

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: P950515

Luminaire Tested: **GALN-SB4D-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950515
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-940-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 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: 22586 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

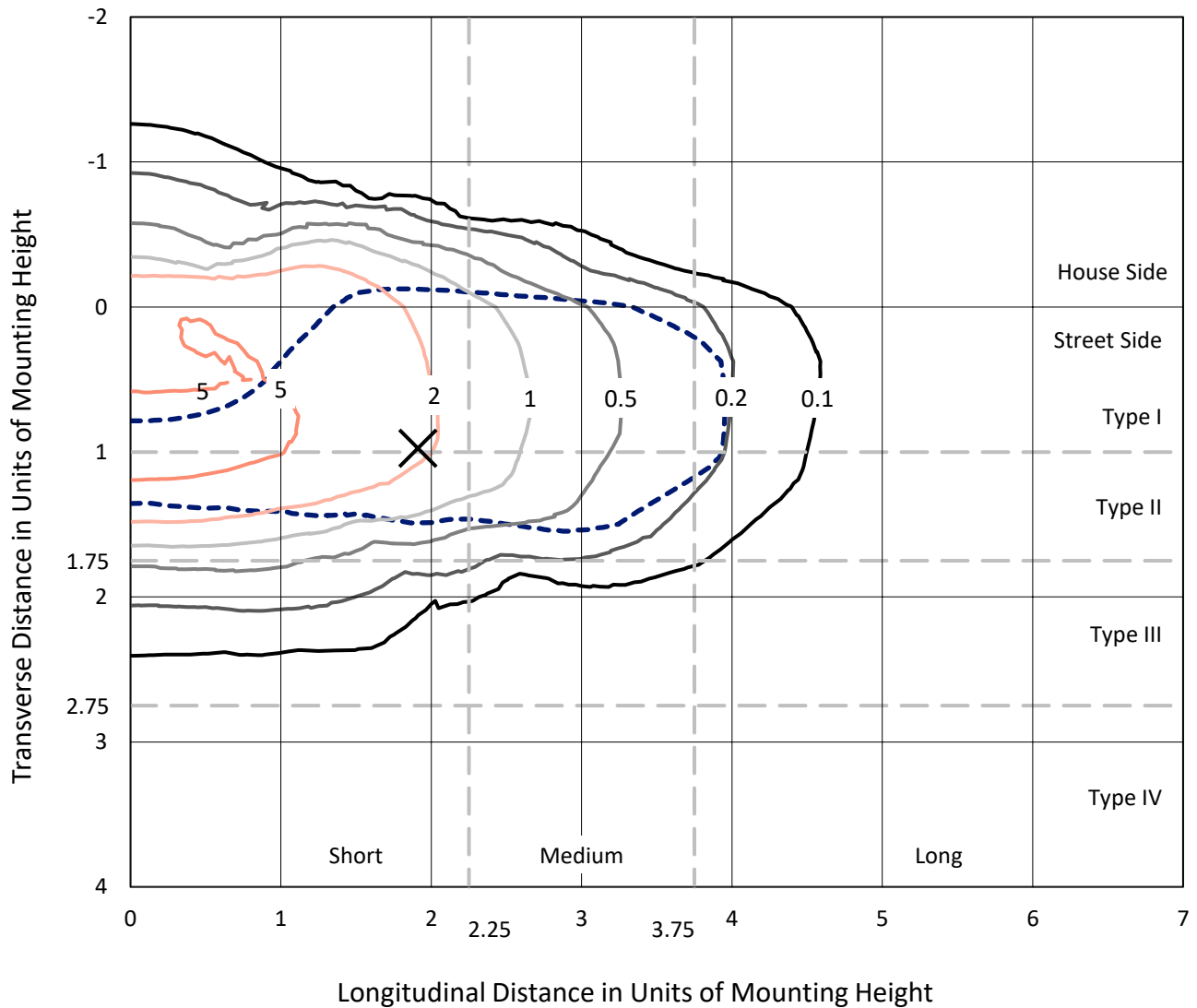
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

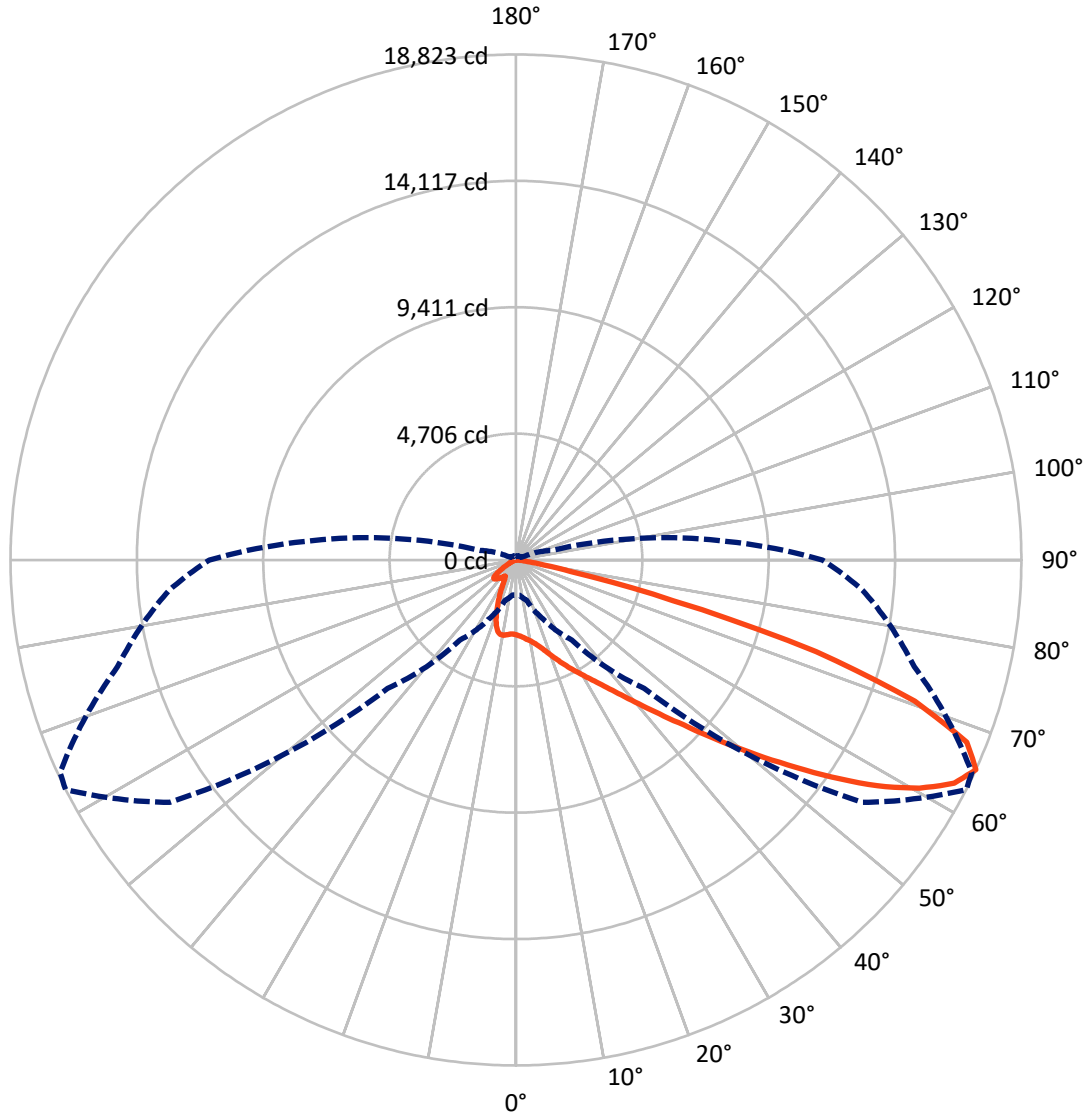
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	3320.0	0.0	3320.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	19266.0	0.0	19266.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	22586.0	0.0	22586.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.6	1.2
10°-20°	728.7	3.2
20°-30°	1268.9	5.6
30°-40°	2287.1	10.1
40°-50°	4536.0	20.1
50°-60°	6178.7	27.4
60°-70°	4931.8	21.8
70°-80°	2231.8	9.9
80°-90°	160.4	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°	22586.0	100.0
0°-180°	22586.0	100.0

Coefficient of Utilization



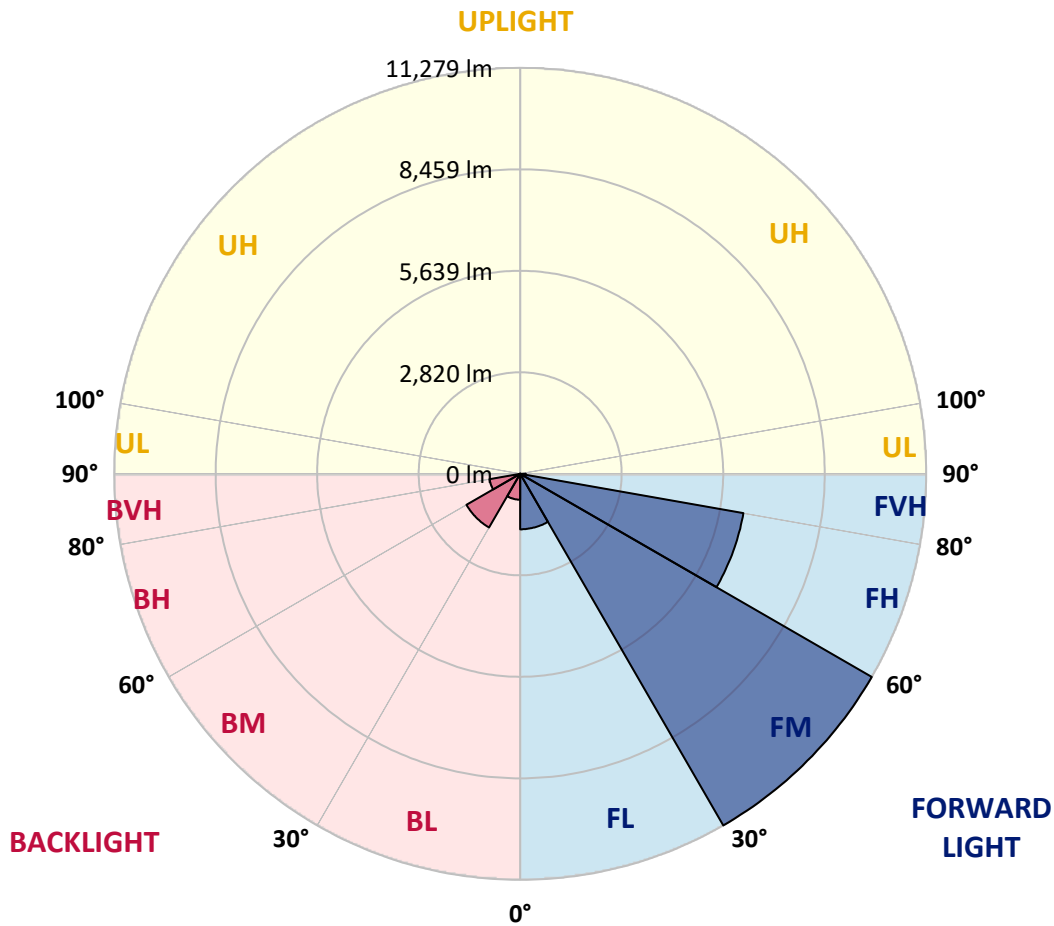
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1541.8	6.8			
FM (30°-60°)	11278.9	49.9			
FH (60°-80°)	6296.9	27.9			G3/7500
FVH (80°-90°)	148.5	0.7			G2/225
BL (0°-30°)	718.5	3.2	B2/1000		
BM (30°-60°)	1722.9	7.6	B2/2500		
BH (60°-80°)	866.7	3.8	B2/1000		G2/1000
BVH (80°-90°)	11.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5
