

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: P950368

Luminaire Tested: **GALN-SB4D-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
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-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28006 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

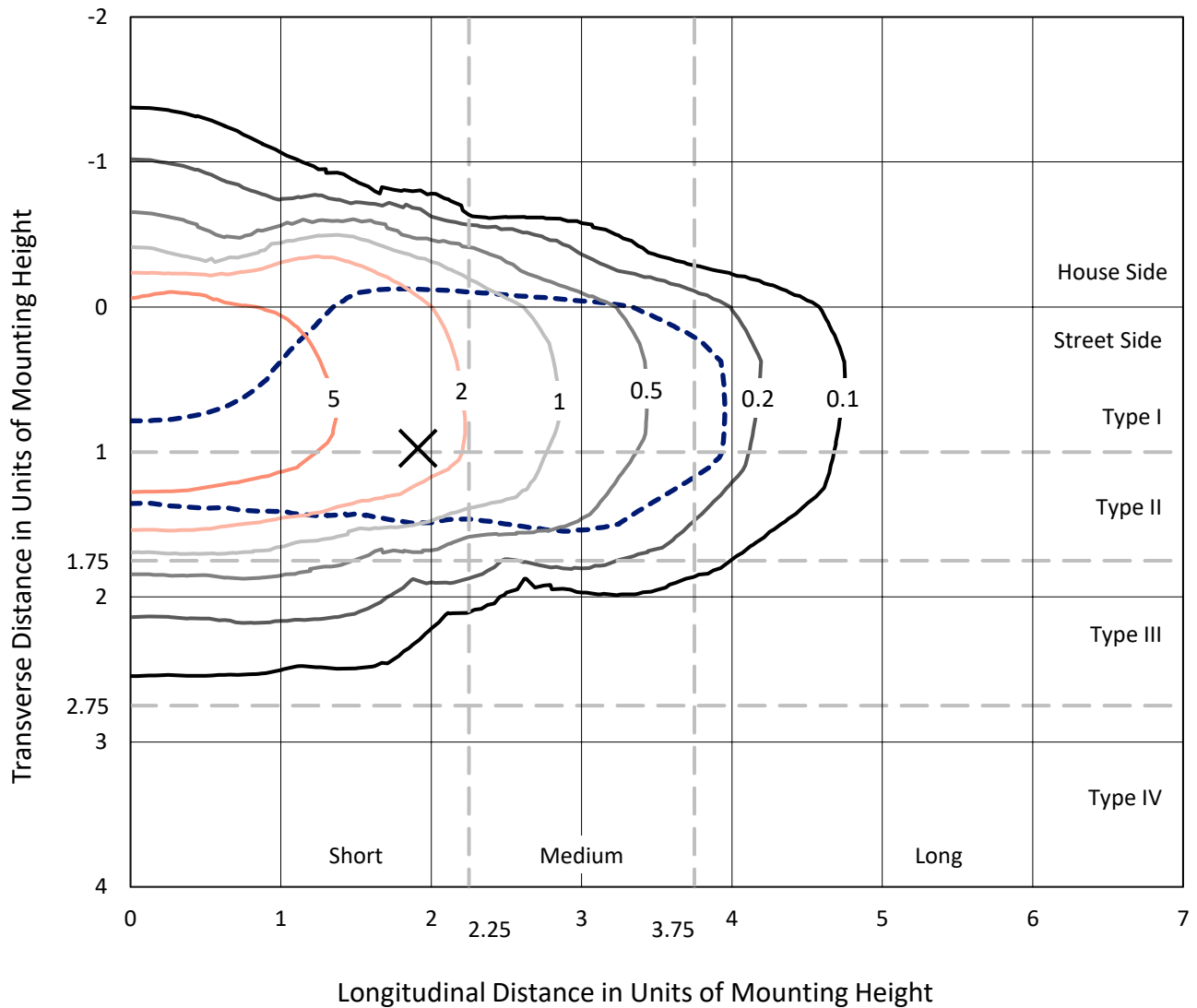
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

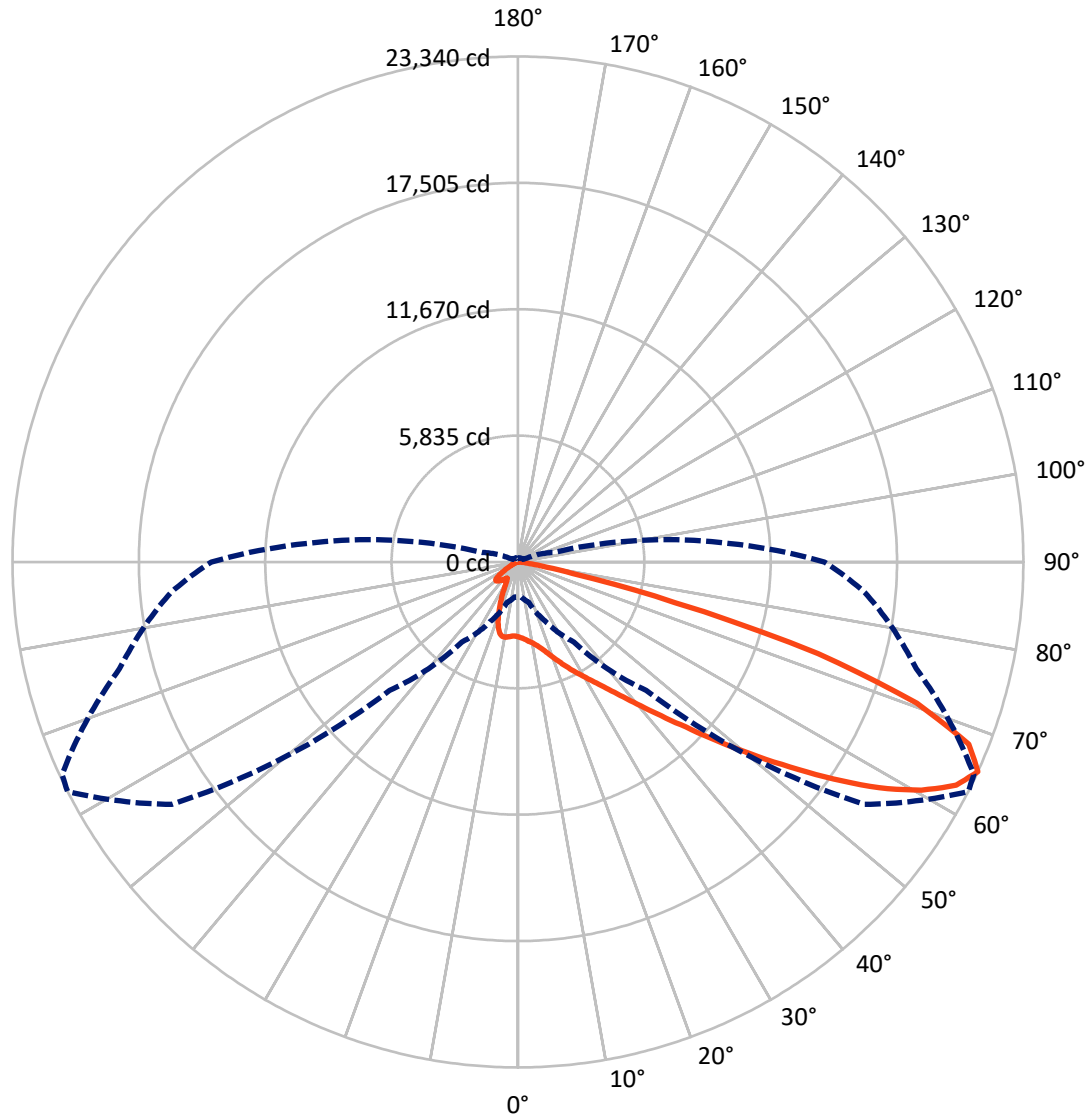
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4116.7	0.0	4116.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	23889.3	0.0	23889.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	28006.0	0.0	28006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.7	1.2
10°-20°	903.6	3.2
20°-30°	1573.4	5.6
30°-40°	2835.9	10.1
40°-50°	5624.5	20.1
50°-60°	7661.4	27.4
60°-70°	6115.3	21.8
70°-80°	2767.3	9.9
80°-90°	198.9	0.7
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°	28006.0	100.0
0°-180°	28006.0	100.0

Coefficient of Utilization



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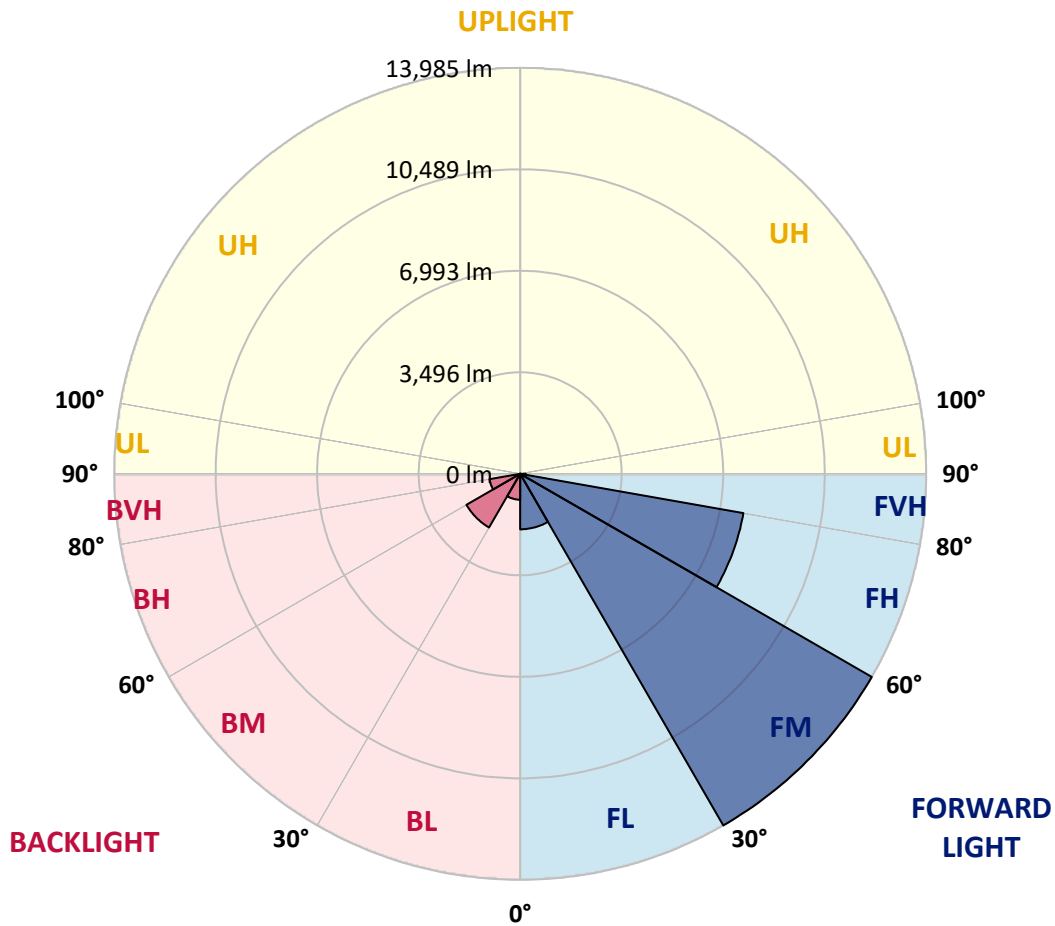
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1911.8	6.8			
FM (30°-60°)	13985.5	49.9			
FH (60°-80°)	7807.9	27.9			G4/12000
FVH (80°-90°)	184.2	0.7			G2/225
BL (0°-30°)	890.9	3.2	B2/1000		
BM (30°-60°)	2136.3	7.6	B2/2500		
BH (60°-80°)	1074.7	3.8	B3/2500		G3/2500
BVH (80°-90°)	14.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5
