

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: P941366

Luminaire Tested: **GALN-SB4D-840-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941366  
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-840-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

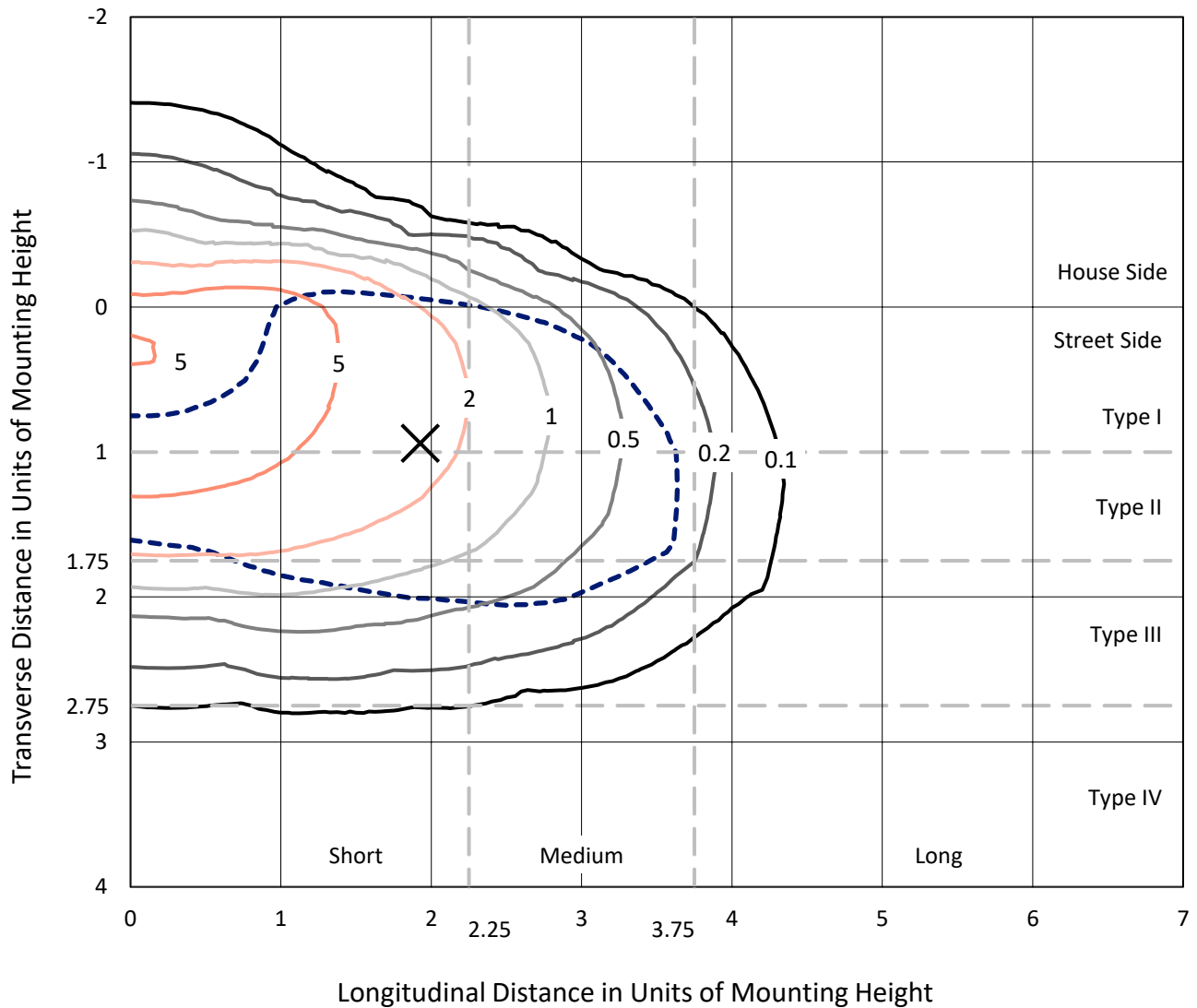
Lumens per Lamp: N/A  
Luminaire Lumens: 30595 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

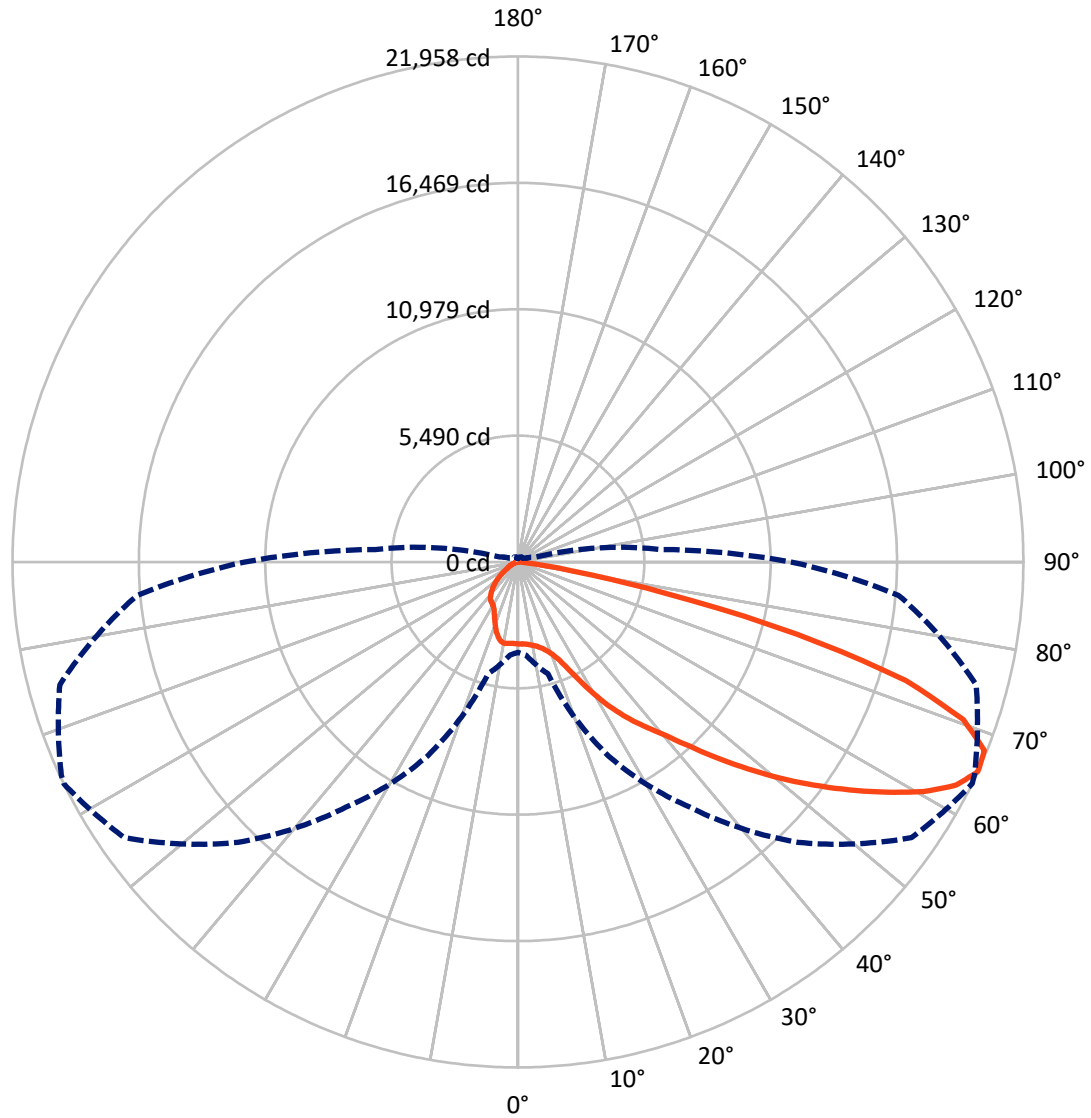
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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
<b>House Side</b>	Lumens	4091.5	0.0	4091.5
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	26503.5	0.0	26503.5
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	30595.0	0.0	30595.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	328.3	1.1
10°-20°	890.5	2.9
20°-30°	1687.4	5.5
30°-40°	3414.4	11.2
40°-50°	5816.5	19.0
50°-60°	7910.0	25.9
60°-70°	7427.9	24.3
70°-80°	2975.9	9.7
80°-90°	144.2	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°	30595.0	100.0
0°-180°	30595.0	100.0

**Coefficient of Utilization**



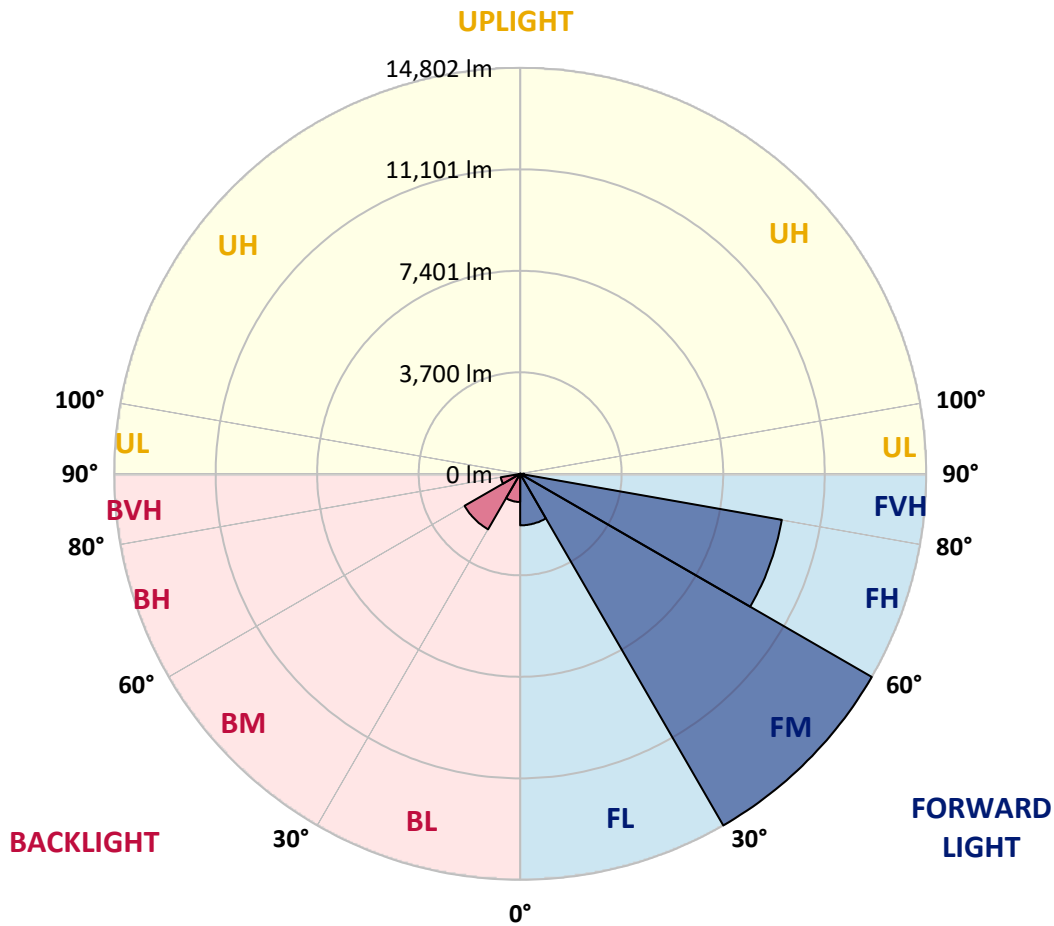
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1878.9	6.1			
FM (30°-60°)	14801.8	48.4			
FH (60°-80°)	9685.7	31.7			G4/12000
FVH (80°-90°)	137.1	0.4			G2/225
BL (0°-30°)	1027.2	3.4	B3/2500		
BM (30°-60°)	2339.1	7.6	B2/2500		