2.5°	2852.8	2845.0	2855.9	2851.2	2848.1	2841.9	2838.8	2835.7	2829.5	2824.8
5°	2860.6	2855.9	2866.8	2876.1	2885.4	2894.8	2899.4	2905.6	2899.4	2887.0
7.5°	2795.3	2792.2	2815.5	2843.5	2885.4	2921.2	2960.0	2981.8	2983.3	2978.7
10°	2790.6	2782.9	2806.2	2840.4	2894.8	2958.5	3026.8	3073.4	3079.7	3099.9
12.5°	2863.7	2855.9	2888.5	2925.8	2981.8	3048.6	3132.5	3197.7	3207.1	3235.0
15°	2986.4	2975.6	3012.8	3061.0	3132.5	3208.6	3297.2	3356.2	3364.0	3398.2
17.5°	3129.4	3118.5	3162.0	3213.3	3291.0	3395.1	3497.6	3562.9	3572.2	3594.0
20°	3312.7	3298.7	3332.9	3379.5	3461.9	3586.2	3708.9	3802.2	3800.6	3800.6
22.5°	3525.6	3503.8	3533.4	3570.7	3648.4	3799.1	3962.2	4072.5	4072.5	4029.0
25°	3754.0	3732.3	3764.9	3799.1	3867.4	4038.4	4229.5	4366.2	4372.4	4297.8
27.5°	4039.9	4011.9	4036.8	4077.2	4117.6	4291.6	4518.5	4677.0	4680.1	4565.1
30°	4590.0	4510.7	4433.0	4389.5	4408.2	4580.6	4823.0	4998.6	5014.2	4855.7
32.5°	5596.8	5581.3	5307.8	4950.4	4764.0	4891.4	5163.3	5374.6	5384.0	5180.4
35°	7161.5	7142.9	6703.1	6022.6	5415.0	5307.8	5576.6	5826.8	5820.6	5590.6
37.5°	9029.2	9012.1	8432.5	7522.0	6538.4	5937.1	6109.6	6372.2	6411.0	6109.6
40°	10625.0	10561.3	10194.6	9316.7	8030.1	6981.3	6867.9	7041.9	7082.3	6724.9
42.5°	11833.8	11779.5	11593.0	11044.5	9835.6	8525.8	7761.3	7828.1	7873.2	7444.3
45°	12460.0	12447.6	12522.2	12470.9	11675.3	10421.4	9038.5	8760.4	8777.5	8241.4
