

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: P944224

Luminaire Tested: **GALN-SB9A-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944224
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-SB9A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 350mA 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: 25944 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

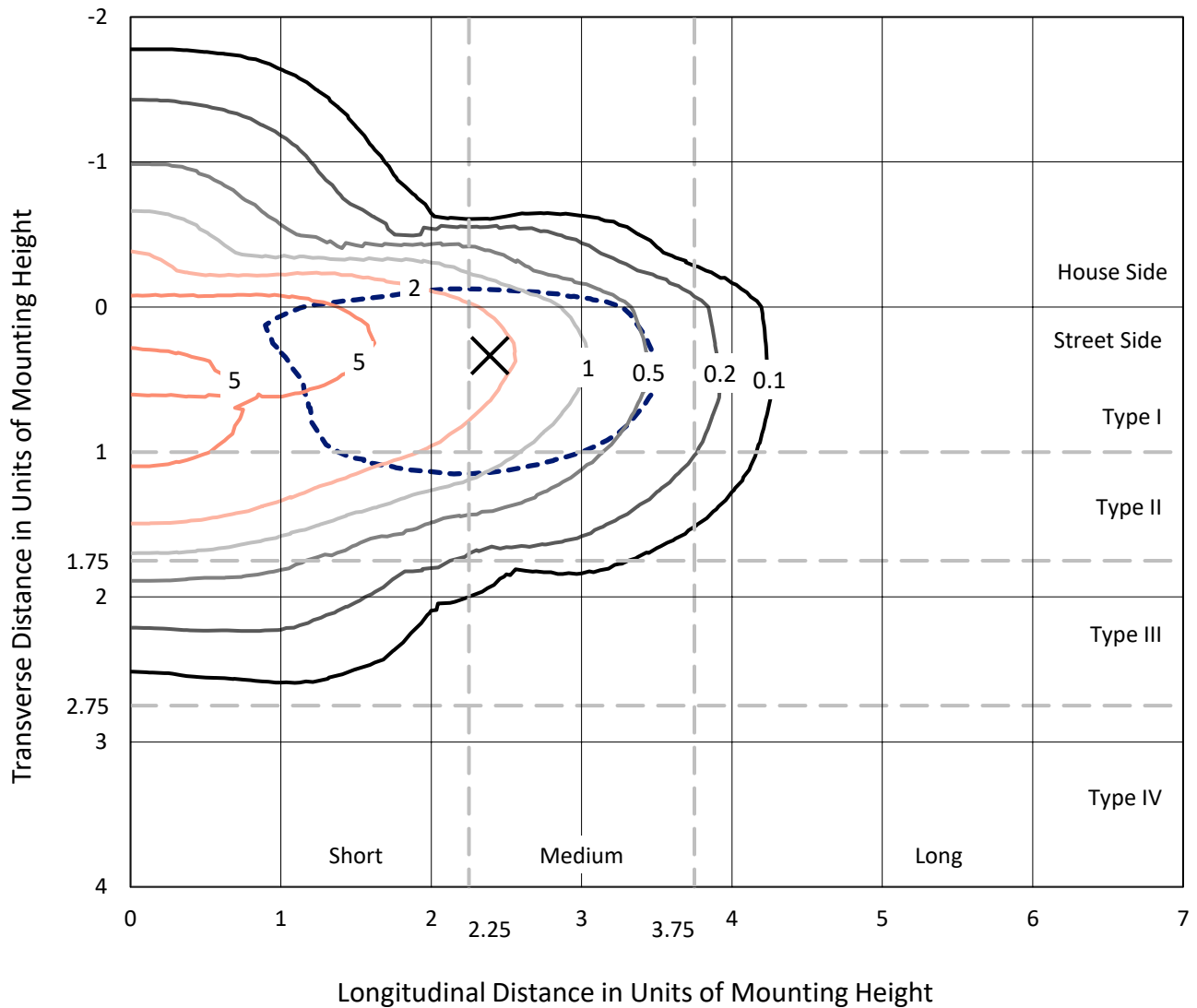
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

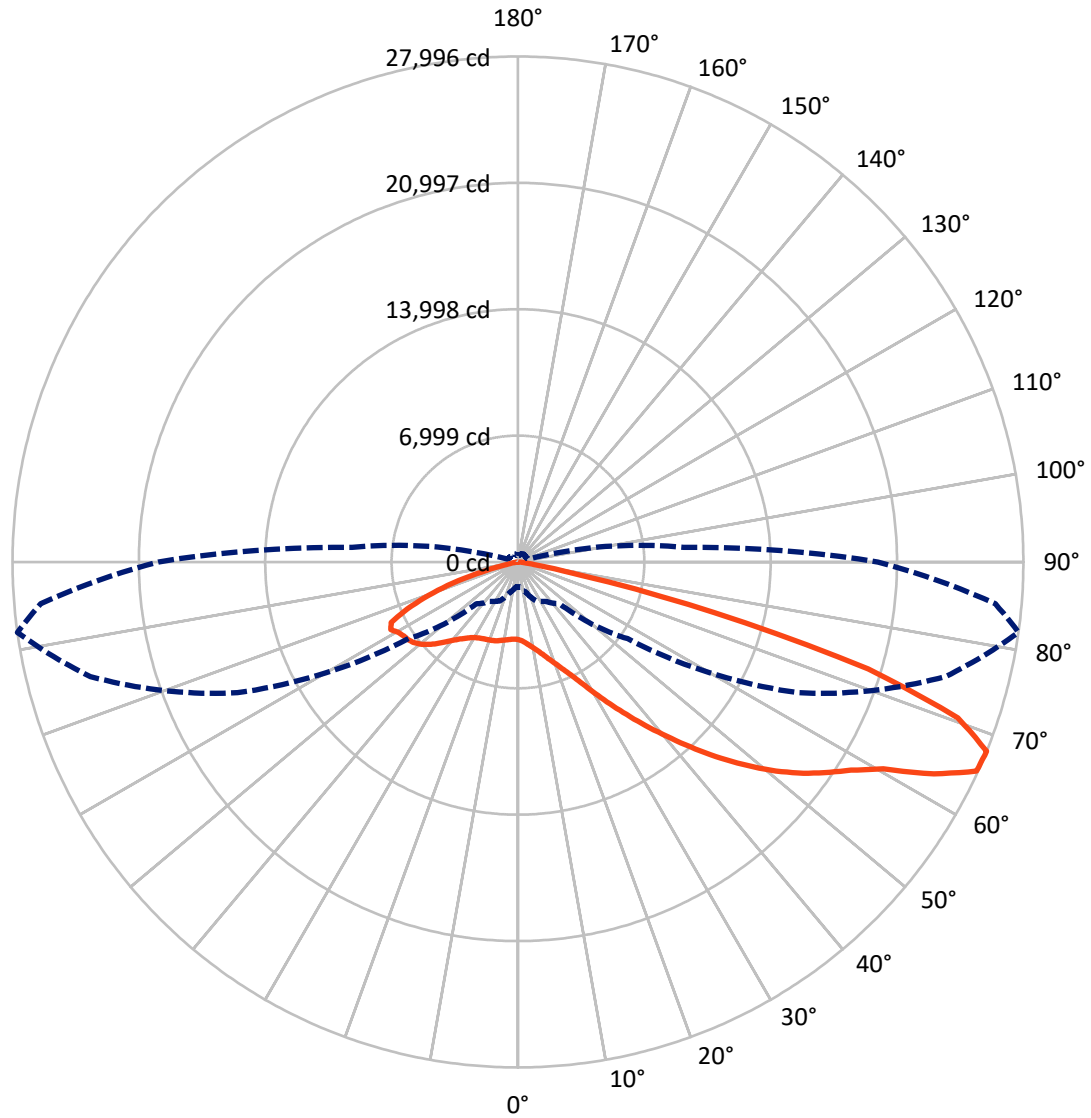
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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
House Side	Lumens	4699.5	0.0	4699.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21244.5	0.0	21244.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	25944.0	0.0	25944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.9	1.5
10°-20°	995.1	3.8
20°-30°	1593.8	6.1
30°-40°	2818.3	10.9
40°-50°	4937.9	19.0
50°-60°	6585.8	25.4
60°-70°	6131.0	23.6
70°-80°	2353.1	9.1
80°-90°	146.2	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°	25944.0	100.0
0°-180°	25944.0	100.0

Coefficient of Utilization



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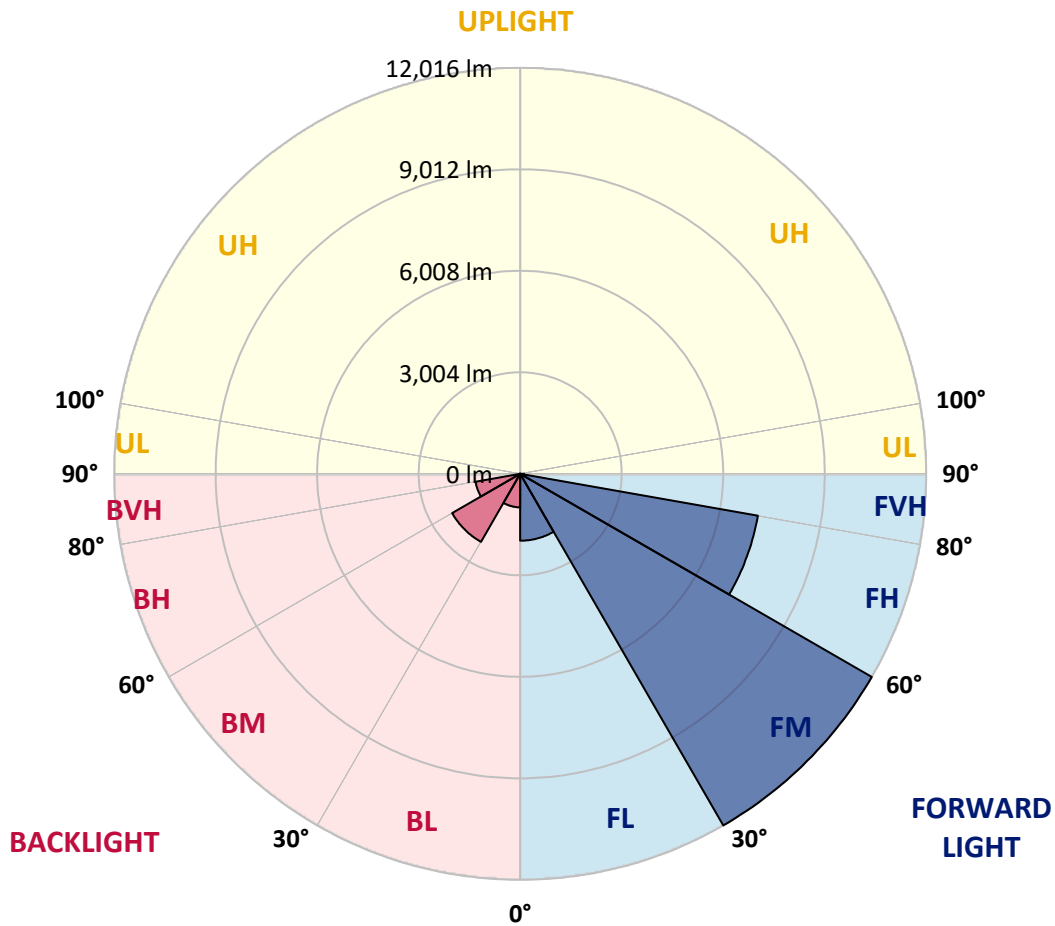
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1979.2	7.6			
FM (30°-60°)	12016.2	46.3			
FH (60°-80°)	7142.8	27.5			G3/7500
FVH (80°-90°)	106.3	0.4			G2/225
BL (0°-30°)	992.5	3.8	B2/1000		
BM (30°-60°)	2325.8	9.0	B2/2500		