BH (60°-80°)	718.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.0	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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5
2.5°	3546.2	3570.8	3564.7	3558.5	3556.5	3560.6	3562.6	3560.6	3560.6	3560.6
5°	3478.5	3499.0	3499.0	3513.4	3533.9	3558.5	3577.0	3581.1	3585.2	3591.3
7.5°	3349.3	3365.7	3378.0	3425.2	3476.5	3542.1	3597.5	3626.2	3630.3	3652.9
10°	3261.1	3281.6	3302.1	3351.4	3425.2	3523.6	3618.0	3687.7	3698.0	3751.3
12.5°	3257.0	3277.5	3304.2	3357.5	3443.7	3548.3	3663.1	3763.6	3782.1	3860.0
15°	3300.1	3324.7	3349.3	3414.9	3507.2	3634.4	3757.5	3882.6	3901.0	4011.8
17.5°	3388.3	3421.1	3439.6	3505.2	3603.6	3745.2	3907.2	4050.8	4067.2	4196.4
20°	3562.6	3601.6	3607.7	3661.1	3757.5	3909.2	4102.0	4280.5	4301.0	4448.7
22.5°	3923.6	3979.0	3929.8	3956.4	4042.6	4194.3	4403.5	4629.1	4657.9	4826.0
25°	4559.4	4637.4	4510.2	4465.1	4502.0	4659.9	4922.4	5207.5	5240.4	5375.7
27.5°	5808.5	5708.0	5515.2	5326.5	5215.7	5306.0	5601.3	5954.1	5995.1	6126.4
30°	7180.6	7092.4	6831.9	6413.5	6151.0	6136.6	6409.4	6803.2	6850.4	6975.5
32.5°	8554.8	8470.7	8187.7	7672.9	7217.5	6991.9	7180.6	7617.5	7642.1	7722.1
35°	9906.4	9820.3	9537.2	9010.1	8450.2	7937.4	7900.5	8392.8	8401.0	8485.1
37.5°	11266.2	11194.5	10893.0	10376.1	9824.4	9116.8	8774.3	9127.0	9137.3	9219.3
40°	12236.4	12267.1	12060.0	11660.0	11186.3	10413.0	9754.6	9908.5	9846.9	9984.4
42.5°	13069.1	13130.6	12950.1	12749.1	12474.3	11793.4	10968.8	10942.2	10843.7	10917.6
45°	13789.0	13840.3	13678.2	13631.1	13624.9	13147.0	12295.9	12135.9	11998.5	11984.1
