

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: P944304

Luminaire Tested: **GALN-SB9A-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944304
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-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 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: 21620 lumens
Efficiency: N/A
Efficacy: 84.6 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

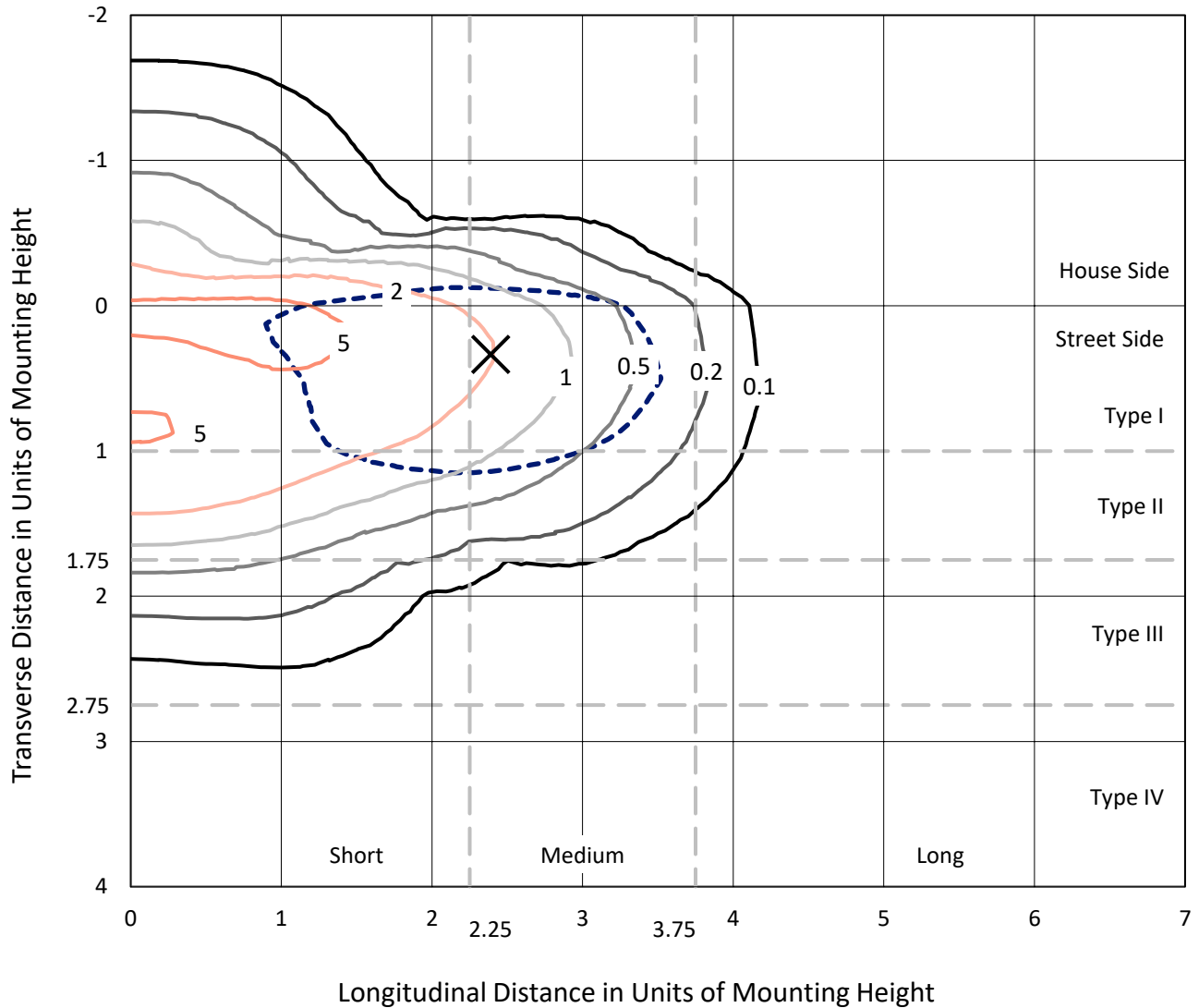
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

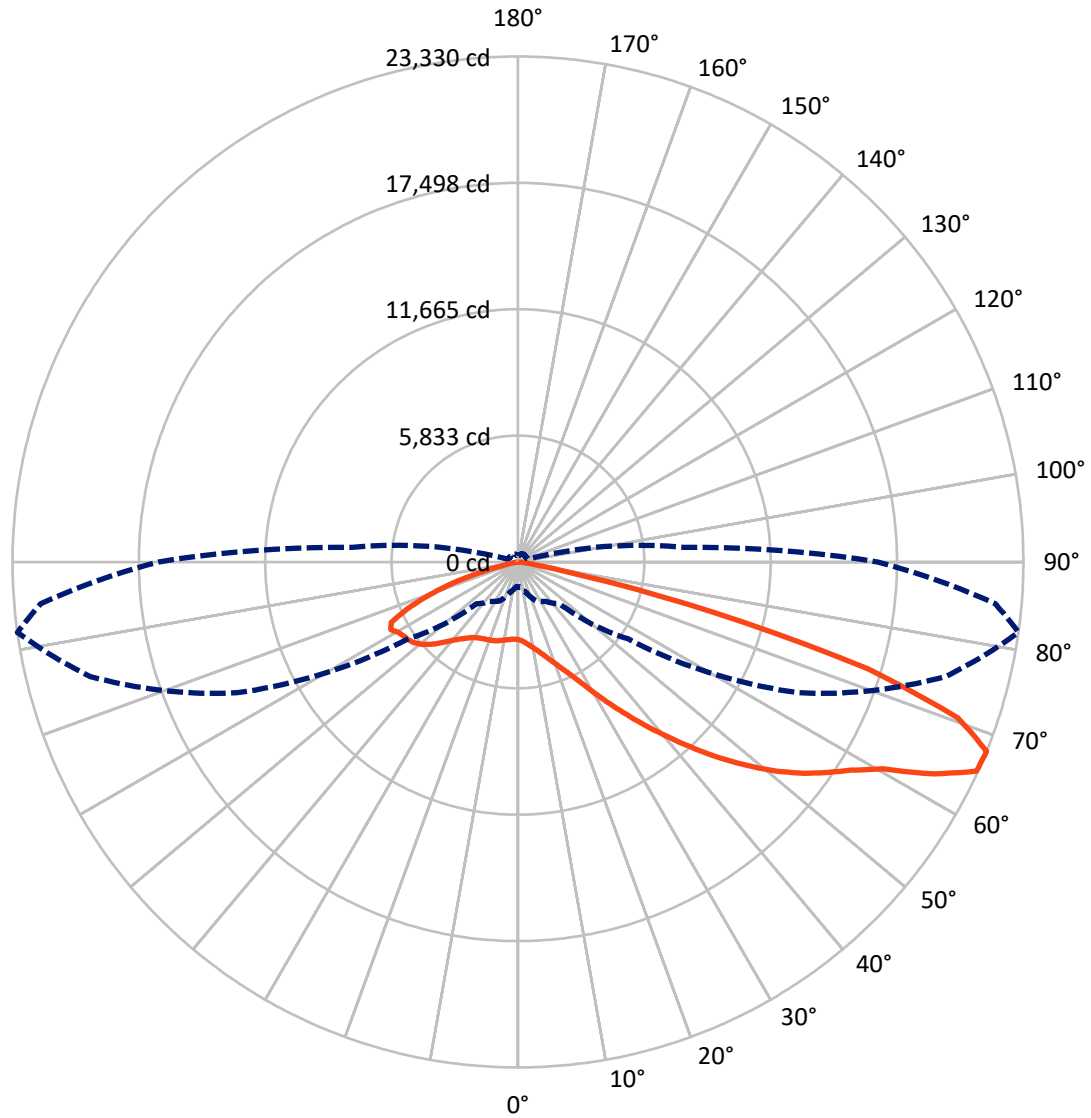
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	3916.3	0.0	3916.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17703.7	0.0	17703.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	21620.0	0.0	21620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.1	1.5
10°-20°	829.2	3.8
20°-30°	1328.1	6.1
30°-40°	2348.6	10.9
40°-50°	4114.9	19.0
50°-60°	5488.2	25.4
60°-70°	5109.2	23.6
70°-80°	1960.9	9.1
80°-90°	121.8	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°	21620.0	100.0
0°-180°	21620.0	100.0

Coefficient of Utilization



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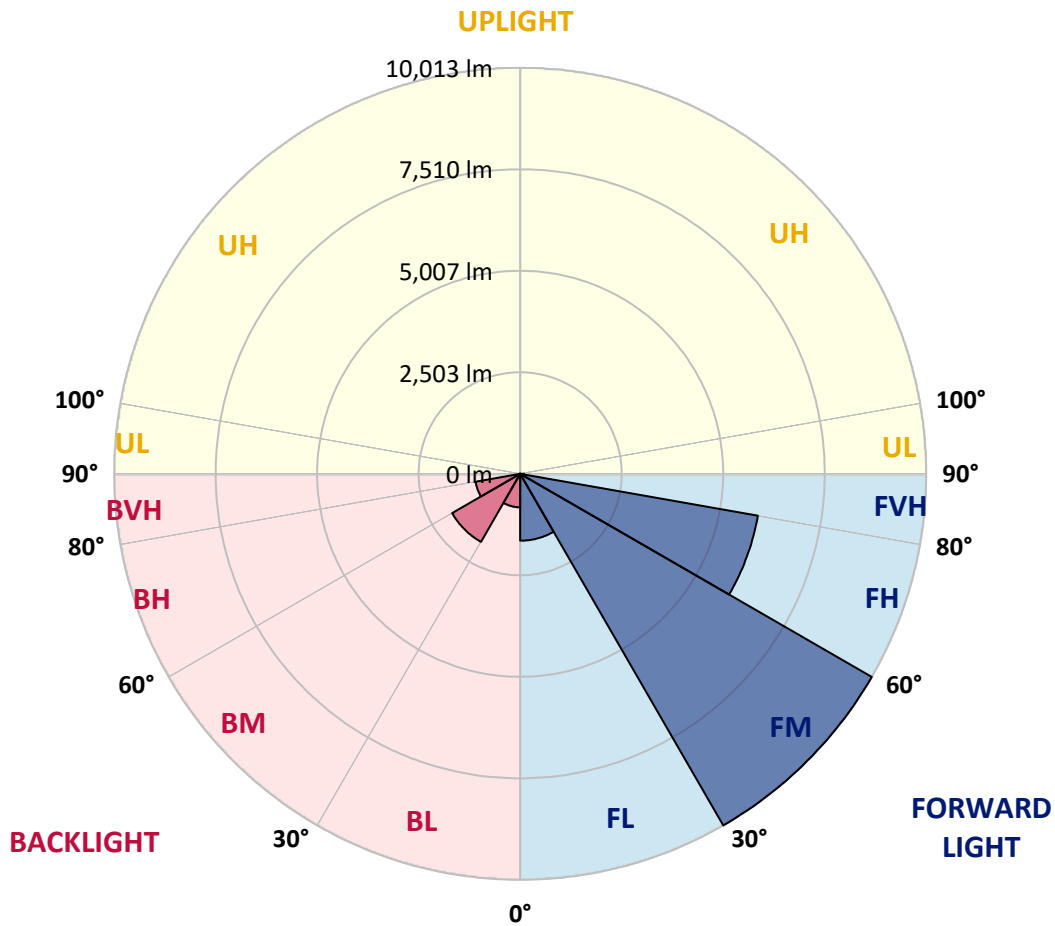
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1649.4	7.6			
FM (30°-60°)	10013.5	46.3			
FH (60°-80°)	5952.3	27.5			G3/7500
FVH (80°-90°)	88.6	0.4			G1/100
BL (0°-30°)	827.1	3.8	B2/1000		
BM (30°-60°)	1938.1	9.0	B2/2500		
