

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: P956819

Luminaire Tested: **GALN-SB9B-835-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36645 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

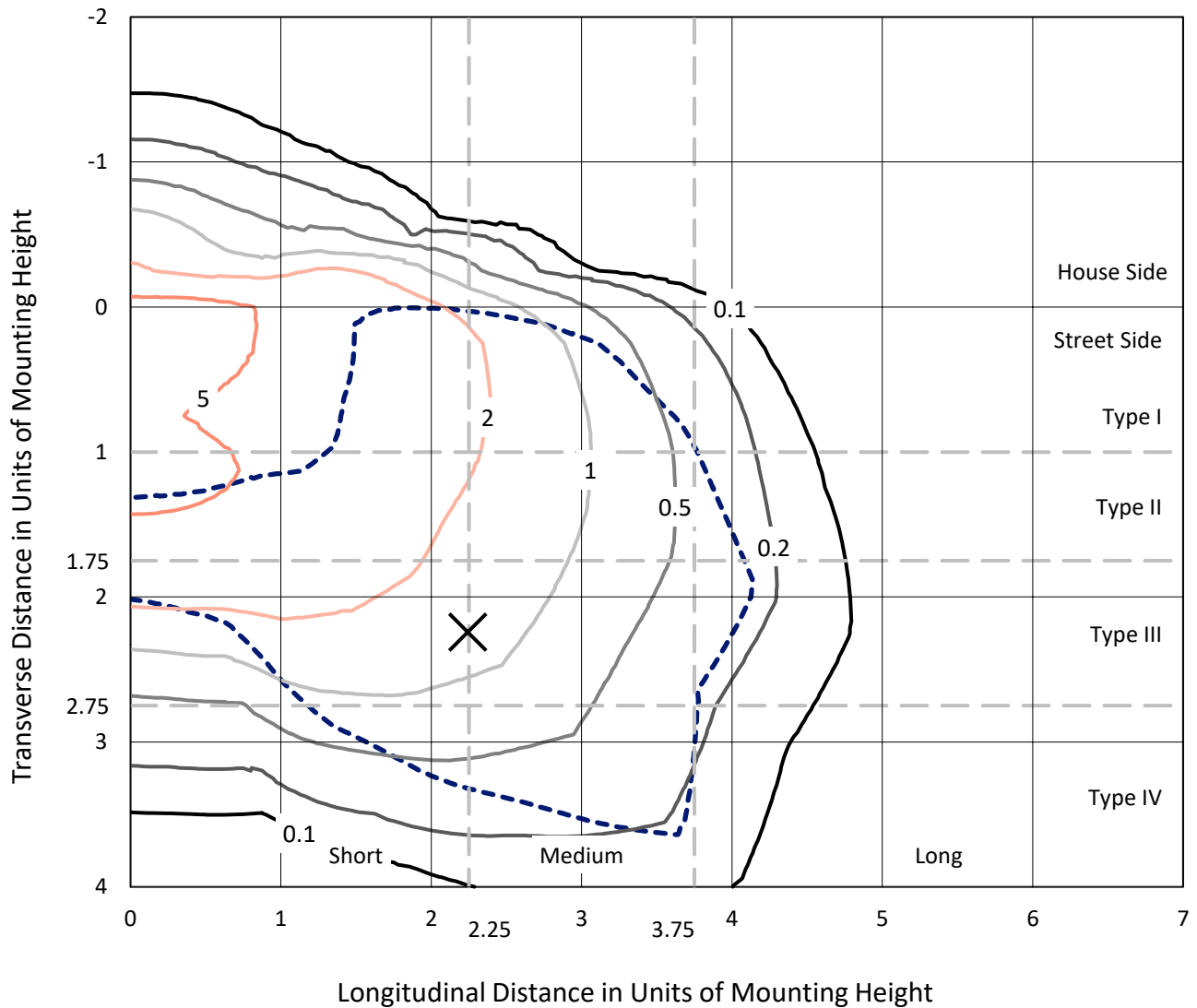
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

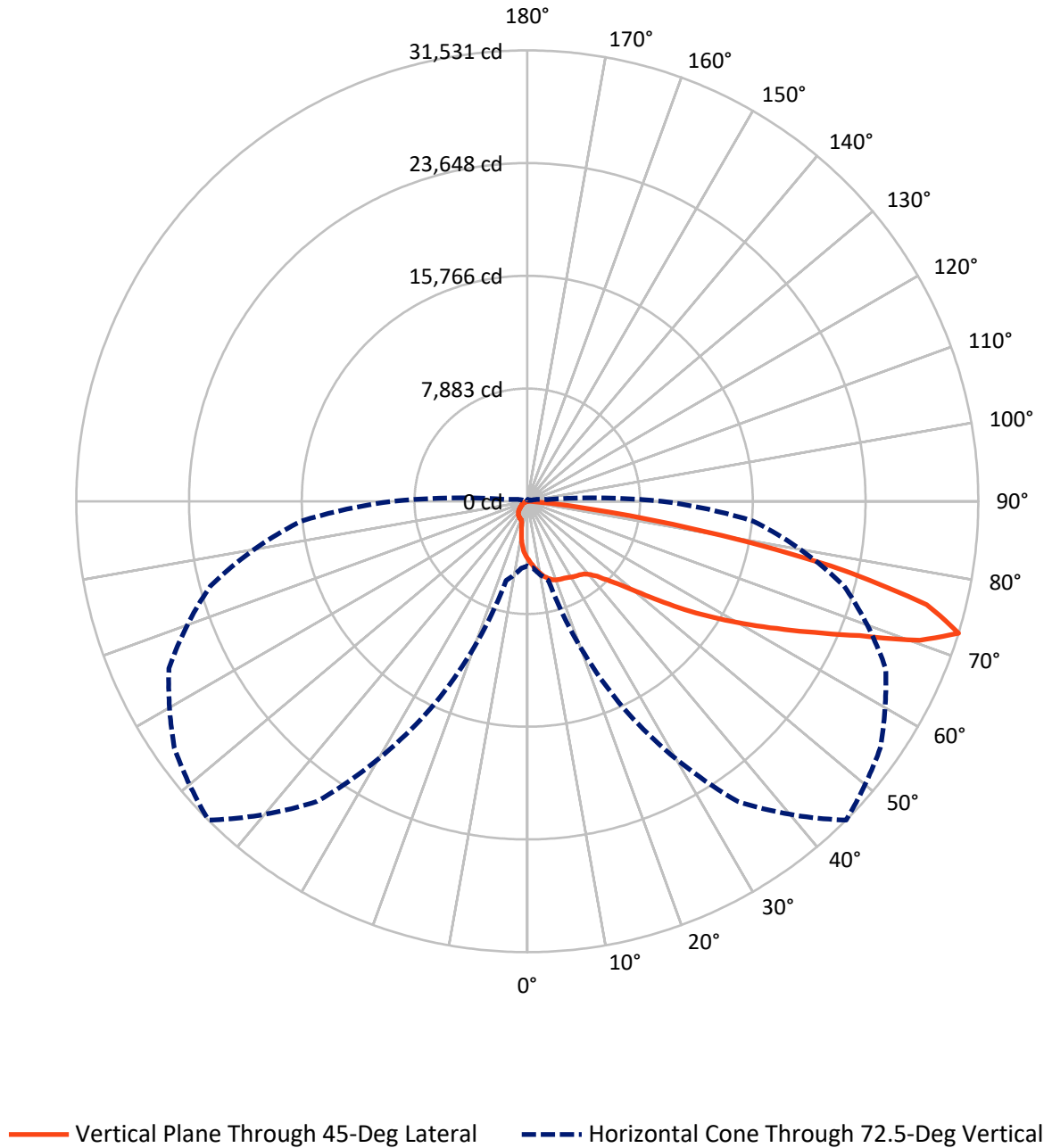
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3850.4	0.0	3850.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	32794.6	0.0	32794.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	36645.0	0.0	36645.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.2	1.0
10°-20°	1105.5	3.0
20°-30°	1815.3	5.0
30°-40°	2574.6	7.0
40°-50°	4255.5	11.6
50°-60°	7644.6	20.9
60°-70°	10614.9	29.0
70°-80°	7699.7	21.0
80°-90°	556.7	1.5
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°	36645.0	100.0
0°-180°	36645.0	100.0

Coefficient of Utilization



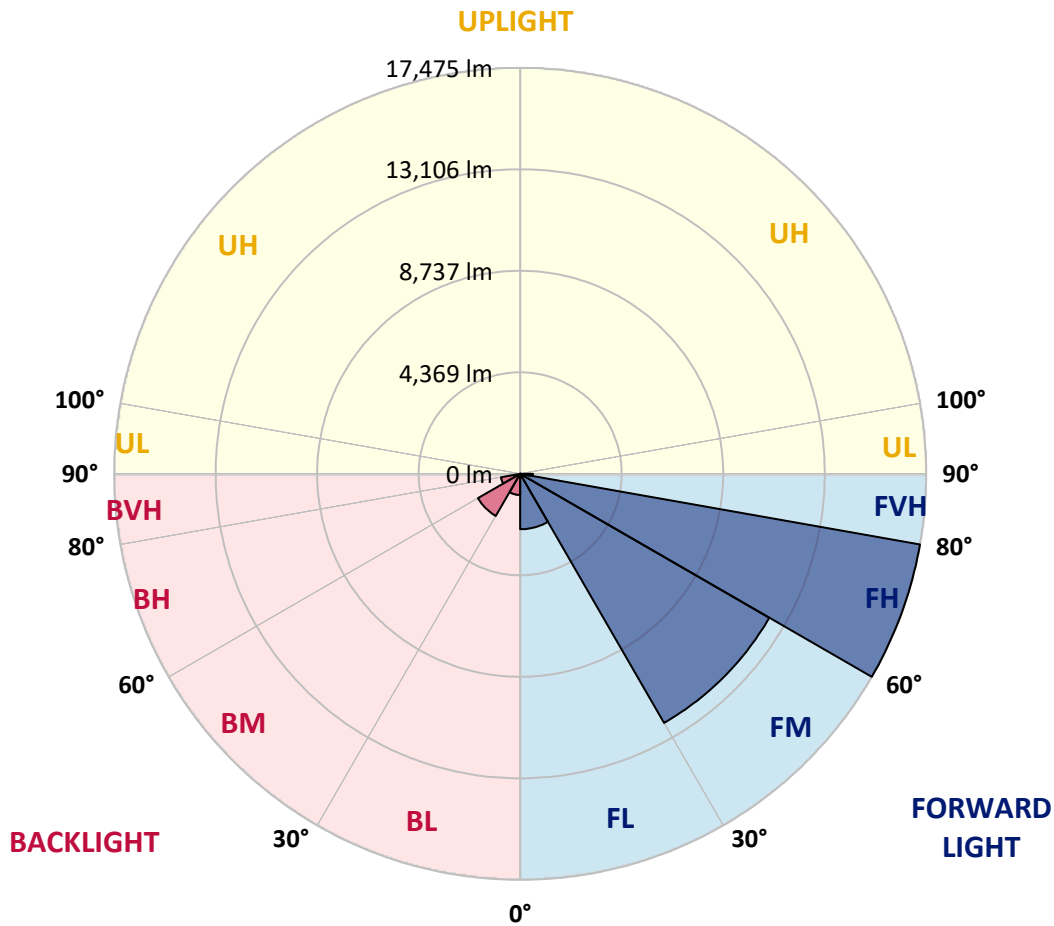
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2387.1	6.5			
FM (30°-60°)	12380.6	33.8			
FH (60°-80°)	17475.0	47.7			G5
FVH (80°-90°)	552.0	1.5			G4/750
BL (0°-30°)	912.0	2.5	B2/1000		
BM (30°-60°)	2094.1	5.7	B2/2500		
BH (60°-80°)	839.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.7	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4014.5	4014.5	4014.5	4014.5	4014.5	4014.5	4014.5	4014.5	4014.5	4014.5
2.5°	4384.7	4392.2	4387.2	4357.2	4307.2	4279.7	4264.7	4214.6	4182.1	4124.6