2.5°	3537.4	3527.8	3541.2	3535.5	3531.6	3523.9	3520.1	3516.2	3508.5	3502.7
5°	3547.0	3541.2	3554.7	3566.3	3577.9	3589.4	3595.2	3602.9	3595.2	3579.8
7.5°	3466.1	3462.2	3491.1	3525.8	3577.9	3622.2	3670.3	3697.3	3699.2	3693.5
10°	3460.3	3450.7	3479.6	3522.0	3589.4	3668.4	3753.2	3811.0	3818.7	3843.7
12.5°	3550.9	3541.2	3581.7	3627.9	3697.3	3780.2	3884.2	3965.1	3976.7	4011.4
15°	3703.1	3689.6	3735.8	3795.6	3884.2	3978.6	4088.4	4161.6	4171.3	4213.7
17.5°	3880.3	3866.9	3920.8	3984.4	4080.7	4209.8	4337.0	4417.9	4429.4	4456.4
20°	4107.7	4090.3	4132.7	4190.5	4292.7	4446.8	4599.0	4714.6	4712.7	4712.7
22.5°	4371.6	4344.7	4381.3	4427.5	4523.9	4710.7	4913.0	5049.8	5049.8	4995.9
25°	4654.9	4627.9	4668.4	4710.7	4795.5	5007.4	5244.4	5414.0	5421.7	5329.2
27.5°	5009.4	4974.7	5005.5	5055.6	5105.7	5321.5	5602.8	5799.3	5803.2	5660.6
30°	5691.4	5593.2	5496.8	5442.9	5466.0	5679.9	5980.4	6198.1	6217.4	6020.9
32.5°	6939.9	6920.6	6581.5	6138.4	5907.2	6065.2	6402.4	6664.4	6676.0	6423.6
35°	8880.1	8857.0	8311.7	7467.8	6714.5	6581.5	6914.9	7225.1	7217.4	6932.2
37.5°	11196.0	11174.8	10456.1	9327.1	8107.5	7361.9	7575.7	7901.3	7949.5	7575.7
40°	13174.7	13095.7	12641.0	11552.4	9957.1	8656.6	8515.9	8731.7	8781.8	8338.7
42.5°	14673.6	14606.2	14375.0	13694.9	12195.9	10571.7	9623.8	9706.6	9762.5	9230.7
45°	15450.1	15434.7	15527.1	15463.6	14477.1	12922.3	11207.5	10862.6	10883.8	10219.1