47.5°	12548.6	12542.4	12882.7	13364.3	13257.1	12559.5	10677.8	9922.6	9862.0	9141.1
50°	12026.5	12014.1	12666.7	13569.4	14313.7	14355.7	12539.3	11232.5	11098.9	10071.8
52.5°	10359.3	10356.2	11428.3	12930.8	14685.1	15928.1	14379.0	12671.3	12447.6	11056.9
55°	7971.1	8028.5	9257.6	11033.6	14007.6	16684.8	16030.7	14268.7	13925.3	12048.3
57.5°	5646.6	5730.5	6945.5	8527.3	11906.9	16237.3	17147.9	15869.1	15499.3	13036.5
60°	3033.0	3107.6	4324.3	6212.1	8858.3	14568.5	17736.8	17258.2	16908.6	13975.0
62.5°	1807.1	1831.9	2335.4	4010.4	5991.5	11130.0	17486.6	18316.3	18028.9	14762.8
65°	1297.4	1302.1	1555.4	2448.8	3637.5	6762.2	15732.3	18822.9	18734.3	15356.3
67.5°	1092.3	1089.2	1194.9	1626.8	2478.3	3387.3	12057.6	18106.6	18482.6	15732.3
70°	936.9	941.6	1065.9	1191.8	1863.0	1917.4	5994.6	15765.0	16566.7	15831.8
72.5°	697.7	713.2	828.2	1086.1	1406.2	1319.2	2069.7	11689.3	13139.0	14916.6
75°	492.6	500.3	582.7	913.6	1048.8	960.3	1056.6	6042.8	7901.1	11436.1
77.5°	379.1	393.1	441.3	638.6	1033.3	674.4	646.4	2091.4	3213.3	6908.2
80°	205.1	230.0	318.5	461.5	725.6	477.0	320.1	832.8	1089.2	3230.4
82.5°	105.7	118.1	222.2	332.5	413.3	416.4	158.5	346.5	449.1	997.5
85°	42.0	51.3	149.2	183.3	212.9	205.1	71.5	139.8	161.6	276.6
87.5°	9.3	15.5	54.4	42.0	40.4	43.5	17.1	32.6	31.1	32.6
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°
2787.5	0°	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5	2787.5