5°	4787.4	4817.4	4799.9	4739.9	4644.9	4577.3	4557.3	4454.8	4362.2	4254.7
7.5°	5215.1	5230.2	5197.6	5120.1	4992.5	4877.5	4860.0	4717.4	4569.8	4404.7
10°	5585.3	5602.8	5552.8	5440.3	5295.2	5152.6	5127.6	4970.0	4794.9	4592.3
12.5°	5895.5	5913.0	5848.0	5712.9	5552.8	5405.2	5380.2	5215.1	5022.5	4797.4
15°	6130.6	6163.1	6075.6	5930.5	5757.9	5610.3	5597.8	5435.3	5247.7	4997.5
17.5°	6268.2	6300.7	6218.2	6043.1	5895.5	5770.4	5755.4	5620.4	5445.3	5205.1
20°	6290.7	6320.7	6233.2	6080.6	5958.0	5858.0	5850.5	5752.9	5625.4	5395.2
22.5°	6223.2	6260.7	6180.6	6058.1	5973.0	5920.5	5910.5	5855.5	5782.9	5587.8
25°	6153.1	6183.1	6123.1	6015.6	5970.5	5965.5	5973.0	5963.0	5948.0	5782.9
27.5°	6148.1	6180.6	6113.1	6010.6	5985.5	6038.1	6045.6	6093.1	6105.6	5960.5
30°	6190.6	6213.2	6148.1	6040.6	6028.1	6148.1	6150.6	6235.7	6255.7	6110.6
32.5°	6283.2	6308.2	6243.2	6085.6	6068.1	6235.7	6243.2	6355.7	6388.2	6270.7
35°	6500.8	6530.8	6455.8	6210.7	6148.1	6318.2	6340.7	6473.3	6538.3	6440.8
37.5°	7043.6	6956.0	6853.5	6463.3	6330.7	6448.3	6485.8	6640.9	6755.9	6643.4
40°	8391.8	8116.6	7796.5	6893.5	6650.9	6725.9	6755.9	6911.0	7068.6	6958.5
42.5°	10415.3	10090.1	9574.9	7884.0	7133.6	7171.1	7193.7	7328.7	7551.3	7463.8
45°	12218.7	12101.1	11575.9	9574.9	8036.6	7851.5	7879.0	7949.0	8276.7	8244.2
47.5°	13604.4	13536.9	13131.7	11515.8	9562.4	8684.4	8761.9	8794.5	9267.2	9382.3
50°	14669.9	14644.9	14282.2	13241.7	11555.9	9912.5	9940.0	9870.0	10577.9	10863.0