47.5°	15559.9	15552.2	15974.1	16571.4	16438.5	15573.4	13240.2	12303.8	12228.7	11334.7
50°	14912.5	14897.1	15706.3	16825.7	17748.6	17800.6	15548.3	13928.0	13762.3	12488.8
52.5°	12845.2	12841.3	14170.8	16033.9	18209.1	19750.4	17829.5	15712.1	15434.7	13710.3
55°	9883.9	9955.2	11479.2	13681.4	17369.0	20688.7	19877.6	17692.7	17266.9	14939.5
57.5°	7001.6	7105.6	8612.3	10573.6	14764.2	20133.8	21262.9	19677.2	19218.7	16164.9
60°	3760.9	3853.4	5362.0	7702.9	10984.0	18064.6	21993.1	21399.7	20966.2	17328.6
62.5°	2240.7	2271.6	2895.8	4972.8	7429.3	13800.8	21682.9	22711.7	22355.3	18305.4
65°	1608.8	1614.6	1928.6	3036.5	4510.4	8384.9	19507.7	23339.8	23230.0	19041.4
67.5°	1354.5	1350.6	1481.6	2017.2	3073.1	4200.2	14951.1	22451.6	22917.9	19507.7
70°	1161.8	1167.6	1321.7	1477.8	2310.1	2377.5	7433.1	19548.1	20542.3	19631.0
72.5°	865.1	884.3	1026.9	1346.8	1743.6	1635.8	2566.3	14494.4	16292.0	18496.2
75°	610.8	620.4	722.5	1132.9	1300.5	1190.7	1310.1	7492.9	9797.2	14180.4
77.5°	470.1	487.5	547.2	791.9	1281.2	836.2	801.5	2593.3	3984.4	8566.0
80°	254.3	285.1	395.0	572.2	899.8	591.5	396.9	1032.7	1350.6	4005.6
82.5°	131.0	146.4	275.5	412.3	512.5	516.4	196.5	429.7	556.8	1236.9
85°	52.0	63.6	185.0	227.3	264.0	254.3	88.6	173.4	200.4	342.9
87.5°	11.6	19.3	67.4	52.0	50.1	53.9	21.2	40.5	38.5	40.5
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°
3456.5	0°	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5
3479.6	2.5°	3477.7	3470.0	3448.8	3425.6	3398.7	3383.3	3373.6	3371.7	3358.2	3348.6
