

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: P941346

Luminaire Tested: **GALN-SB4D-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941346
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-SB4D-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 900mA 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: 28740 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

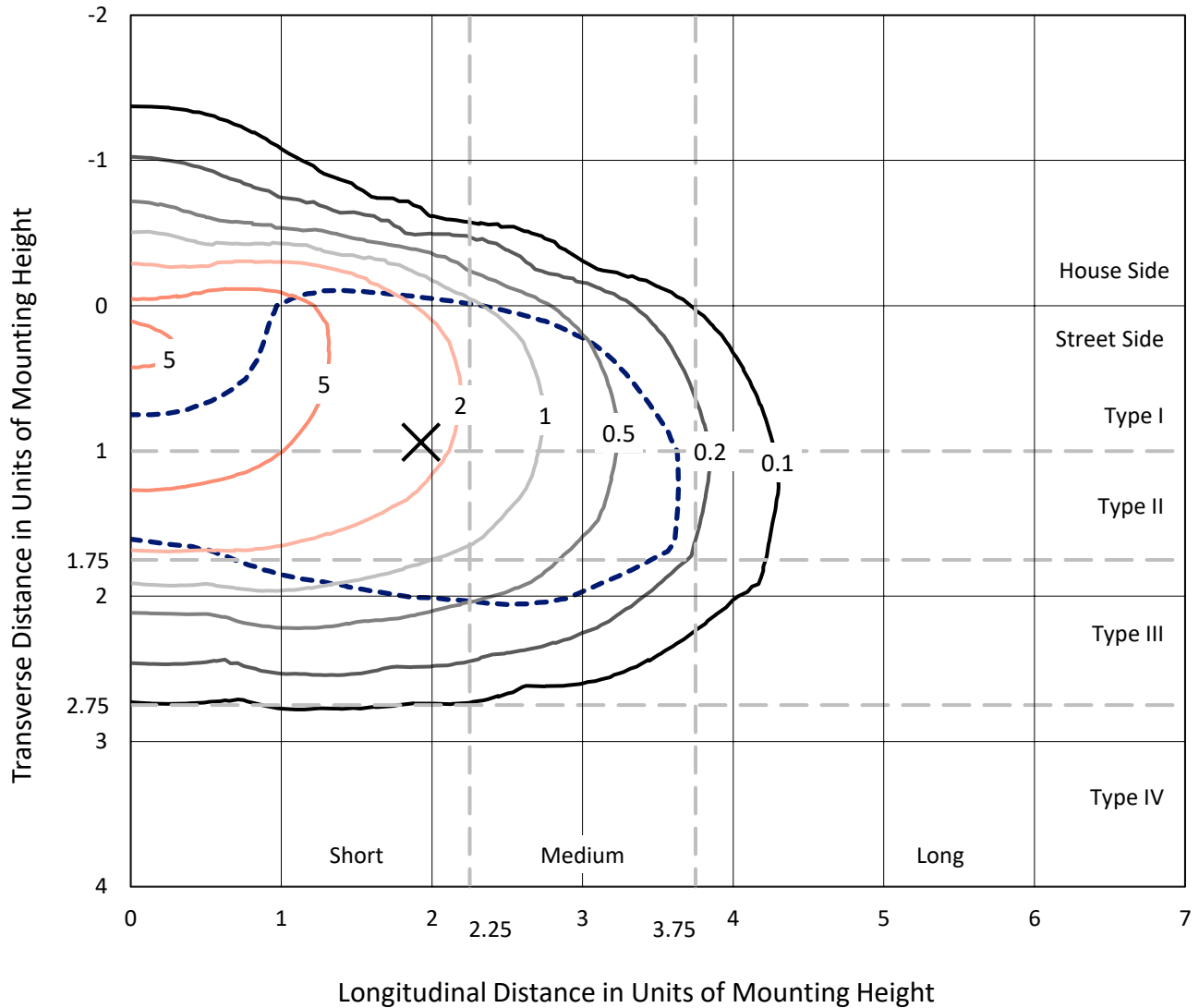
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

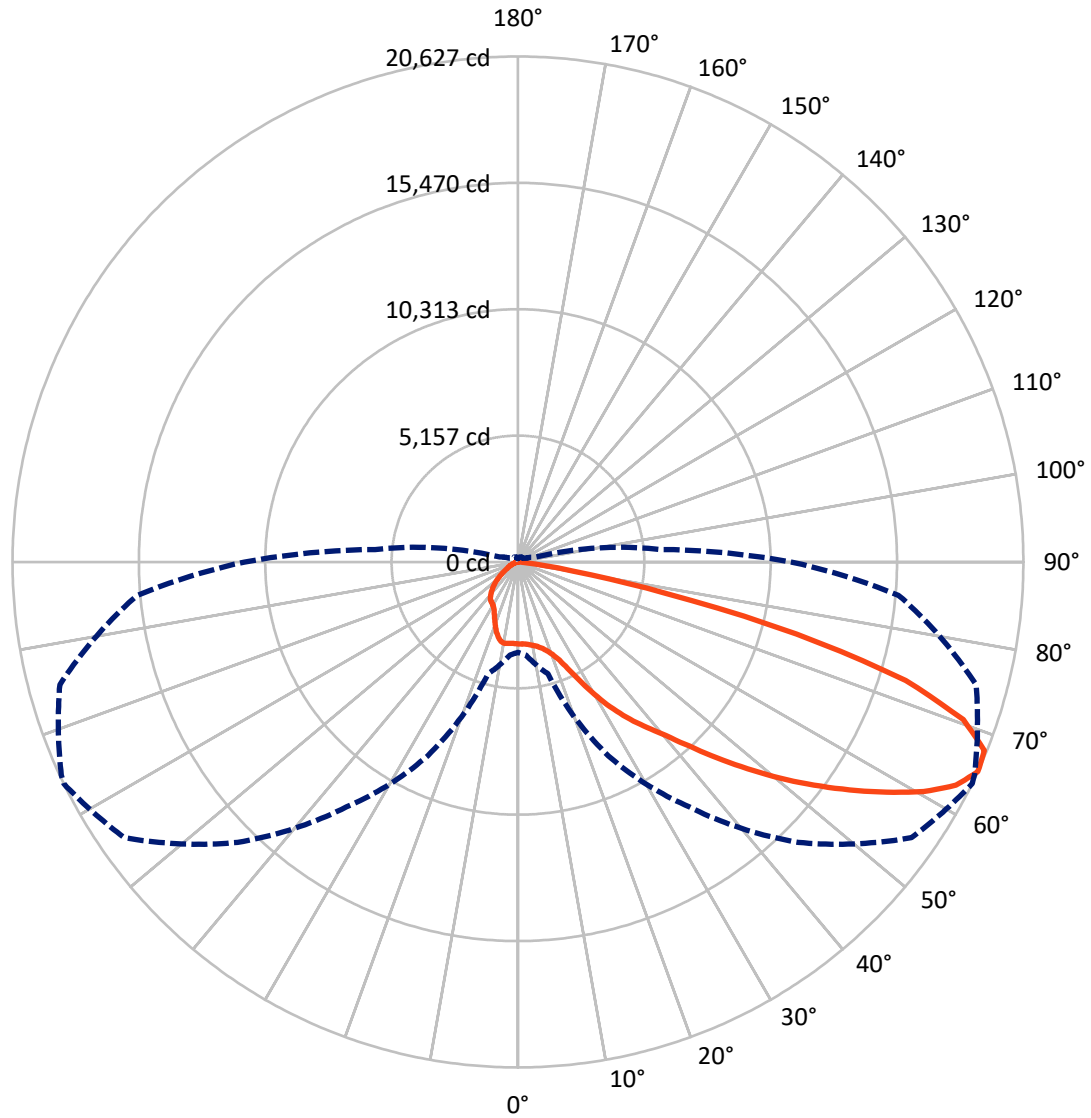
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	3843.4	0.0	3843.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	24896.6	0.0	24896.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	28740.0	0.0	28740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.4	1.1
10°-20°	836.5	2.9
20°-30°	1585.0	5.5
30°-40°	3207.4	11.2
40°-50°	5463.8	19.0
50°-60°	7430.4	25.9
60°-70°	6977.5	24.3
70°-80°	2795.5	9.7
80°-90°	135.4	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°	28740.0	100.0
0°-180°	28740.0	100.0

Coefficient of Utilization



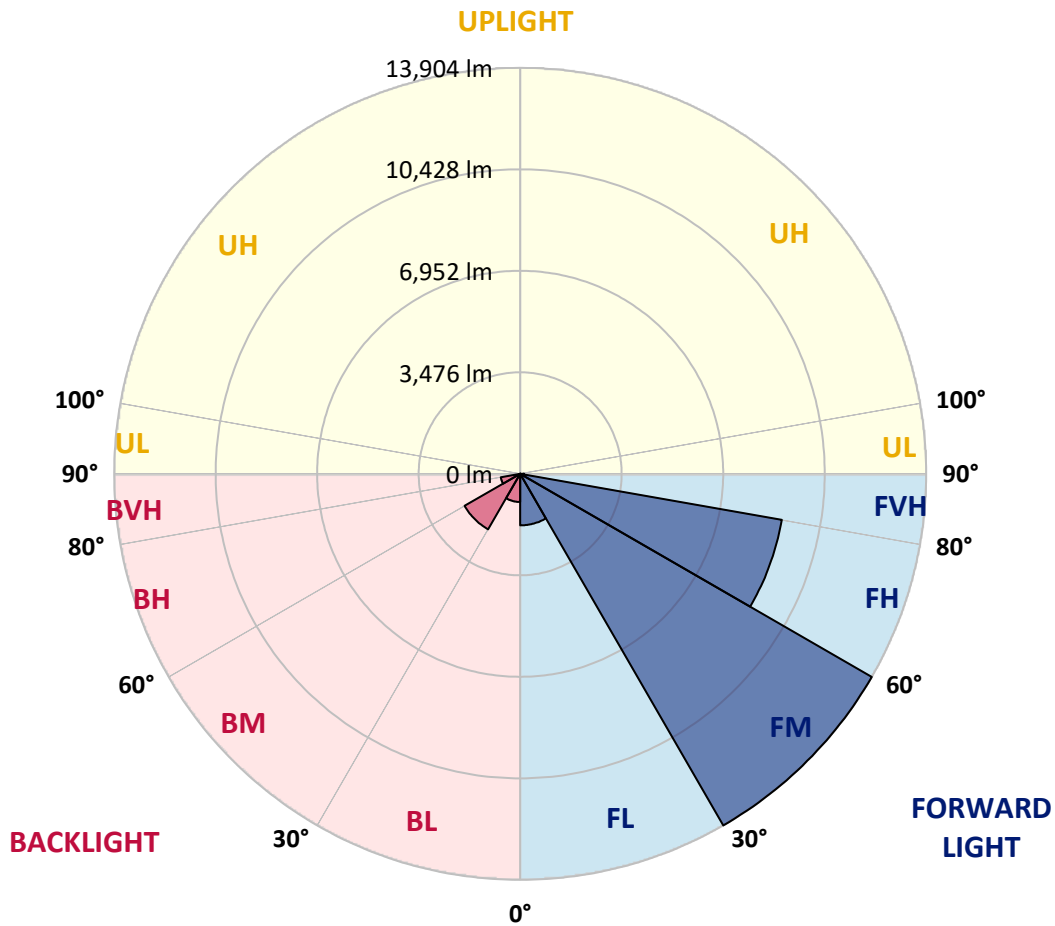
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1765.0	6.1			
FM (30°-60°)	13904.4	48.4			
FH (60°-80°)	9098.4	31.7			G4/12000
FVH (80°-90°)	128.8	0.4			G2/225
BL (0°-30°)	965.0	3.4	B2/1000		
BM (30°-60°)	2197.3	7.6	B2/2500		
BH (60°-80°)	674.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8