52.5°	15675.5	15760.5	15492.9	14845.0	13684.4	11520.8	11515.8	11185.7	12141.2	12571.4
55°	16583.4	16613.4	16640.9	16480.9	15825.5	13351.8	13304.3	12764.0	13954.6	14399.8
57.5°	17436.4	17448.9	17694.0	18021.6	18054.2	15317.8	15230.2	14582.4	15935.6	16253.2
60°	18009.1	18066.7	18584.4	19494.9	19892.6	17346.3	17298.8	16638.4	17951.6	18099.2
62.5°	17183.7	17533.9	18839.6	20645.5	21628.5	19594.9	19572.4	18952.1	20072.7	19952.6
65°	13909.6	14502.4	16798.5	21423.4	23331.8	22106.2	22138.7	21478.4	22251.3	21861.1
67.5°	9729.9	10355.3	13071.6	21485.9	25235.3	25055.2	25242.8	24207.3	24565.0	23689.5
70°	6728.4	7051.1	8819.5	20140.2	26718.6	29117.3	29112.3	27559.0	26866.1	24522.4
72.5°	4524.8	4692.4	5727.9	15978.1	25628.0	31531.0	31385.9	30120.3	27641.5	22934.1
75°	1908.5	2031.0	2651.3	8979.6	20275.3	28847.1	28454.4	26618.5	24560.0	18059.2
77.5°	605.3	657.8	1045.5	3214.1	11168.2	21683.5	21268.3	16623.4	16460.9	9059.6
80°	287.6	335.2	587.8	1290.7	4394.7	11793.5	11736.0	7541.3	7081.1	2446.2
82.5°	125.1	147.6	325.2	690.4	1966.0	4207.1	4292.2	2566.3	2123.6	928.0
85°	40.0	52.5	150.1	317.7	830.4	1045.5	1033.0	610.3	855.4	505.3
87.5°	0.0	0.0	50.0	72.5	85.0	60.0	67.5	52.5	237.6	140.1
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°
4014.5	0°	4014.5	4014.5	4014.5	4014.5	4014.5	4014.5	4014.5	4014.5	4014.5	4014.5
4064.6	2.5°	4034.5	3994.5	3924.5	3859.5	3801.9	3744.4	3709.4	3659.4	3654.4	3654.4