BH (60°-80°)	1341.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	39.9	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0
2.5°	4542.7	4568.9	4553.9	4546.5	4533.4	4514.7	4499.8	4453.1	4404.5	4372.8
5°	4634.3	4660.4	4658.5	4666.0	4675.4	4681.0	4677.2	4624.9	4555.8	4501.6
7.5°	4555.8	4585.7	4610.0	4647.3	4712.7	4781.8	4815.5	4804.2	4733.3	4658.5
10°	4333.5	4365.3	4423.2	4511.0	4649.2	4798.6	4923.8	4981.7	4936.9	4854.7
12.5°	3926.3	3958.1	4072.0	4262.6	4494.2	4753.8	4992.9	5147.9	5159.1	5077.0
15°	3468.7	3500.4	3621.9	3861.0	4214.0	4630.5	5030.3	5323.5	5422.5	5351.5
17.5°	3184.8	3212.8	3304.3	3496.7	3864.7	4384.0	5017.2	5510.3	5736.3	5680.3
20°	3098.8	3123.1	3166.1	3300.6	3606.9	4128.1	4931.3	5685.9	6074.4	6042.7
22.5°	3190.4	3212.8	3225.9	3285.6	3478.0	3960.0	4822.9	5865.2	6466.7	6470.4
25°	3401.4	3423.9	3408.9	3446.3	3530.3	3907.7	4781.8	6076.3	6959.8	7000.9
27.5°	3748.9	3750.7	3715.3	3713.4	3726.5	3986.1	4824.8	6302.3	7581.8	7658.4
30°	4445.6	4417.6	4281.2	4133.7	4066.4	4221.5	4944.3	6569.4	8315.9	8452.3
32.5°	5519.7	5478.6	5228.3	4875.2	4520.3	4600.6	5159.1	6873.9	9115.4	9361.9
35°	6685.2	6674.0	6412.5	5887.6	5267.5	5140.5	5508.4	7273.6	9987.7	10379.9
37.5°	7768.6	7763.0	7613.6	6995.3	6240.7	5893.2	6068.8	7796.6	10921.6	11489.5
40°	8758.6	8775.4	8626.0	8073.1	7312.8	6858.9	6830.9	8442.9	11960.2	12698.0
42.5°	9614.1	9632.8	9481.5	9072.4	8371.9	7927.4	7766.7	9234.9	12974.4	13996.2
45°	10195.0	10310.8	10288.4	9961.5	9459.1	8997.7	8891.2	10228.6	14130.7	15372.8
