

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: P942025

Luminaire Tested: **GALN-SB5D-830-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942025  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5D-830-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45766 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

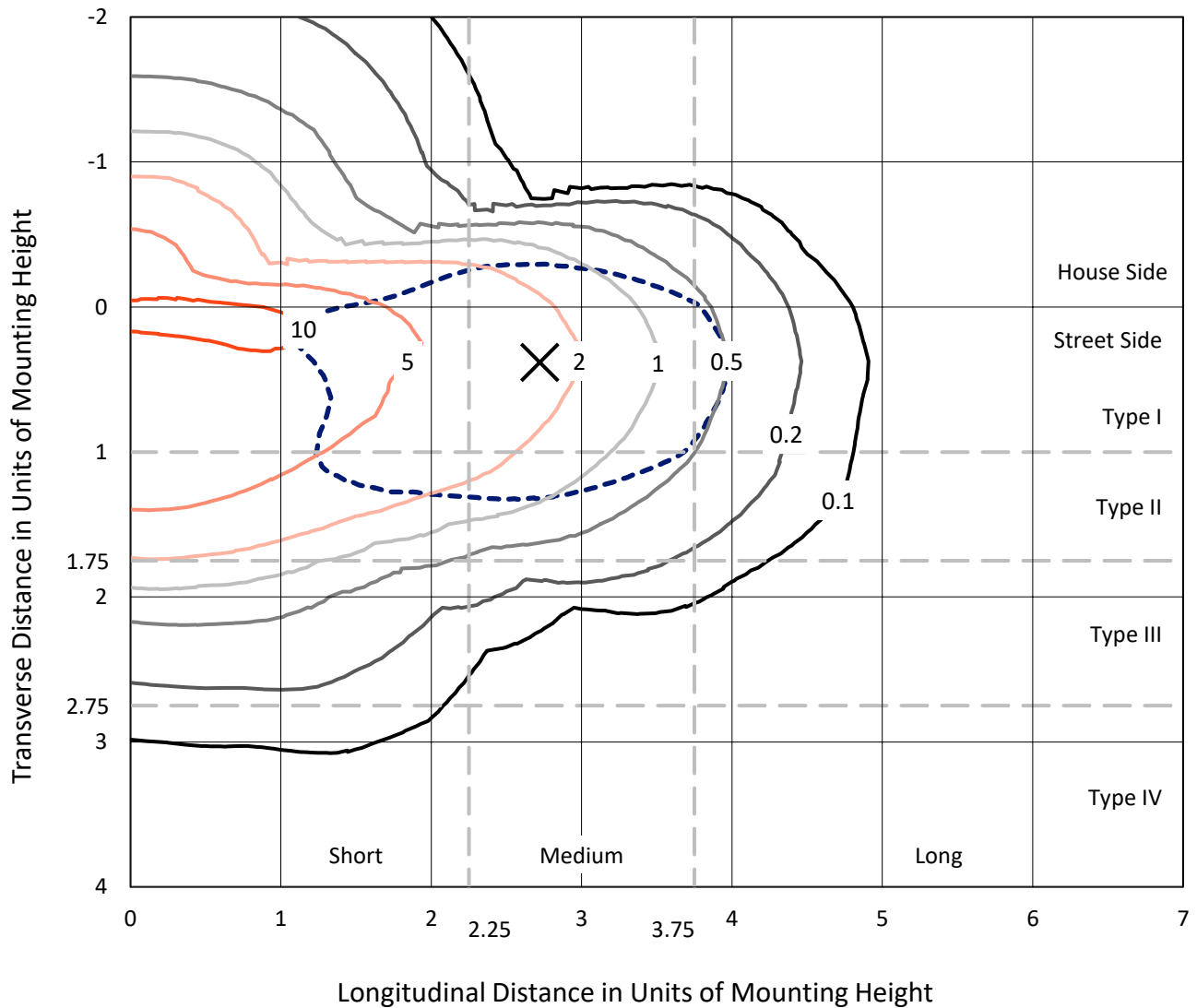
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

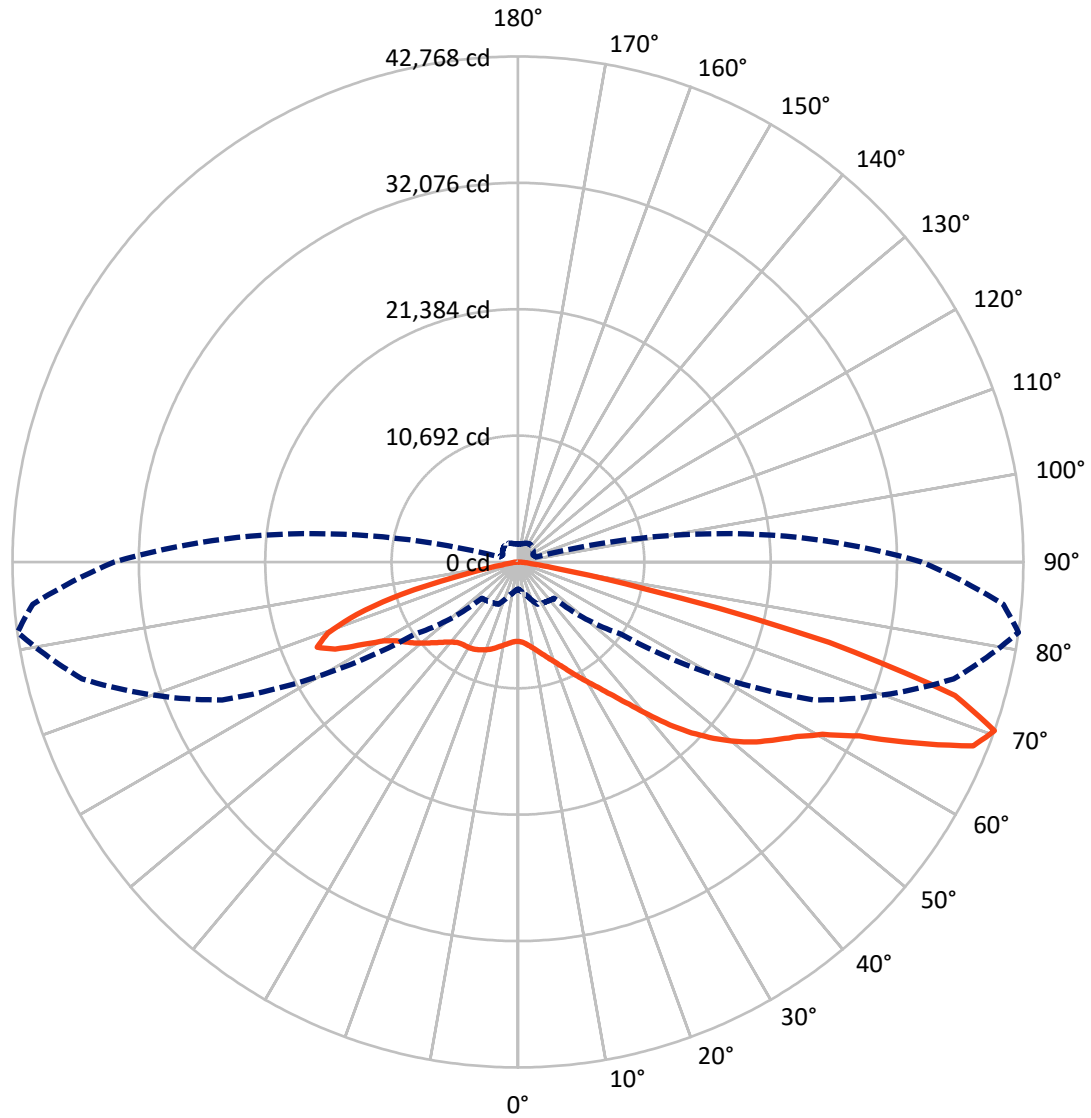
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11282.4	0.0	11282.4
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	34483.6	0.0	34483.6
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	45766.0	0.0	45766.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	633.5	1.4
10°-20°	1820.2	4.0
20°-30°	3045.0	6.7
30°-40°	4757.0	10.4
40°-50°	7576.1	16.6
50°-60°	10543.1	23.0
60°-70°	11028.5	24.1
70°-80°	5764.1	12.6
80°-90°	598.5	1.3
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°	45766.0	100.0
0°-180°	45766.0	100.0

**Coefficient of Utilization**



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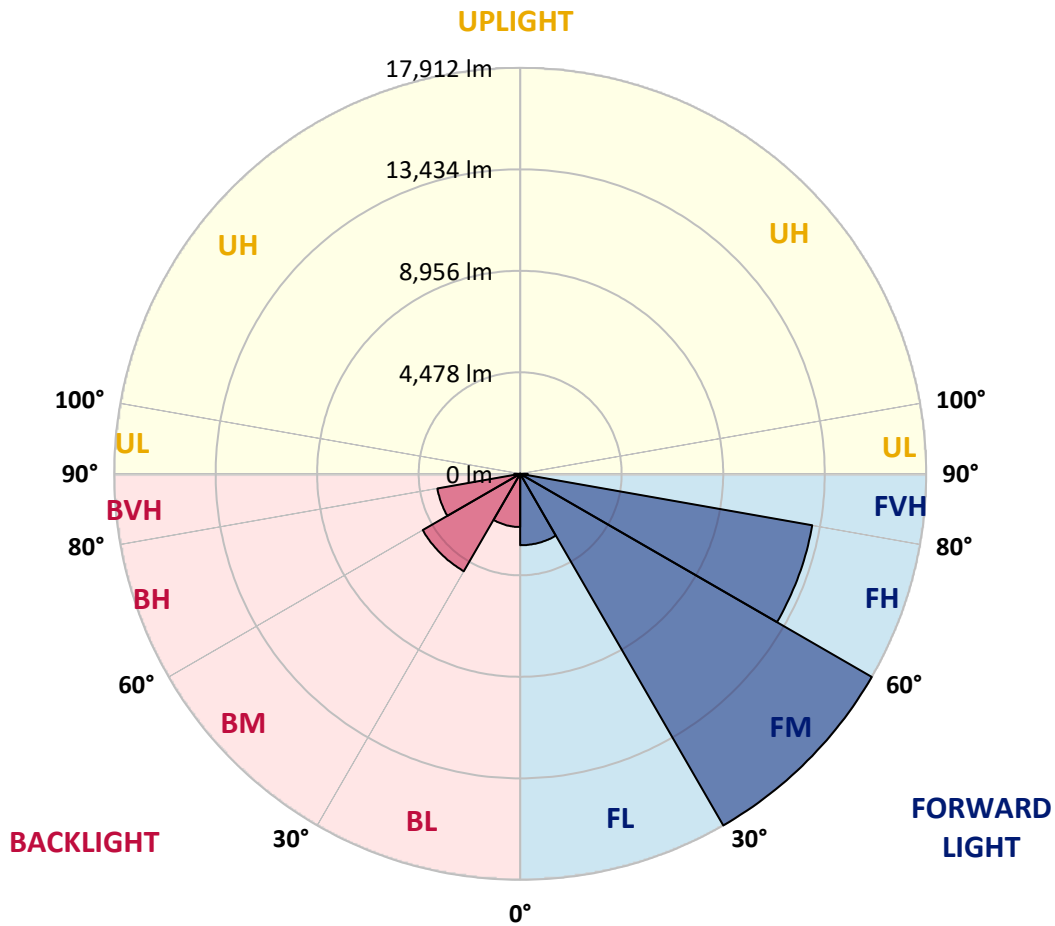
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3151.5	6.9			
FM (30°-60°)	17912.4	39.1			
FH (60°-80°)	13084.6	28.6			G5
FVH (80°-90°)	335.1	0.7			G3/500
BL (0°-30°)	2347.2	5.1	B3/2500		
BM (30°-60°)	4963.8	10.8	B3/5000		
BH (60°-80°)	3708.0	8.1	B4/5000		G4/5000
BVH (80°-90°)	263.5	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	6709.9	6709.9	6709.9	6709.9	6709.9	6709.9	6709.9	6709.9	6709.9	6709.9