2.5°	3331.2	3354.3	3348.5	3342.8	3340.8	3344.7	3346.6	3344.7	3344.7	3344.7
5°	3267.6	3286.9	3286.9	3300.4	3319.6	3342.8	3360.1	3364.0	3367.8	3373.6
7.5°	3146.2	3161.7	3173.2	3217.5	3265.7	3327.3	3379.4	3406.3	3410.2	3431.4
10°	3063.4	3082.7	3101.9	3148.2	3217.5	3310.0	3398.6	3464.1	3473.8	3523.9
12.5°	3059.5	3078.8	3103.9	3153.9	3234.9	3333.1	3441.0	3535.4	3552.8	3626.0
15°	3100.0	3123.1	3146.2	3207.9	3294.6	3414.0	3529.6	3647.2	3664.5	3768.6
17.5°	3182.8	3213.7	3231.0	3292.7	3385.1	3518.1	3670.3	3805.2	3820.6	3942.0
20°	3346.6	3383.2	3389.0	3439.1	3529.6	3672.2	3853.3	4020.9	4040.2	4178.9
22.5°	3685.7	3737.7	3691.5	3716.5	3797.5	3940.0	4136.5	4348.5	4375.5	4533.4
25°	4283.0	4356.2	4236.7	4194.3	4229.0	4377.4	4624.0	4891.8	4922.6	5049.8
27.5°	5456.3	5361.9	5180.8	5003.5	4899.5	4984.3	5261.7	5593.1	5631.6	5754.9
30°	6745.2	6662.4	6417.7	6024.7	5778.1	5764.6	6020.8	6390.7	6435.1	6552.6
32.5°	8036.1	7957.1	7691.2	7207.6	6779.9	6568.0	6745.2	7155.6	7178.7	7253.9
35°	9305.8	9224.9	8959.0	8463.8	7937.9	7456.2	7421.5	7883.9	7891.6	7970.6
37.5°	10583.2	10515.7	10232.5	9747.0	9228.7	8564.0	8242.3	8573.7	8583.3	8660.4
40°	11494.5	11523.4	11328.8	10953.1	10508.0	9781.7	9163.2	9307.7	9249.9	9379.0
42.5°	12276.7	12334.5	12165.0	11976.1	11718.0	11078.3	10303.8	10278.7	10186.3	10255.6
45°	12953.0	13001.1	12848.9	12804.6	12798.8	12349.9	11550.3	11400.1	11271.0	11257.5
47.5°	13201.5	13294.0	13359.5	13507.8	13796.8	13608.0	12839.3	12606.2	12461.7	12355.7