47.5°	14053.6	14152.0	14221.8	14379.7	14687.3	14486.3	13668.0	13419.8	13266.0	13153.2
50°	14154.1	14258.7	14496.6	14956.0	15684.1	15770.3	15034.0	14755.0	14566.3	14361.2
52.5°	14018.7	14205.4	14525.3	15298.5	16354.8	16799.9	16344.6	16100.5	15885.1	15550.8
55°	13220.9	13407.5	14061.8	15294.4	16689.1	17521.8	17583.4	17474.7	17232.7	16705.5
57.5°	11539.0	11815.9	12851.7	14773.5	16683.0	18143.3	18797.6	18875.5	18604.8	17850.0
60°	9209.1	9584.4	10847.8	13618.8	16168.2	18479.7	19862.1	20251.8	19964.6	18978.1
62.5°	6425.8	6860.7	8056.4	11809.8	14990.9	18237.7	20639.4	21359.3	21141.9	19987.2
65°	3919.5	4059.0	5022.9	9293.2	12989.1	17224.4	20879.4	21958.2	21886.4	20604.5
67.5°	2610.9	2727.9	3004.7	6372.5	10082.8	15200.1	20305.1	21853.6	21874.1	20504.0
70°	1573.1	1673.6	1854.1	3706.2	6534.5	12031.3	18526.8	20520.4	20639.4	19160.6
72.5°	648.1	715.8	879.9	1679.8	3384.2	7635.9	14753.0	17618.2	17895.1	16110.7
75°	367.1	402.0	516.9	843.0	1468.5	3558.5	8936.3	12507.1	12915.3	11104.2
77.5°	244.1	260.5	334.3	545.6	826.6	1214.2	3819.0	6516.1	7295.5	6064.9
80°	164.1	178.4	229.7	365.1	537.4	521.0	1216.3	2414.0	2969.9	2083.8
82.5°	110.8	112.8	164.1	240.0	340.5	252.3	358.9	750.7	943.5	603.0
85°	63.6	61.5	121.0	139.5	151.8	104.6	108.7	225.6	295.3	254.3
87.5°	8.2	12.3	47.2	36.9	20.5	22.6	22.6	39.0	57.4	61.5
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°
3558.5	0°	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5	3558.5