2.5°	6870.1	6909.0	6896.9	6884.7	6884.7	6867.7	6865.3	6841.0	6821.6	6790.0
5°	6957.6	6998.9	6994.0	7003.7	7035.3	7042.6	7049.9	7035.3	6996.4	6957.6
7.5°	6879.9	6926.0	6940.6	6998.9	7096.0	7183.4	7249.0	7275.7	7239.3	7183.4
10°	6617.6	6668.6	6719.6	6858.0	7030.4	7236.8	7411.7	7516.1	7508.8	7455.4
12.5°	6085.8	6139.2	6248.5	6518.0	6833.7	7198.0	7523.4	7742.0	7817.3	7778.4
15°	5660.8	5706.9	5789.5	6066.3	6476.7	7030.4	7564.7	7989.7	8181.5	8159.7
17.5°	5648.6	5668.1	5719.1	5850.2	6165.9	6768.2	7521.0	8232.5	8599.2	8596.8
20°	5862.3	5869.6	5898.8	5925.5	6105.2	6569.0	7409.3	8434.1	9067.9	9067.9
22.5°	6158.6	6153.7	6182.9	6158.6	6246.0	6552.0	7338.8	8611.4	9590.0	9628.9
25°	6603.0	6578.7	6571.4	6515.6	6532.6	6709.9	7416.6	8812.9	10209.3	10289.4
27.5°	7195.6	7156.7	7130.0	7001.3	6957.6	7035.3	7654.5	9055.8	10899.0	11037.4
30°	7967.8	7897.4	7858.5	7635.1	7477.3	7489.4	8014.0	9378.8	11620.2	11843.7
32.5°	9021.8	8912.5	8808.1	8441.4	8152.4	8057.7	8477.8	9825.6	12402.2	12759.2
35°	10202.0	10114.6	10002.9	9437.0	8992.6	8774.1	9104.3	10449.7	13317.7	13883.6
37.5°	11338.5	11263.3	11316.7	10554.1	9981.0	9662.9	9925.2	11287.5	14447.0	15282.4
40°	12513.9	12455.6	12462.9	11734.4	11066.5	10709.6	10920.8	12339.1	15741.4	16945.9
42.5°	13791.3	13747.6	13601.9	12955.9	12205.5	11872.8	12067.1	13553.3	17130.4	18840.1
45°	15221.7	15194.9	15059.0	14318.3	13458.6	13084.6	13346.9	14893.8	18526.8	20622.6
47.5°	16457.8	16479.6	16462.6	15838.5	14947.2	14398.4	14711.7	16292.6	19826.0	22298.2