50°	13295.9	13394.2	13617.7	14049.2	14733.2	14814.1	14122.4	13860.4	13683.2	13490.5
52.5°	13168.7	13344.1	13644.6	14371.0	15363.2	15781.3	15353.6	15124.3	14922.0	14608.0
55°	12419.3	12594.6	13209.2	14367.1	15677.3	16459.5	16517.3	16415.2	16187.8	15692.7
57.5°	10839.4	11099.5	12072.5	13877.8	15671.5	17043.3	17657.9	17731.1	17476.8	16767.7
60°	8650.7	9003.3	10190.1	12793.0	15187.9	17359.2	18657.8	19023.9	18754.1	17827.4
62.5°	6036.2	6444.7	7567.9	11093.7	14082.0	17131.9	19388.0	20064.3	19860.0	18775.3
65°	3681.9	3812.9	4718.4	8729.7	12201.6	16180.1	19613.4	20626.9	20559.4	19355.3
67.5°	2452.6	2562.5	2822.6	5986.1	9471.5	14278.5	19074.0	20528.6	20547.9	19260.9
70°	1477.8	1572.2	1741.7	3481.5	6138.3	11301.8	17403.5	19276.3	19388.0	17998.9
72.5°	608.8	672.4	826.5	1577.9	3179.0	7173.0	13858.5	16550.0	16810.1	15133.9
75°	344.9	377.6	485.5	791.9	1379.5	3342.8	8394.5	11748.8	12132.2	10431.0
77.5°	229.3	244.7	314.0	512.5	776.4	1140.6	3587.4	6121.0	6853.1	5697.1
80°	154.1	167.6	215.8	342.9	504.8	489.4	1142.5	2267.7	2789.8	1957.5
82.5°	104.0	106.0	154.1	225.4	319.8	237.0	337.2	705.2	886.3	566.4
85°	59.7	57.8	113.7	131.0	142.6	98.3	102.1	211.9	277.4	238.9
87.5°	7.7	11.6	44.3	34.7	19.3	21.2	21.2	36.6	53.9	57.8
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°
3342.8	0°	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8
3346.6	2.5°	3346.6	3344.7	3338.9	3333.1	3319.6	3311.9	3315.8	3311.9	3310.0	3311.9