3556.7	5°	3535.5	3527.8	3487.3	3439.1	3387.1	3346.6	3308.1	3273.4	3223.3	3213.7
3668.4	7.5°	3651.1	3629.9	3564.4	3498.9	3400.6	3283.1	3140.5	2976.7	2830.3	2786.0
3816.8	10°	3793.6	3764.7	3681.9	3566.3	3348.6	3028.7	2683.9	2364.0	2109.7	2038.4
3992.1	12.5°	3955.5	3930.4	3820.6	3606.8	3130.9	2550.9	2023.0	1626.1	1379.5	1317.9
4179.0	15°	4148.1	4111.5	3959.3	3545.1	2741.7	1938.2	1389.1	1154.1	1065.5	1053.9
4392.8	17.5°	4352.4	4292.7	4082.6	3323.5	2217.6	1377.6	1073.2	1005.7	967.2	955.6
4608.6	20°	4539.3	4462.2	4155.9	2988.3	1656.9	1073.2	961.4	917.1	882.4	868.9
4824.4	22.5°	4726.2	4616.3	4155.9	2531.7	1242.7	951.8	882.4	842.0	801.5	784.2
5055.6	25°	4920.7	4774.3	4082.6	2023.0	999.9	872.8	807.3	763.0	728.3	707.1
5275.3	27.5°	5109.6	4907.3	3915.0	1541.3	890.1	803.4	737.9	695.5	662.8	647.4
5514.2	30°	5288.7	5038.3	3680.0	1169.5	818.8	736.0	674.3	637.7	605.0	589.6
5824.4	32.5°	5531.5	5204.0	3429.5	959.5	757.2	672.4	616.5	581.9	553.0	541.4
6227.0	35°	5868.7	5448.7	3213.7	942.1	705.2	620.4	564.5	531.8	502.9	493.2
6747.2	37.5°	6346.5	5843.6	3100.0	1057.7	662.8	574.2	522.1	487.5	460.5	452.8
7408.1	40°	6936.1	6379.2	3161.7	1173.4	633.9	533.7	483.6	448.9	425.8	416.2
8167.2	42.5°	7635.4	7040.1	3502.7	1262.0	614.6	499.0	447.0	408.5	393.0	389.2
9028.4	45°	8438.9	7766.5	4024.8	1356.4	583.8	466.3	410.4	381.5	369.9	368.0
9964.8	47.5°	9352.1	8564.1	4629.8	1473.9	553.0	435.4	381.5	362.2	352.6	348.7