50°	17052.7	17166.9	17334.4	17140.2	16586.5	16027.9	16088.6	17642.8	21064.6	23869.5
52.5°	16741.9	16958.0	17414.6	17725.4	17939.1	17822.6	17659.8	18983.4	22230.2	25287.7
55°	15583.5	15887.1	16644.7	17395.1	18485.5	19333.1	19546.8	20469.6	23366.8	26535.9
57.5°	13473.2	13966.1	14646.1	16163.9	17999.8	20064.0	21747.0	22531.4	24571.3	27869.1
60°	9854.7	10515.3	11360.4	13618.9	16299.9	19673.1	23619.3	25698.1	26283.4	29595.8
62.5°	6306.7	6714.7	7491.8	9619.2	12700.9	17669.6	24192.4	29656.5	29185.4	32427.4
65°	4317.8	4580.1	5291.6	6486.4	8210.7	13152.6	22657.6	32624.1	33794.6	36915.2
67.5°	3137.6	3336.7	3943.8	4990.5	5349.9	7783.3	17582.1	32488.1	38275.1	41539.0
70°	2287.6	2428.5	2938.5	3943.8	4116.3	4330.0	10651.3	27616.6	38178.0	42767.8
72.5°	1695.1	1792.2	2134.6	3059.9	3331.9	2923.9	5272.2	20071.3	32806.2	38683.1
75°	1226.4	1299.2	1551.8	2341.0	2666.5	2226.9	2630.0	11729.5	22883.5	27211.0
77.5°	937.4	993.2	1158.4	1714.5	2134.6	1670.8	1631.9	5396.1	10850.4	10903.8
80°	752.8	789.3	879.1	1207.0	1636.8	1250.7	1063.7	2178.3	3429.0	2902.0
82.5°	553.7	614.4	743.1	847.5	1170.5	862.1	648.4	1100.1	1304.1	1122.0
85°	315.7	357.0	449.3	607.1	748.0	527.0	371.6	488.1	607.1	497.8
87.5°	111.7	145.7	157.9	238.0	325.4	218.6	143.3	140.9	199.1	148.1
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°
6709.9	0°	6709.9	6709.9	6709.9	6709.9	6709.9	6709.9	6709.9	6709.9	6709.9	6709.9
6782.7	2.5°	6758.4	6746.3	6697.7	6632.2	6564.2	6498.6	6476.7	6430.6	6399.0	6382.0
6940.6	5°	6894.4	6855.6	6741.4	6595.7	6442.7	6277.6	6161.0	6054.2	5976.5	5903.6
