

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: P951504

Luminaire Tested: **GALN-SB5C-850-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951504
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-SB5C-850-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 615mA 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: 30126 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

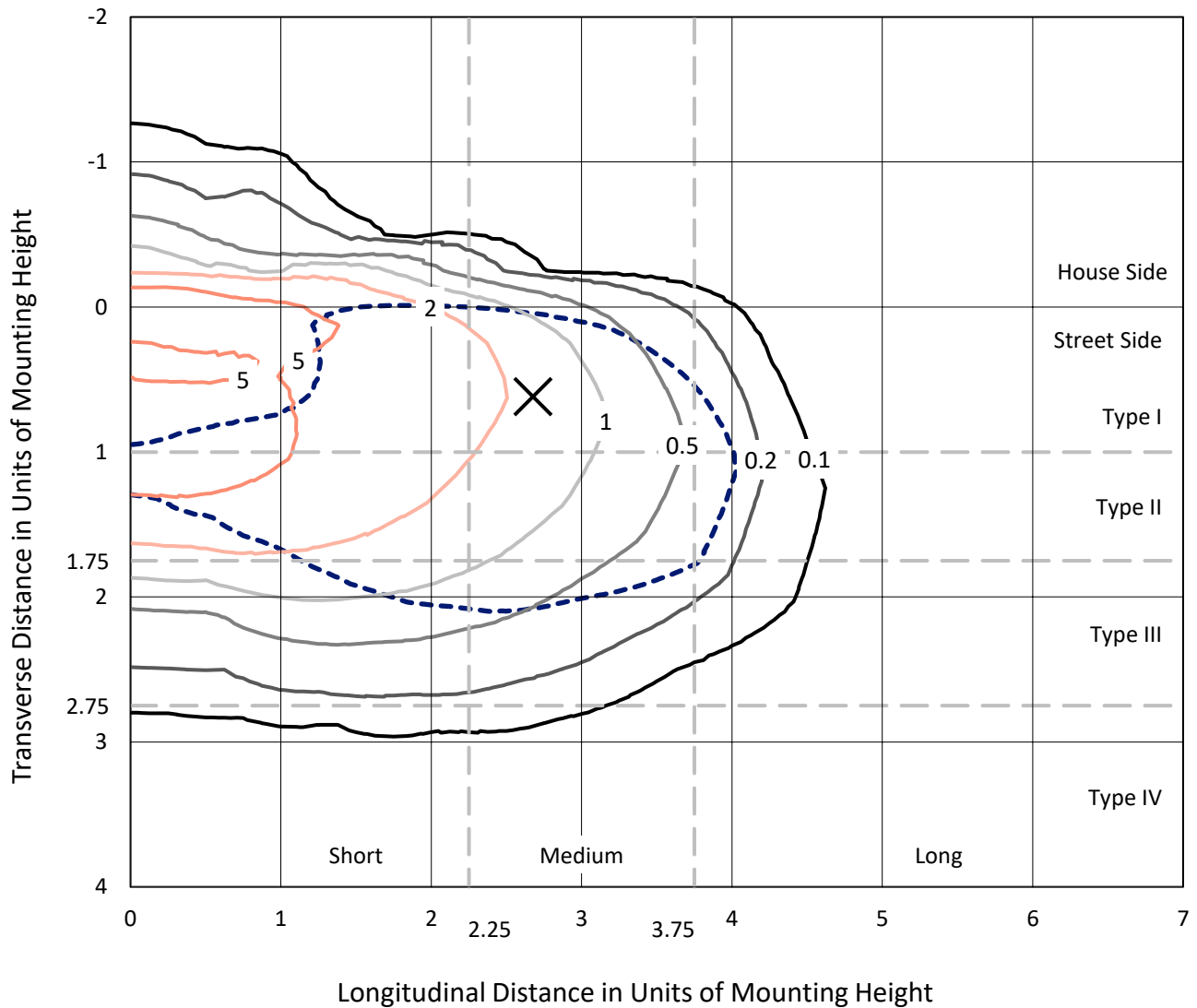
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

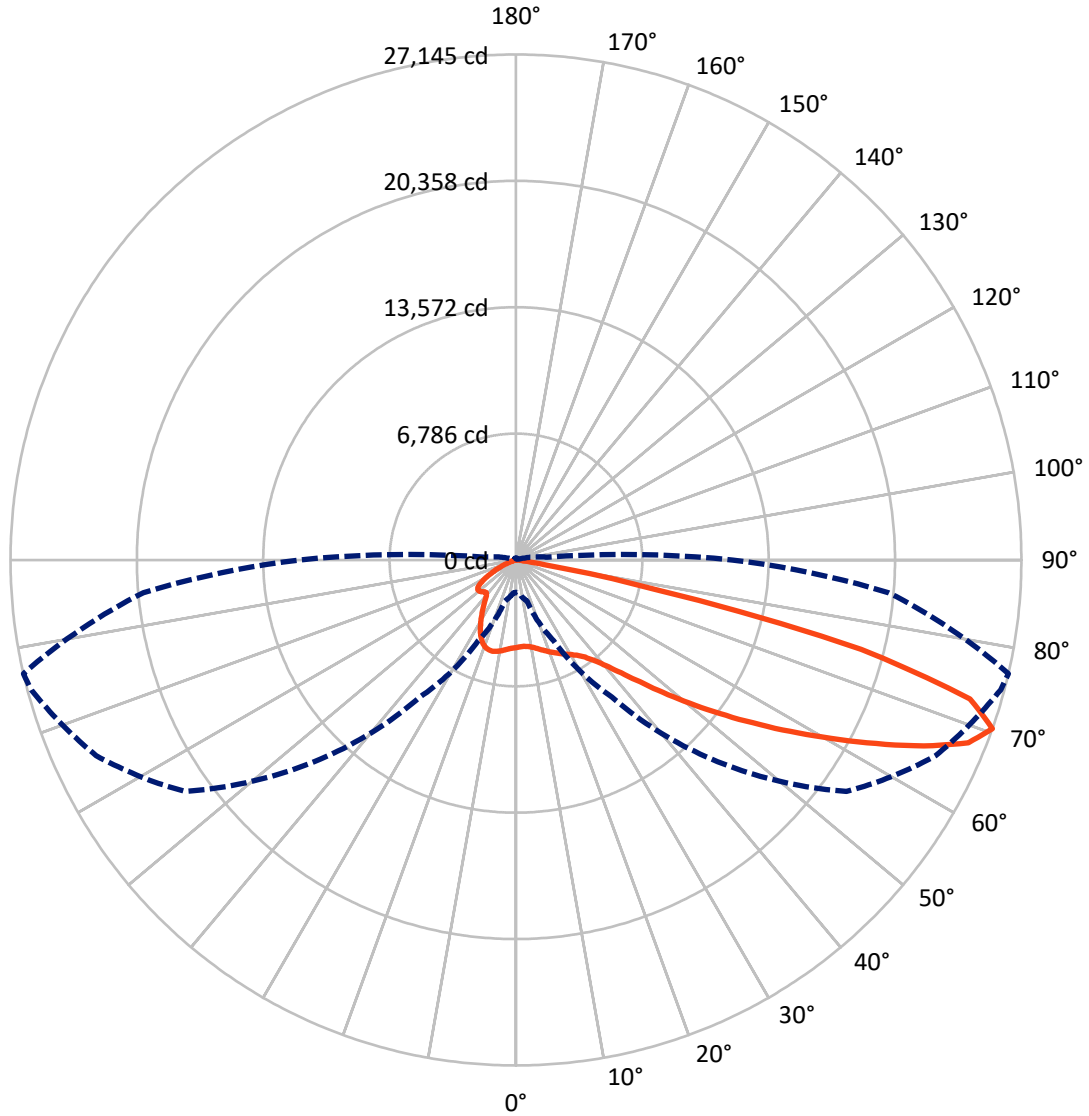
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	3175.7	0.0	3175.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	26950.3	0.0	26950.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	30126.0	0.0	30126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.0	1.3
10°-20°	961.4	3.2
20°-30°	1487.0	4.9
30°-40°	2698.3	9.0
40°-50°	5093.3	16.9
50°-60°	7359.4	24.4
60°-70°	7833.9	26.0
70°-80°	4151.4	13.8
80°-90°	136.3	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°	30126.0	100.0
0°-180°	30126.0	100.0

Coefficient of Utilization



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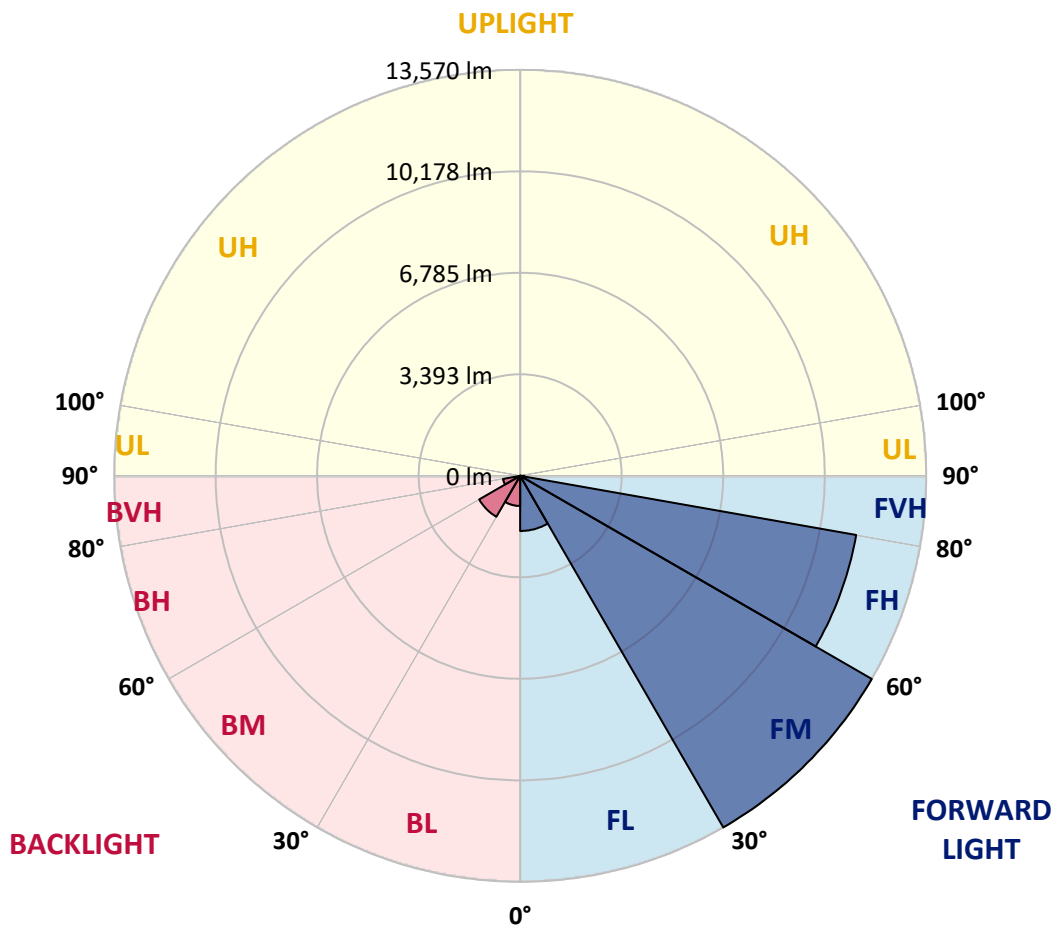
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1844.4	6.1			
FM (30°-60°)	13570.1	45.0			
FH (60°-80°)	11403.1	37.9			G4/12000
FVH (80°-90°)	132.6	0.4			G2/225
BL (0°-30°)	1009.0	3.3	B3/2500		
BM (30°-60°)	1580.9	5.2	B2/2500		