3562.6	2.5°	3562.6	3560.6	3554.4	3548.3	3533.9	3525.7	3529.8	3525.7	3523.6	3525.7
3589.3	5°	3589.3	3583.1	3566.7	3546.2	3517.5	3482.6	3460.1	3427.3	3396.5	3378.0
3661.1	7.5°	3661.1	3654.9	3632.4	3574.9	3482.6	3337.0	3203.7	3086.8	2998.6	2947.3
3775.9	10°	3775.9	3765.7	3730.8	3603.6	3361.6	3043.7	2779.1	2559.7	2416.1	2348.4
3911.3	12.5°	3911.3	3899.0	3837.5	3577.0	3131.9	2635.6	2270.5	2026.4	1893.1	1833.6
4067.2	15°	4071.3	4054.9	3933.9	3449.8	2797.6	2184.3	1850.0	1667.5	1581.3	1528.0
4266.1	17.5°	4270.2	4241.5	4005.6	3259.1	2434.6	1839.8	1591.6	1454.2	1378.3	1327.0
4526.6	20°	4528.6	4481.5	4063.1	3031.4	2100.2	1622.4	1417.3	1302.4	1245.0	1199.8
4895.8	22.5°	4889.6	4821.9	4132.8	2785.3	1864.4	1472.6	1288.0	1203.9	1156.8	1105.5
5410.6	25°	5336.7	5256.8	4218.9	2557.6	1702.3	1343.4	1193.7	1124.0	1068.6	1009.1
6085.4	27.5°	5962.3	5818.7	4321.5	2371.0	1562.9	1232.7	1107.5	1029.6	966.0	916.8
6850.4	30°	6659.7	6423.8	4411.7	2258.2	1435.7	1130.1	994.7	916.8	857.3	822.5
7537.5	32.5°	7320.1	7000.1	4471.2	2208.9	1320.9	1013.2	871.7	787.6	742.5	732.2
8210.2	35°	7943.6	7521.1	4465.1	2161.8	1218.3	896.3	750.7	664.5	629.7	635.8
8934.2	37.5°	8661.4	8076.9	4422.0	2087.9	1134.2	789.6	646.1	570.2	539.4	541.5
9814.1	40°	9496.2	8718.9	4395.3	1948.5	1041.9	691.2	559.9	498.4	475.8	467.6
10741.2	42.5°	10386.4	9340.3	4399.4	1790.5	927.1	603.0	500.4	449.2	428.7	422.5
11772.8	45°	11280.6	9933.1	4405.6	1626.5	806.1	535.3	457.4	414.3	402.0	393.8