47.5°	10359.4	10465.9	10634.0	10678.8	10372.5	9918.6	10045.6	11426.0	15300.0	16751.3
50°	9954.1	10053.0	10402.3	10867.5	11080.4	10940.3	11168.2	12709.2	16497.3	18126.1
52.5°	9154.6	9255.5	9696.3	10432.2	11300.8	11741.6	12294.5	13973.8	17657.3	19428.1
55°	7998.4	8104.8	8670.8	9503.9	10880.5	12072.3	13234.1	15236.5	18720.1	20599.2
57.5°	6425.6	6504.0	7092.4	8258.0	9823.3	11743.5	13927.1	16615.0	19721.3	21749.9
60°	4187.8	4256.9	4940.6	6240.7	8071.2	10645.2	14065.3	18152.3	21051.3	23246.0
62.5°	2785.0	2831.7	3237.1	4191.6	5684.0	8536.3	13256.5	19379.5	23001.3	25849.9
65°	1910.9	1957.6	2362.9	3027.9	3672.3	5646.7	10931.0	19217.0	24768.4	27917.7
67.5°	1363.6	1402.8	1746.5	2374.1	2658.0	3280.0	7410.0	17139.9	24514.3	27996.1
70°	976.9	999.3	1283.2	1849.2	2112.6	1970.6	4120.6	13108.9	21464.1	25851.8
72.5°	683.7	691.1	891.0	1408.4	1701.7	1438.3	1961.3	8739.9	16233.9	20291.0
75°	463.2	472.6	599.6	1032.9	1365.4	1098.3	1038.6	4686.6	9530.0	11231.7
77.5°	283.9	287.7	386.7	706.1	1021.7	836.8	668.7	1985.6	3687.2	3620.0
80°	160.6	160.6	246.6	439.0	696.7	539.8	468.8	844.3	1167.4	1025.5
82.5°	89.7	91.5	179.3	272.7	461.4	319.4	257.8	390.4	504.3	446.4
85°	37.4	41.1	110.2	128.9	220.4	158.8	104.6	164.4	186.8	166.2
87.5°	3.7	5.6	33.6	24.3	26.2	31.8	14.9	31.8	26.2	26.2
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°
4298.0	0°	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0	4298.0
4361.6	2.5°	4326.1	4298.0	4227.1	4144.9	4036.5	3984.2	3913.3	3864.7	3823.6	3827.3
4469.9	5°	4410.1	4339.1	4180.4	3982.4	3735.8	3560.2	3373.4	3244.5	3139.9	3117.5