BH (60°-80°)	1117.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	33.2	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°	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7
2.5°	3785.6	3807.4	3795.0	3788.7	3777.8	3762.3	3749.8	3710.9	3670.4	3644.0
5°	3861.9	3883.7	3882.1	3888.3	3896.1	3900.8	3897.7	3854.1	3796.5	3751.4
7.5°	3796.5	3821.4	3841.7	3872.8	3927.3	3984.9	4012.9	4003.5	3944.4	3882.1
10°	3611.3	3637.7	3686.0	3759.2	3874.3	3998.9	4103.2	4151.4	4114.1	4045.6
12.5°	3271.9	3298.4	3393.4	3552.1	3745.1	3961.5	4160.8	4289.9	4299.3	4230.8
15°	2890.6	2917.0	3018.2	3217.5	3511.7	3858.8	4191.9	4436.3	4518.8	4459.6
17.5°	2654.0	2677.3	2753.6	2913.9	3220.6	3653.3	4181.0	4591.9	4780.3	4733.6
20°	2582.4	2602.6	2638.4	2750.5	3005.8	3440.1	4109.4	4738.2	5062.0	5035.6
22.5°	2658.6	2677.3	2688.2	2738.0	2898.4	3300.0	4019.1	4887.7	5388.9	5392.0
25°	2834.5	2853.2	2840.8	2871.9	2941.9	3256.4	3984.9	5063.6	5799.8	5834.1
27.5°	3124.1	3125.6	3096.0	3094.5	3105.4	3321.8	4020.7	5251.9	6318.2	6382.0
30°	3704.7	3681.3	3567.7	3444.7	3388.7	3517.9	4120.3	5474.5	6929.9	7043.5
32.5°	4599.7	4565.5	4356.9	4062.7	3766.9	3833.9	4299.3	5728.2	7596.1	7801.6
35°	5571.0	5561.7	5343.8	4906.4	4389.6	4283.7	4590.4	6061.3	8323.1	8649.9
37.5°	6473.8	6469.2	6344.6	5829.4	5200.6	4911.0	5057.3	6497.2	9101.4	9574.6
40°	7298.8	7312.8	7188.3	6727.6	6094.0	5715.8	5692.4	7035.8	9966.8	10581.7
42.5°	8011.7	8027.3	7901.2	7560.3	6976.6	6606.1	6472.3	7695.8	10812.0	11663.5
45°	8495.8	8592.3	8573.7	8301.3	7882.5	7498.1	7409.3	8523.9	11775.6	12810.7