10941.6	50°	10257.7	9367.5	5252.1	1539.4	527.9	406.5	358.4	342.9	335.2	333.3
11974.3	52.5°	11205.6	10194.1	5755.0	1477.8	506.7	383.4	339.1	327.5	319.8	317.9
12926.1	55°	12109.2	10862.6	5841.7	1254.3	464.3	360.3	317.9	312.1	302.5	302.5
13891.4	57.5°	12887.6	11197.9	5229.0	921.0	421.9	325.6	296.7	290.9	283.2	281.3
14762.2	60°	13602.4	11101.5	4036.4	620.4	375.7	290.9	269.7	265.9	258.2	248.5
15519.4	62.5°	14005.1	10677.7	2760.9	404.6	329.5	254.3	238.9	237.0	219.6	200.4
16080.1	65°	14157.3	9806.8	1722.5	294.8	275.5	217.7	206.2	202.3	177.3	156.1
16398.0	67.5°	14024.3	8373.4	868.9	233.1	217.7	181.1	169.5	169.5	152.2	132.9
16378.7	70°	13492.6	6277.1	366.1	186.9	167.6	138.7	138.7	146.4	129.1	107.9
15529.1	72.5°	12338.5	4223.3	194.6	142.6	125.2	98.3	113.7	119.5	102.1	80.9
12710.3	75°	9808.7	2576.0	134.9	106.0	79.0	69.4	86.7	90.6	69.4	53.9
8714.4	77.5°	6708.7	1479.7	90.6	67.4	50.1	40.5	59.7	55.9	36.6	25.0
3360.1	80°	2945.9	616.5	52.0	30.8	19.3	15.4	21.2	15.4	11.6	7.7
460.5	82.5°	344.9	144.5	19.3	11.6	7.7	3.9	1.9	0.0	0.0	0.0
140.6	85°	71.3	17.3	9.6	3.9	1.9	0.0	0.0	0.0	0.0	0.0
25.0	87.5°	13.5	3.9	1.9	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>
3456.5
3358.2
3209.9
2764.8
2011.5
1300.5
1042.3
949.9
861.2
774.5
699.4
647.4
591.5
541.4
493.2
450.8
414.2
389.2
366.1
348.7
333.3
317.9
300.6
279.4
246.6
196.5
154.1
131.0
106.0
80.9
52.0
27.0
7.7
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