4619.3	7.5°	4525.9	4413.9	4135.5	3778.8	3362.2	3046.5	2764.5	2583.3	2454.4	2413.3
4800.5	10°	4675.4	4512.9	4077.6	3522.9	2923.3	2521.7	2219.1	2077.1	1989.3	1959.4
5013.4	12.5°	4849.1	4626.8	4001.0	3210.9	2471.2	2084.6	1892.2	1821.2	1793.2	1783.8
5275.0	15°	5067.6	4768.8	3885.2	2841.1	2088.3	1817.5	1735.3	1725.9	1729.7	1725.9
5588.8	17.5°	5327.3	4923.8	3696.6	2460.0	1830.5	1681.1	1651.2	1658.7	1668.0	1666.2
5939.9	20°	5611.2	5077.0	3455.6	2121.9	1655.0	1584.0	1567.2	1574.6	1582.1	1578.4
6345.3	22.5°	5934.3	5241.3	3188.5	1858.6	1537.3	1494.3	1475.6	1477.5	1477.5	1470.0
6858.9	25°	6321.0	5422.5	2908.3	1671.8	1447.6	1414.0	1391.6	1384.1	1372.9	1350.5
7482.8	27.5°	6782.4	5614.9	2639.3	1541.0	1376.6	1344.9	1318.7	1300.1	1272.0	1234.7
8231.8	30°	7301.6	5848.4	2411.5	1458.8	1320.6	1288.9	1259.0	1230.9	1189.9	1143.2
9092.9	32.5°	7912.4	6098.7	2245.2	1404.7	1270.2	1236.6	1201.1	1167.4	1122.6	1075.9
10060.5	35°	8640.9	6401.3	2148.1	1367.3	1230.9	1186.1	1146.9	1109.5	1075.9	1034.8
11112.1	37.5°	9431.0	6722.6	2118.2	1348.6	1204.8	1135.7	1090.9	1064.7	1061.0	1036.7
12249.7	40°	10295.9	7103.6	2140.6	1337.4	1176.8	1087.1	1038.6	1032.9	1042.3	999.3
13465.7	42.5°	11211.1	7555.7	2178.0	1324.3	1137.6	1038.6	991.9	991.9	984.4	924.6
14750.8	45°	12201.1	8076.8	2215.3	1292.6	1090.9	990.0	954.5	941.4	909.7	851.8
16043.4	47.5°	13198.6	8607.3	2243.4	1234.7	1034.8	948.9	917.1	887.3	840.6	788.3
17311.7	50°	14145.6	9083.6	2213.5	1148.8	971.3	909.7	876.0	835.0	784.5	749.0