47.5°	8632.8	8721.5	8861.6	8899.0	8643.7	8265.5	8371.3	9521.6	12750.0	13959.5
50°	8295.0	8377.5	8668.6	9056.2	9233.7	9116.9	9306.8	10591.0	13747.8	15105.1
52.5°	7628.8	7712.9	8080.2	8693.5	9417.3	9784.7	10245.4	11644.8	14714.4	16190.0
55°	6665.3	6754.0	7225.7	7919.9	9067.1	10060.2	11028.4	12697.1	15600.1	17166.0
57.5°	5354.7	5420.0	5910.4	6881.7	8186.1	9786.3	11605.9	13845.8	16434.4	18124.9
60°	3489.9	3547.5	4117.2	5200.6	6726.0	8871.0	11721.1	15126.9	17542.7	19371.7
62.5°	2320.9	2359.8	2697.6	3493.0	4736.7	7113.6	11047.1	16149.6	19167.8	21541.6
65°	1592.4	1631.3	1969.1	2523.2	3060.2	4705.6	9109.1	16014.1	20640.3	23264.7
67.5°	1136.3	1169.0	1455.4	1978.4	2215.0	2733.4	6175.0	14283.2	20428.6	23330.1
70°	814.1	832.8	1069.4	1541.0	1760.5	1642.2	3433.8	10924.1	17886.7	21543.1
72.5°	569.7	575.9	742.5	1173.7	1418.0	1198.6	1634.4	7283.3	13528.3	16909.2
75°	386.0	393.8	499.7	860.8	1137.9	915.3	865.5	3905.5	7941.7	9359.7
77.5°	236.6	239.7	322.2	588.4	851.5	697.4	557.3	1654.6	3072.7	3016.7
80°	133.9	133.9	205.5	365.8	580.6	449.9	390.7	703.6	972.9	854.6
82.5°	74.7	76.3	149.4	227.3	384.5	266.2	214.8	325.3	420.3	372.0
85°	31.1	34.2	91.8	107.4	183.7	132.3	87.2	137.0	155.7	138.5
87.5°	3.1	4.7	28.0	20.2	21.8	26.5	12.5	26.5	21.8	21.8
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°
3581.7	0°	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7	3581.7
3634.6	2.5°	3605.1	3581.7	3522.6	3454.1	3363.8	3320.2	3261.0	3220.6	3186.3	3189.4