BH (60°-80°)	582.2	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.7	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1
2.5°	4411.8	4451.8	4446.1	4472.7	4482.2	4520.3	4558.3	4609.7	4666.8	4664.9
5°	4162.6	4202.6	4212.1	4248.2	4293.9	4352.9	4430.9	4533.6	4640.1	4657.3
7.5°	3867.7	3909.6	3934.3	4006.6	4090.3	4212.1	4339.5	4489.8	4666.8	4691.5
10°	3572.8	3610.9	3643.2	3746.0	3879.1	4059.9	4267.3	4484.1	4721.9	4758.1
12.5°	3390.2	3426.4	3462.5	3551.9	3717.4	3938.1	4219.7	4510.8	4813.3	4864.6
15°	3325.5	3357.9	3386.4	3466.3	3620.4	3871.5	4210.2	4565.9	4929.3	4997.8
17.5°	3335.0	3352.2	3371.2	3432.1	3582.4	3841.1	4227.3	4661.1	5066.3	5127.2
20°	3390.2	3399.7	3401.6	3443.5	3576.7	3837.3	4261.5	4752.4	5195.7	5277.5
22.5°	3460.6	3464.4	3460.6	3489.1	3612.8	3865.8	4307.2	4862.7	5340.2	5416.3
25°	3789.7	3717.4	3626.1	3570.9	3673.7	3921.0	4375.7	5011.1	5498.2	5572.3
27.5°	4811.4	4604.0	4276.8	3909.6	3799.2	4000.9	4470.8	5161.4	5658.0	5724.5
30°	6470.3	6198.3	5642.7	4815.2	4202.6	4168.3	4594.5	5311.7	5827.3	5899.6
32.5°	8133.1	8066.5	7425.4	6280.1	5110.0	4541.2	4799.9	5515.3	6051.8	6108.8
35°	9814.9	9679.8	9154.7	8022.7	6508.4	5300.3	5142.4	5781.6	6346.7	6411.3
37.5°	11102.8	11021.0	10695.7	9763.5	8167.3	6472.2	5728.4	6194.5	6774.7	6847.0
40°	12240.5	12202.5	12092.1	11477.6	10022.2	8005.6	6639.6	6833.7	7368.3	7453.9
42.5°	13134.7	13224.1	13286.9	13115.7	11934.2	9755.9	7864.8	7731.7	8195.9	8283.4
45°	14049.8	14080.2	14333.2	14580.6	13832.9	11586.1	9246.0	8783.7	9225.1	9333.5