18512.8	52.5°	14991.8	9496.4	2086.4	1047.9	904.1	868.6	838.7	795.7	754.6	717.3
19596.2	55°	15727.7	9830.8	1862.3	952.6	844.3	833.1	803.2	749.0	693.0	661.2
20670.2	57.5°	16433.8	10084.8	1582.1	874.2	790.1	793.9	749.0	700.5	648.2	614.5
22117.8	60°	17373.4	10424.8	1298.2	801.3	732.2	743.4	694.9	659.4	594.0	551.0
24600.3	62.5°	18875.2	10953.4	1031.1	711.7	665.0	668.7	648.2	605.2	526.7	476.3
26440.2	65°	20066.9	10759.1	812.5	614.5	588.4	594.0	594.0	547.3	463.2	405.3
26539.2	67.5°	19932.4	9212.5	648.2	519.3	515.5	519.3	532.4	493.1	410.9	364.2
24518.1	70°	18361.5	7327.8	519.3	431.5	448.3	439.0	476.3	450.2	369.8	323.1
19007.8	72.5°	14982.4	5278.7	396.0	356.8	343.7	358.6	429.6	405.3	308.2	255.9
10068.0	75°	8754.9	2816.8	295.1	282.1	248.4	298.9	381.1	345.6	235.4	188.7
3085.8	77.5°	2850.4	982.5	216.7	207.3	184.9	241.0	325.0	291.4	192.4	149.4
904.1	80°	764.0	297.0	147.6	136.4	119.5	179.3	257.8	231.6	138.2	97.1
388.5	82.5°	306.3	125.1	85.9	76.6	65.4	123.3	203.6	186.8	102.7	61.6
121.4	85°	99.0	41.1	31.8	24.3	29.9	76.6	121.4	127.0	72.8	31.8
18.7	87.5°	13.1	5.6	5.6	7.5	5.6	13.1	37.4	35.5	20.5	3.7
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>
4298.0
3790.0
3067.1
2372.2
1937.0
1778.2
1724.1
1662.4
1576.5
1466.3
1346.8
1230.9
1139.4
1077.8
1031.1
1034.8
1001.2
924.6
849.9
786.4
743.4
713.5
657.5
610.8
545.4
472.6
399.7
356.8
317.5
250.3
183.1
143.8
95.3
61.6
24.3
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0.0

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