3724.9	5°	3675.1	3615.9	3483.6	3318.6	3113.2	2966.9	2811.2	2703.8	2616.6	2597.9
3849.4	7.5°	3771.6	3678.2	3446.3	3149.0	2801.9	2538.8	2303.7	2152.8	2045.4	2011.1
4000.4	10°	3896.1	3760.7	3398.0	2935.7	2436.1	2101.4	1849.2	1730.9	1657.8	1632.9
4177.9	12.5°	4040.9	3855.7	3334.2	2675.8	2059.4	1737.1	1576.8	1517.7	1494.3	1486.5
4395.8	15°	4223.0	3974.0	3237.7	2367.6	1740.3	1514.6	1446.1	1438.3	1441.4	1438.3
4657.3	17.5°	4439.4	4103.2	3080.5	2050.0	1525.5	1400.9	1376.0	1382.2	1390.0	1388.5
4949.9	20°	4676.0	4230.8	2879.7	1768.3	1379.1	1320.0	1306.0	1312.2	1318.4	1315.3
5287.7	22.5°	4945.3	4367.8	2657.1	1548.8	1281.1	1245.3	1229.7	1231.3	1231.3	1225.0
5715.8	25°	5267.5	4518.8	2423.6	1393.1	1206.4	1178.3	1159.7	1153.4	1144.1	1125.4
6235.7	27.5°	5652.0	4679.1	2199.5	1284.2	1147.2	1120.7	1098.9	1083.4	1060.0	1028.9
6859.9	30°	6084.7	4873.7	2009.6	1215.7	1100.5	1074.0	1049.1	1025.8	991.5	952.6
7577.5	32.5°	6593.7	5082.3	1871.0	1170.6	1058.5	1030.5	1000.9	972.9	935.5	896.6
8383.8	35°	7200.8	5334.4	1790.1	1139.4	1025.8	988.4	955.7	924.6	896.6	862.3
9260.1	37.5°	7859.2	5602.1	1765.2	1123.9	1004.0	946.4	909.0	887.3	884.1	863.9
10208.1	40°	8579.9	5919.7	1783.8	1114.5	980.6	905.9	865.5	860.8	868.6	832.8
11221.4	42.5°	9342.6	6296.4	1815.0	1103.6	948.0	865.5	826.5	826.5	820.3	770.5
12292.4	45°	10167.6	6730.7	1846.1	1077.2	909.0	825.0	795.4	784.5	758.1	709.8
13369.5	47.5°	10998.8	7172.7	1869.5	1028.9	862.3	790.7	764.3	739.4	700.5	656.9