47.5°	14637.6	14759.4	15204.6	15640.2	15429.1	13401.0	10730.0	10026.0	10418.0	10621.5
50°	14681.4	14911.6	15524.2	16283.3	16591.5	15128.5	12343.3	11441.5	11858.1	12082.6
52.5°	13952.7	14310.4	15259.7	16370.8	17219.3	16591.5	14011.7	12856.9	13391.5	13684.5
55°	10697.6	11165.6	14264.8	15895.2	17244.0	17700.6	15636.4	14331.3	15099.9	15431.0
57.5°	9320.2	9556.1	11215.1	15069.5	16785.5	18147.7	17105.1	15735.4	16958.7	17369.6
60°	7754.5	8064.6	9405.8	13718.7	16163.4	18191.5	18402.6	17546.5	18973.4	19435.7
62.5°	5269.9	5606.6	6940.2	11397.7	15313.0	18170.5	19466.1	19410.9	21212.6	21709.1
65°	3264.6	3475.8	4354.8	9306.9	14124.0	18193.4	20579.1	21674.9	23575.5	24079.6
67.5°	2579.8	2676.8	3135.3	7145.7	12075.0	17679.7	21690.1	23803.8	25799.5	26199.0
70°	1733.2	1792.1	2281.1	4790.4	8983.5	15309.2	21669.2	24873.0	26944.7	27144.5
72.5°	913.2	958.8	1333.6	2218.3	5425.9	10882.2	18265.7	23594.5	25805.2	25504.6
75°	456.6	532.7	898.0	1126.3	2317.2	6068.9	11342.6	18602.4	20310.8	19146.5
77.5°	346.3	418.5	742.0	742.0	806.6	2043.3	4803.7	10145.9	9358.3	7792.5
80°	220.7	285.4	648.7	561.2	336.7	519.4	1251.8	2842.3	1988.1	1512.5
82.5°	129.4	186.4	540.3	371.0	188.3	192.1	353.9	605.0	515.6	401.4
85°	51.4	121.8	371.0	146.5	74.2	47.6	106.5	129.4	106.5	79.9
87.5°	0.0	28.5	64.7	0.0	5.7	3.8	7.6	9.5	9.5	7.6
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°
4699.1	0°	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1	4699.1
4702.9	2.5°	4720.0	4723.8	4735.3	4737.2	4710.5	4676.3	4663.0	4657.3	4634.4	4632.5
