15625.9	21869.8	22583.4	19416.7
77.5°	426.8	455.5	584.6	954.0	1445.3	2123.1	6677.8	11393.9	12756.8	10604.9
80°	286.9	312.0	401.7	638.4	939.6	910.9	2126.7	4221.2	5193.1	3643.8
82.5°	193.7	197.3	286.9	419.6	595.3	441.1	627.6	1312.6	1649.7	1054.4
85°	111.2	107.6	211.6	243.9	265.4	182.9	190.1	394.5	516.4	444.7
87.5°	14.3	21.5	82.5	64.6	35.9	39.5	39.5	68.1	100.4	107.6
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°
6222.4	0°	6222.4	6222.4	6222.4	6222.4	6222.4	6222.4	6222.4	6222.4	6222.4	6222.4
6229.5	2.5°	6229.5	6226.0	6215.2	6204.4	6179.3	6165.0	6172.2	6165.0	6161.4	6165.0
6276.2	5°	6276.2	6265.4	6236.7	6200.9	6150.6	6089.7	6050.2	5992.8	5939.0	5906.8
6401.7	7.5°	6401.7	6390.9	6351.5	6251.1	6089.7	5835.0	5601.9	5397.5	5243.3	5153.6
6602.5	10°	6602.5	6584.6	6523.6	6301.3	5878.1	5322.2	4859.5	4475.8	4224.8	4106.4
6839.2	12.5°	6839.2	6817.7	6710.1	6254.7	5476.4	4608.5	3970.1	3543.3	3310.2	3206.2
7111.8	15°	7119.0	7090.3	6878.7	6032.3	4891.8	3819.5	3234.9	2915.7	2765.1	2671.9
7459.7	17.5°	7466.8	7416.6	7004.2	5698.8	4257.0	3217.0	2783.0	2542.7	2410.0	2320.4
7915.1	20°	7918.7	7836.2	7104.6	5300.7	3672.5	2836.8	2478.2	2277.4	2176.9	2098.0
8560.7	22.5°	8549.9	8431.6	7226.6	4870.3	3260.0	2575.0	2252.2	2105.2	2022.7	1933.1
9460.9	25°	9331.8	9191.9	7377.2	4472.2	2976.7	2349.1	2087.3	1965.3	1868.5	1764.5
10640.8	27.5°	10425.6	10174.6	7556.5	4145.9	2732.8	2155.4	1936.6	1800.4	1689.2	1603.1
11978.5	30°	11645.0	11232.5	7714.3	3948.6	2510.5	1976.1	1739.4	1603.1	1499.1	1438.1
13180.0	32.5°	12799.8	12240.3	7818.3	3862.5	2309.6	1771.7	1524.2	1377.2	1298.3	1280.3
14356.3	35°	13890.1	13151.3	7807.6	3780.0	2130.3	1567.2	1312.6	1162.0	1101.0	1111.8
15622.3	37.5°	15145.3	14123.2	7732.2	3650.9	1983.3	1380.8	1129.7	997.0	943.2	946.8
17160.8	40°	16604.9	15245.7	7685.6	3407.1	1821.9	1208.6	979.1	871.5	832.0	817.7
18781.9	42.5°	18161.4	16332.4	7692.8	3130.9	1621.0	1054.4	875.1	785.4	749.6	738.8
20585.8	45°	19725.1	17368.8	7703.5	2844.0	1409.4	936.0	799.8	724.4	702.9	688.6
22414.9	47.5°	21195.5	18251.1	7502.7	2535.6	1201.4	846.4	738.8	688.6	670.7	652.7
24251.1	50°	22565.5	18839.3	7018.5	2176.9	1036.5	774.7	692.2	656.3	638.4	620.4
25915.2	52.5°	23630.7	18932.5	6218.8	1807.5	921.7	720.9	663.5	631.2	609.7	591.8
27260.1	55°	24104.1	18347.9	5081.9	1463.2	832.0	674.2	634.8	602.5	577.4	559.5
28318.1	57.5°	23982.1	17117.8	3963.0	1176.3	746.0	627.6	598.9	577.4	548.7	520.0
29175.2	60°	23383.2	15471.7	2987.5	979.1	667.1	577.4	559.5	541.5	502.1	459.1
29505.2	62.5°	22346.7	13402.3	2130.3	810.5	581.0	520.0	512.9	498.5	441.1	362.2
29017.4	65°	20761.6	10888.3	1434.6	674.2	498.5	455.5	459.1	434.0	358.6	269.0
27231.4	67.5°	18444.8	7961.8	918.1	552.3	416.0	380.2	383.7	369.4	304.8	229.5
23845.9	70°	15493.2	5272.0	598.9	419.6	333.5	294.1	315.6	319.2	258.2	186.5
18301.3	72.5°	11358.1	3113.0	419.6	312.0	243.9	204.4	258.2	265.4	208.0	139.9
11010.2	75°	6473.4	1477.6	315.6	225.9	150.6	143.5	200.8	200.8	143.5	93.2
4766.3	77.5°	2718.5	616.9	222.4	147.0	86.1	82.5	136.3	125.5	71.7	43.0
1162.0	80°	785.4	276.2	118.4	71.7	35.9	32.3	53.8	39.5	17.9	7.2
441.1	82.5°	308.4	121.9	46.6	28.7	14.3	14.3	7.2	0.0	0.0	0.0
251.0	85°	182.9	50.2	21.5	10.8	3.6	0.0	0.0	0.0	0.0	0.0
53.8	87.5°	46.6	10.8	7.2	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>
6222.4
6179.3
5913.9
5157.2
4095.6
3195.5
2675.4
2313.2
2083.7
1918.7
1753.7
1585.2
1427.4
1291.1
1111.8
961.2
814.1
735.2
688.6
652.7
620.4
588.2
555.9
516.4
451.9
355.1
261.8
218.8
179.3
132.7
86.1
43.0
7.2
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