14426.4	50°	11788.0	7569.7	1844.6	957.3	809.4	758.1	730.0	695.8	653.8	624.2
15427.3	52.5°	12493.2	7913.7	1738.7	873.2	753.4	723.8	698.9	663.1	628.9	597.7
16330.1	55°	13106.4	8192.3	1551.9	793.9	703.6	694.2	669.3	624.2	577.5	551.0
17225.2	57.5°	13694.8	8404.0	1318.4	728.5	658.4	661.5	624.2	583.7	540.1	512.1
18431.5	60°	14477.8	8687.3	1081.8	667.8	610.2	619.5	579.0	549.5	495.0	459.2
20500.2	62.5°	15729.3	9127.8	859.2	593.1	554.1	557.3	540.1	504.3	439.0	396.9
22033.5	65°	16722.4	8965.9	677.1	512.1	490.3	495.0	495.0	456.1	386.0	337.8
22116.0	67.5°	16610.3	7677.1	540.1	432.7	429.6	432.7	443.6	410.9	342.4	303.5
20431.7	70°	15301.2	6106.5	432.7	359.6	373.6	365.8	396.9	375.1	308.2	269.3
15839.8	72.5°	12485.4	4398.9	330.0	297.3	286.4	298.9	358.0	337.8	256.8	213.3
8390.0	75°	7295.7	2347.3	245.9	235.0	207.0	249.1	317.5	288.0	196.1	157.2
2571.5	77.5°	2375.3	818.8	180.6	172.8	154.1	200.8	270.8	242.8	160.3	124.5
753.4	80°	636.6	247.5	123.0	113.6	99.6	149.4	214.8	193.0	115.2	80.9
323.8	82.5°	255.3	104.3	71.6	63.8	54.5	102.7	169.7	155.7	85.6	51.4
101.2	85°	82.5	34.2	26.5	20.2	24.9	63.8	101.2	105.8	60.7	26.5
15.6	87.5°	10.9	4.7	4.7	6.2	4.7	10.9	31.1	29.6	17.1	3.1
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>
3581.7
3158.3
2555.9
1976.9
1614.2
1481.9
1436.7
1385.4
1313.8
1221.9
1122.3
1025.8
949.5
898.1
859.2
862.3
834.3
770.5
708.2
655.3
619.5
594.6
547.9
509.0
454.5
393.8
333.1
297.3
264.6
208.6
152.5
119.9
79.4
51.4
20.2
0.0
0.0

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