12818.9	47.5°	12121.5	10437.6	4290.7	1450.1	687.1	484.0	422.5	393.8	383.5	373.3
13869.0	50°	12905.0	10774.0	4013.8	1245.0	592.7	443.0	395.8	375.3	365.1	354.8
14820.7	52.5°	13514.2	10827.3	3556.5	1033.7	527.1	412.3	379.4	361.0	348.7	338.4
15589.8	55°	13784.9	10493.0	2906.3	836.8	475.8	385.6	363.0	344.6	330.2	320.0
16194.8	57.5°	13715.2	9789.5	2266.4	672.7	426.6	358.9	342.5	330.2	313.8	297.4
16685.0	60°	13372.6	8848.1	1708.5	559.9	381.5	330.2	320.0	309.7	287.1	262.5
16873.7	62.5°	12779.9	7664.7	1218.3	463.5	332.3	297.4	293.3	285.1	252.3	207.2
16594.8	65°	11873.3	6226.9	820.4	385.6	285.1	260.5	262.5	248.2	205.1	153.8
15573.4	67.5°	10548.4	4553.3	525.1	315.9	237.9	217.4	219.5	211.3	174.3	131.3
13637.2	70°	8860.4	3015.0	342.5	240.0	190.7	168.2	180.5	182.5	147.7	106.7
10466.3	72.5°	6495.6	1780.3	240.0	178.4	139.5	116.9	147.7	151.8	119.0	80.0
6296.6	75°	3702.1	845.0	180.5	129.2	86.1	82.0	114.9	114.9	82.0	53.3
2725.8	77.5°	1554.7	352.8	127.2	84.1	49.2	47.2	77.9	71.8	41.0	24.6
664.5	80°	449.2	157.9	67.7	41.0	20.5	18.5	30.8	22.6	10.3	4.1
252.3	82.5°	176.4	69.7	26.7	16.4	8.2	8.2	4.1	0.0	0.0	0.0
143.6	85°	104.6	28.7	12.3	6.2	2.1	0.0	0.0	0.0	0.0	0.0
30.8	87.5°	26.7	6.2	4.1	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>
3558.5
3533.9
3382.1
2949.4
2342.3
1827.5
1530.1
1322.9
1191.6
1097.3
1002.9
906.5
816.3
738.4
635.8
549.7
465.6
420.5
393.8
373.3
354.8
336.4
317.9
295.3
258.4
203.1
149.7
125.1
102.6
75.9
49.2
24.6
4.1
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