4733.4	5°	4777.1	4794.2	4777.1	4727.6	4609.7	4444.2	4318.6	4215.9	4122.7	4094.1
4838.0	7.5°	4891.3	4908.4	4857.0	4663.0	4366.2	4037.1	3740.3	3531.0	3342.6	3272.3
4965.5	10°	5054.9	5077.7	4916.0	4524.1	3999.0	3470.1	2967.9	2614.0	2338.1	2225.9
5138.6	12.5°	5260.3	5269.9	4948.3	4312.9	3521.5	2766.2	2054.7	1676.1	1430.7	1339.3
5347.9	15°	5486.7	5473.4	4952.1	4025.6	2870.8	1955.7	1341.2	1101.5	1002.6	972.2
5557.1	17.5°	5724.5	5669.4	4876.0	3610.9	2157.4	1337.4	995.0	937.9	920.8	913.2
5764.5	20°	5958.6	5834.9	4737.2	3068.7	1548.6	998.8	903.7	886.6	877.0	873.2
5973.8	22.5°	6171.6	5960.5	4499.4	2439.0	1124.4	882.7	854.2	839.0	821.9	814.3
6177.3	25°	6379.0	6032.7	4164.5	1851.1	899.9	825.7	802.8	774.3	751.5	742.0
6396.1	27.5°	6580.7	6078.4	3746.0	1369.8	802.8	772.4	730.6	690.6	673.5	669.7
6630.1	30°	6795.6	6093.6	3270.4	1021.6	743.9	705.8	644.9	599.3	589.8	591.7
6945.9	32.5°	7058.2	6116.5	2790.9	837.1	694.4	625.9	553.6	506.1	498.4	506.1
7406.3	35°	7372.1	6162.1	2328.6	770.5	650.6	544.1	466.1	426.2	418.5	424.3
7996.1	37.5°	7798.2	6236.3	1896.8	757.2	614.5	475.6	391.9	359.6	359.6	361.5
8719.0	40°	8365.2	6434.2	1510.6	747.7	595.5	424.3	331.0	317.7	323.4	327.2
9639.8	42.5°	9055.8	6854.6	1249.9	736.3	574.5	401.4	300.6	294.9	304.4	308.2
10743.3	45°	9830.1	7387.3	1158.6	717.2	555.5	416.6	287.3	279.7	291.1	293.0
11979.9	47.5°	10631.0	7908.6	1147.2	696.3	536.5	439.5	283.5	266.3	279.7	281.6