4129.6	5°	4062.1	3997.0	3872.0	3739.4	3586.8	3441.7	3296.7	3156.6	3111.6	3079.1
4234.6	7.5°	4142.1	4039.6	3842.0	3589.3	3299.2	2981.5	2758.9	2518.8	2426.2	2376.2
4374.7	10°	4257.2	4117.1	3816.9	3374.2	2904.0	2471.3	2153.6	1893.5	1793.4	1750.9
4527.3	12.5°	4384.7	4212.1	3771.9	3106.6	2471.3	1953.5	1643.3	1523.3	1508.3	1508.3
4709.9	15°	4537.3	4327.2	3694.4	2791.4	2018.5	1545.8	1435.7	1440.7	1455.7	1465.7
4887.5	17.5°	4694.9	4449.8	3571.8	2438.7	1618.3	1390.7	1393.2	1400.7	1413.2	1423.2
5080.1	20°	4865.0	4572.3	3409.2	2063.5	1388.2	1345.7	1353.2	1360.7	1370.7	1375.7
5260.2	22.5°	5047.6	4687.4	3216.6	1695.9	1310.7	1308.2	1310.7	1318.2	1330.7	1330.7
5470.3	25°	5242.7	4814.9	2996.5	1428.2	1270.6	1270.6	1275.6	1280.7	1290.7	1290.7
5672.9	27.5°	5442.8	4932.5	2763.9	1288.2	1235.6	1233.1	1233.1	1240.6	1245.6	1248.1
5873.0	30°	5662.9	5070.1	2531.3	1258.1	1208.1	1195.6	1188.1	1193.1	1198.1	1200.6
6083.1	32.5°	5888.0	5202.6	2323.7	1270.6	1180.6	1158.1	1133.1	1128.1	1128.1	1138.1
6300.7	35°	6138.1	5347.7	2163.6	1313.2	1165.6	1103.1	1063.0	1040.5	1043.0	1058.0
6560.8	37.5°	6438.3	5522.8	2046.0	1350.7	1155.6	1040.5	975.5	948.0	930.5	948.0
6918.5	40°	6831.0	5780.4	1961.0	1380.7	1143.1	968.0	880.4	835.4	802.9	812.9
7473.8	42.5°	7408.8	6185.6	1928.5	1383.2	1115.6	882.9	782.9	722.9	675.3	677.8
8309.2	45°	8219.2	6826.0	2096.1	1350.7	1055.5	790.4	680.3	600.3	570.3	562.8
9557.4	47.5°	9329.7	7758.9	2483.8	1283.2	968.0	700.4	580.3	512.8	490.2	477.7