2806.2	2.5°	2804.6	2798.4	2781.3	2762.7	2740.9	2728.5	2720.7	2719.2	2708.3	2700.5
2868.3	5°	2851.2	2845.0	2812.4	2773.6	2731.6	2699.0	2667.9	2639.9	2599.5	2591.8
2958.5	7.5°	2944.5	2927.4	2874.6	2821.7	2742.5	2647.7	2532.7	2400.6	2282.6	2246.8
3078.1	10°	3059.5	3036.1	2969.3	2876.1	2700.5	2442.6	2164.5	1906.5	1701.4	1643.9
3219.5	12.5°	3190.0	3169.8	3081.2	2908.7	2524.9	2057.2	1631.5	1311.4	1112.5	1062.8
3370.2	15°	3345.4	3315.8	3193.1	2859.0	2211.1	1563.1	1120.3	930.7	859.3	849.9
3542.7	17.5°	3510.1	3461.9	3292.5	2680.3	1788.4	1111.0	865.5	811.1	780.0	770.7
3716.7	20°	3660.8	3598.6	3351.6	2410.0	1336.3	865.5	775.4	739.6	711.6	700.8
3890.7	22.5°	3811.5	3722.9	3351.6	2041.7	1002.2	767.6	711.6	679.0	646.4	632.4
4077.2	25°	3968.4	3850.3	3292.5	1631.5	806.4	703.9	651.0	615.3	587.3	570.2
4254.3	27.5°	4120.7	3957.6	3157.3	1243.0	717.9	647.9	595.1	560.9	534.5	522.1
4447.0	30°	4265.2	4063.2	2967.8	943.2	660.4	593.6	543.8	514.3	487.9	475.5
4697.2	32.5°	4461.0	4196.8	2765.8	773.8	610.6	542.3	497.2	469.3	445.9	436.6
5021.9	35°	4732.9	4394.2	2591.8	759.8	568.7	500.3	455.3	428.9	405.5	397.8
5441.5	37.5°	5118.3	4712.7	2500.1	853.0	534.5	463.0	421.1	393.1	371.4	365.1
5974.4	40°	5593.7	5144.7	2549.8	946.3	511.2	430.4	390.0	362.0	343.4	335.6
6586.6	42.5°	6157.8	5677.6	2824.8	1017.7	495.7	402.4	360.5	329.4	317.0	313.9
7281.2	45°	6805.7	6263.4	3245.9	1093.9	470.8	376.0	331.0	307.7	298.3	296.8
8036.3	47.5°	7542.2	6906.7	3733.8	1188.7	445.9	351.2	307.7	292.1	284.3	281.2