7156.7	7.5°	7088.7	7020.7	6824.0	6569.0	6297.0	6022.6	5818.6	5663.2	5558.8	5490.8
7409.3	10°	7314.6	7210.1	6909.0	6527.7	6107.6	5714.2	5473.8	5340.2	5274.6	5238.2
7698.3	12.5°	7574.4	7426.3	6996.4	6433.0	5818.6	5369.4	5204.2	5165.4	5167.8	5170.2
8062.5	15°	7895.0	7688.5	7066.9	6226.6	5442.2	5104.6	5075.5	5138.6	5204.2	5235.8
8475.4	17.5°	8256.8	7965.4	7079.0	5886.6	5073.1	4934.7	5026.9	5162.9	5262.5	5306.2
8936.8	20°	8645.4	8247.1	6991.6	5405.8	4769.5	4796.2	4961.4	5136.2	5245.5	5301.4
9463.8	22.5°	9089.8	8548.2	6782.7	4900.7	4521.8	4645.7	4839.9	5009.9	5124.1	5179.9
10083.0	25°	9597.3	8885.8	6454.9	4475.7	4308.1	4475.7	4670.0	4810.8	4903.1	4954.1
10775.1	27.5°	10160.7	9237.9	6017.8	4138.1	4121.1	4300.8	4461.1	4570.4	4619.0	4657.8
11511.0	30°	10726.6	9558.5	5488.3	3883.1	3958.4	4128.4	4242.5	4291.1	4305.7	4313.0
12331.8	32.5°	11338.5	9835.3	4932.2	3671.8	3803.0	3960.8	4028.8	4050.7	3982.7	3936.6
13327.5	35°	12079.2	10131.6	4388.2	3504.3	3650.0	3786.0	3807.8	3788.4	3708.3	3613.6
14575.7	37.5°	12994.8	10500.7	3953.6	3385.3	3506.7	3596.6	3569.9	3565.0	3572.3	3460.6
16076.5	40°	14116.7	10981.5	3635.4	3293.0	3390.1	3409.6	3334.3	3375.6	3412.0	3242.0
17723.0	42.5°	15362.5	11562.0	3433.9	3229.9	3293.0	3246.9	3130.3	3176.4	3171.6	2948.2
19376.8	45°	16632.6	12193.4	3363.4	3183.7	3203.2	3110.9	2982.2	2994.3	2892.3	2690.7
20962.6	47.5°	17895.4	12870.9	3407.1	3144.9	3091.4	2987.0	2887.5	2834.0	2683.5	2532.9
22482.8	50°	19133.9	13582.4	3567.4	3067.2	2938.5	2877.7	2804.9	2710.2	2549.9	2421.2
23920.4	52.5°	20282.6	14298.8	3747.1	2938.5	2746.6	2783.0	2736.9	2627.6	2469.8	2338.6