11195.7	50°	10818.0	8957.0	2914.0	1208.1	880.4	615.3	497.8	455.2	440.2	427.7
13139.2	52.5°	12543.9	10172.7	3266.7	1133.1	792.9	540.3	445.2	420.2	407.7	397.7
15015.1	55°	14127.2	11010.6	3246.6	1053.0	707.9	480.2	407.7	392.7	377.7	367.7
16630.9	57.5°	15112.7	11128.1	2676.4	965.5	610.3	432.7	372.7	362.7	345.2	332.7
18029.2	60°	15565.4	10457.8	1876.0	850.4	512.8	387.7	335.2	330.2	307.7	290.1
19352.3	62.5°	15647.9	9212.2	1250.6	707.9	427.7	345.2	297.7	290.1	260.1	230.1
20427.9	65°	15312.8	7431.3	865.4	552.8	365.2	300.2	255.1	240.1	207.6	177.6
20683.0	67.5°	14252.2	5217.6	602.8	397.7	310.2	237.6	202.6	197.6	172.6	147.6
19382.3	70°	12308.7	2974.0	402.7	297.7	245.1	162.6	160.1	165.1	140.1	120.1
15835.5	72.5°	9437.3	1360.7	250.1	217.6	167.6	110.1	127.6	130.1	107.6	90.0
9880.0	75°	5555.3	582.8	157.6	140.1	85.0	72.5	92.5	95.0	72.5	57.5
3611.8	77.5°	1891.0	220.1	100.1	82.5	42.5	40.0	60.0	60.0	40.0	22.5
725.4	80°	430.2	82.5	50.0	32.5	20.0	17.5	20.0	17.5	10.0	2.5
222.6	82.5°	122.6	32.5	20.0	12.5	7.5	7.5	2.5	0.0	0.0	0.0
77.5	85°	35.0	15.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5	87.5°	15.0	2.5	0.0	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>
4014.5
3666.9
3094.1
2383.7
1750.9
1508.3
1465.7
1423.2
1378.2
1335.7
1293.2
1250.6
1205.6
1145.6
1065.5
943.0
807.9
667.8
552.8
470.2
425.2
395.2
362.7
330.2
285.1
215.1
167.6
140.1
110.1
80.0
50.0
17.5
0.0
0.0
0.0
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