8824.1	50°	8272.5	7554.6	4235.7	1241.5	425.7	327.9	289.0	276.6	270.4	268.8
9656.9	52.5°	9037.0	8221.2	4641.2	1191.8	408.7	309.2	273.5	264.1	257.9	256.4
10424.5	55°	9765.7	8760.4	4711.2	1011.5	374.5	290.6	256.4	251.7	243.9	243.9
11203.0	57.5°	10393.5	9030.8	4217.0	742.7	340.3	262.6	239.3	234.6	228.4	226.9
11905.3	60°	10969.9	8953.1	3255.2	500.3	303.0	234.6	217.5	214.4	208.2	200.4
12516.0	62.5°	11294.7	8611.2	2226.6	326.3	265.7	205.1	192.7	191.1	177.1	161.6
12968.1	65°	11417.4	7908.9	1389.1	237.7	222.2	175.6	166.3	163.2	143.0	125.9
13224.5	67.5°	11310.2	6752.9	700.8	188.0	175.6	146.1	136.7	136.7	122.8	107.2
13209.0	70°	10881.3	5062.3	295.2	150.7	135.2	111.9	111.9	118.1	104.1	87.0
12523.7	72.5°	9950.6	3406.0	156.9	115.0	101.0	79.2	91.7	96.3	82.4	65.3
10250.5	75°	7910.5	2077.4	108.8	85.5	63.7	55.9	69.9	73.0	55.9	43.5
7027.9	77.5°	5410.4	1193.3	73.0	54.4	40.4	32.6	48.2	45.1	29.5	20.2
2709.8	80°	2375.8	497.2	42.0	24.9	15.5	12.4	17.1	12.4	9.3	6.2
371.4	82.5°	278.1	116.5	15.5	9.3	6.2	3.1	1.6	0.0	0.0	0.0
113.4	85°	57.5	14.0	7.8	3.1	1.6	0.0	0.0	0.0	0.0	0.0
20.2	87.5°	10.9	3.1	1.6	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

180°
2787.5
2708.3
2588.7
2229.7
1622.2
1048.8
840.6
766.0
694.6
624.6
564.0
522.1
477.0
436.6
397.8
363.6
334.1
313.9
295.2
281.2
268.8
256.4
242.4
225.3
198.9
158.5
124.3
105.7
85.5
65.3
42.0
21.8
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