25280.4	55°	21370.6	15015.2	3817.6	2761.2	2566.9	2700.5	2673.7	2472.2	2282.8	2175.9
26703.5	57.5°	22555.6	15877.3	3739.8	2535.3	2421.2	2605.8	2503.8	2280.3	2171.1	2090.9
28556.4	60°	24197.3	17230.0	3572.3	2256.1	2282.8	2464.9	2290.0	2197.8	2078.8	1988.9
31334.6	62.5°	26924.5	19753.2	3302.7	1979.2	2120.1	2256.1	2188.1	2095.8	1974.3	1886.9
36084.7	65°	30955.7	23259.9	2795.2	1763.1	1937.9	2052.1	2078.8	1986.5	1860.2	1767.9
40247.1	67.5°	34355.6	25460.1	2115.2	1583.4	1750.9	1886.9	1962.2	1872.4	1738.8	1648.9
41220.9	70°	34168.6	23862.2	1614.9	1406.1	1585.8	1724.2	1821.4	1750.9	1607.6	1522.7
37442.2	72.5°	30348.6	19962.0	1306.5	1226.4	1418.2	1554.2	1670.8	1617.4	1471.7	1389.1
27429.6	75°	22295.8	14170.1	1044.2	1044.2	1209.4	1376.9	1505.7	1471.7	1338.1	1279.8
11515.8	77.5°	9398.2	5944.9	818.4	867.0	1005.4	1182.7	1342.9	1355.1	1238.5	1311.4
3045.3	80°	2498.9	1639.2	624.1	682.4	789.3	976.2	1168.1	1163.2	1037.0	969.0
1131.7	82.5°	952.0	646.0	444.4	480.8	570.7	748.0	925.2	954.4	828.1	716.4
444.4	85°	366.7	276.8	274.4	289.0	332.7	495.4	699.4	723.7	624.1	529.4
123.9	87.5°	94.7	82.6	102.0	97.1	153.0	264.7	400.7	415.3	381.3	221.0
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>
6709.9
6401.5
5932.8
5505.3
5247.9
5175.1
5233.4
5315.9
5315.9
5194.5
4968.7
4672.4
4330.0
3951.1
3618.4
3467.9
3246.9
2945.7
2698.0
2532.9
2411.5
2341.0
2166.2
2083.6
1984.1
1886.9
1772.8
1651.4
1529.9
1389.1
1262.8
1190.0
901.0
716.4
546.4
315.7
0.0

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