3371.7	5°	3371.7	3365.9	3350.5	3331.2	3304.2	3271.5	3250.3	3219.5	3190.6	3173.2
3439.1	7.5°	3439.1	3433.3	3412.1	3358.2	3271.5	3134.7	3009.4	2899.6	2816.8	2768.6
3547.0	10°	3547.0	3537.4	3504.6	3385.1	3157.8	2859.2	2610.6	2404.5	2269.6	2206.0
3674.1	12.5°	3674.1	3662.6	3604.8	3360.1	2942.0	2475.8	2132.8	1903.5	1778.3	1722.4
3820.6	15°	3824.4	3809.0	3695.3	3240.6	2628.0	2051.9	1737.9	1566.4	1485.5	1435.4
4007.5	17.5°	4011.3	3984.3	3762.8	3061.5	2286.9	1728.2	1495.1	1366.0	1294.7	1246.6
4252.1	20°	4254.1	4209.8	3816.7	2847.6	1972.9	1524.0	1331.3	1223.4	1169.5	1127.1
4598.9	22.5°	4593.2	4529.6	3882.2	2616.4	1751.3	1383.3	1209.9	1131.0	1086.6	1038.5
5082.5	25°	5013.2	4938.0	3963.1	2402.5	1599.1	1262.0	1121.3	1055.8	1003.8	947.9
5716.4	27.5°	5600.8	5465.9	4059.5	2227.2	1468.1	1157.9	1040.4	967.2	907.5	861.2
6435.1	30°	6255.9	6034.3	4144.3	2121.3	1348.7	1061.6	934.4	861.2	805.3	772.6
7080.5	32.5°	6876.3	6575.7	4200.1	2075.0	1240.8	951.8	818.8	739.8	697.5	687.8
7712.4	35°	7462.0	7065.1	4194.3	2030.7	1144.4	842.0	705.2	624.2	591.5	597.3
8392.5	37.5°	8136.3	7587.2	4153.9	1961.3	1065.4	741.8	606.9	535.6	506.7	508.6
9219.1	40°	8920.5	8190.2	4128.8	1830.3	978.7	649.3	526.0	468.2	447.0	439.3
10089.9	42.5°	9756.6	8774.0	4132.7	1682.0	870.9	566.4	470.1	421.9	402.7	396.9
11059.0	45°	10596.6	9330.8	4138.5	1527.8	757.2	502.9	429.6	389.2	377.6	369.9
12041.6	47.5°	11386.6	9804.8	4030.6	1362.2	645.4	454.7	396.9	369.9	360.3	350.7