13300.2	50°	11441.5	8249.1	1158.6	664.0	506.1	439.5	285.4	253.0	264.4	270.2
14670.0	52.5°	12257.6	8405.1	1151.0	593.6	452.8	412.8	285.4	241.6	253.0	256.8
16150.1	55°	13049.1	8374.7	1034.9	488.9	384.3	365.3	277.8	232.1	239.7	241.6
17548.4	57.5°	13675.0	7950.4	820.0	380.5	312.0	304.4	253.0	220.7	226.4	224.5
18830.7	60°	14002.2	7018.2	586.0	293.0	245.4	239.7	222.6	205.5	209.3	199.8
19917.0	62.5°	14006.0	5785.4	391.9	232.1	196.0	190.2	190.2	184.5	180.7	161.7
20757.9	65°	13707.3	4417.5	260.6	184.5	157.9	148.4	159.8	157.9	144.6	118.0
21014.7	67.5°	13030.0	2895.6	197.9	144.6	121.8	116.1	127.5	133.2	123.7	98.9
20078.7	70°	11637.4	1685.6	163.6	112.2	91.3	85.6	102.7	114.1	102.7	79.9
17162.2	72.5°	9666.5	909.4	133.2	83.7	62.8	57.1	81.8	93.2	81.8	59.0
11011.5	75°	6272.5	487.0	102.7	55.2	32.3	36.1	60.9	68.5	57.1	38.0
3232.3	77.5°	2106.0	215.0	64.7	26.6	15.2	15.2	36.1	41.9	26.6	13.3
587.9	80°	469.9	89.4	26.6	11.4	5.7	5.7	7.6	7.6	3.8	0.0
180.7	82.5°	154.1	36.1	11.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0
45.7	85°	59.0	13.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.2	87.5°	22.8	1.9	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

<u>180°</u>
4699.1
4636.3
4077.0
3243.7
2178.3
1310.8
972.2
911.3
869.4
812.4
738.2
665.9
591.7
504.2
422.3
359.6
327.2
308.2
294.9
283.5
272.1
256.8
241.6
224.5
197.9
156.0
114.1
97.0
76.1
57.1
34.2
11.4
0.0
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0.0

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