13028.1	50°	12122.6	10120.8	3770.5	1169.5	556.8	416.2	371.8	352.6	342.9	333.3
13922.1	52.5°	12694.8	10170.9	3340.8	971.0	495.2	387.3	356.4	339.1	327.5	317.9
14644.6	55°	12949.1	9856.8	2730.1	786.1	447.0	362.2	341.0	323.7	310.2	300.6
15212.9	57.5°	12883.6	9196.0	2129.0	631.9	400.7	337.2	321.8	310.2	294.8	279.4
15673.4	60°	12561.8	8311.6	1604.9	526.0	358.4	310.2	300.6	290.9	269.7	246.6
15850.7	62.5°	12005.0	7199.9	1144.4	435.4	312.1	279.4	275.5	267.8	237.0	194.6
15588.6	65°	11153.5	5849.3	770.7	362.2	267.8	244.7	246.6	233.1	192.7	144.5
14629.2	67.5°	9908.8	4277.2	493.2	296.7	223.5	204.2	206.2	198.4	163.8	123.3
12810.4	70°	8323.2	2832.2	321.8	225.4	179.2	158.0	169.5	171.5	138.7	100.2
9831.8	72.5°	6101.7	1672.3	225.4	167.6	131.0	109.8	138.7	142.6	111.7	75.1
5914.9	75°	3477.6	793.8	169.5	121.4	80.9	77.1	107.9	107.9	77.1	50.1
2560.5	77.5°	1460.4	331.4	119.5	79.0	46.2	44.3	73.2	67.4	38.5	23.1
624.2	80°	421.9	148.4	63.6	38.5	19.3	17.3	28.9	21.2	9.6	3.9
237.0	82.5°	165.7	65.5	25.0	15.4	7.7	7.7	3.9	0.0	0.0	0.0
134.9	85°	98.3	27.0	11.6	5.8	1.9	0.0	0.0	0.0	0.0	0.0
28.9	87.5°	25.0	5.8	3.9	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>
3342.8
3319.6
3177.1
2770.5
2200.2
1716.7
1437.3
1242.7
1119.4
1030.8
942.1
851.6
766.8
693.6
597.3
516.3
437.4
395.0
369.9
350.7
333.3
316.0
298.6
277.4
242.8
190.7
140.6
117.5
96.3
71.3
46.2
23.1
3.9
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