

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: P948917

Luminaire Tested: **GALN-SB3D-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3D-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22479 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

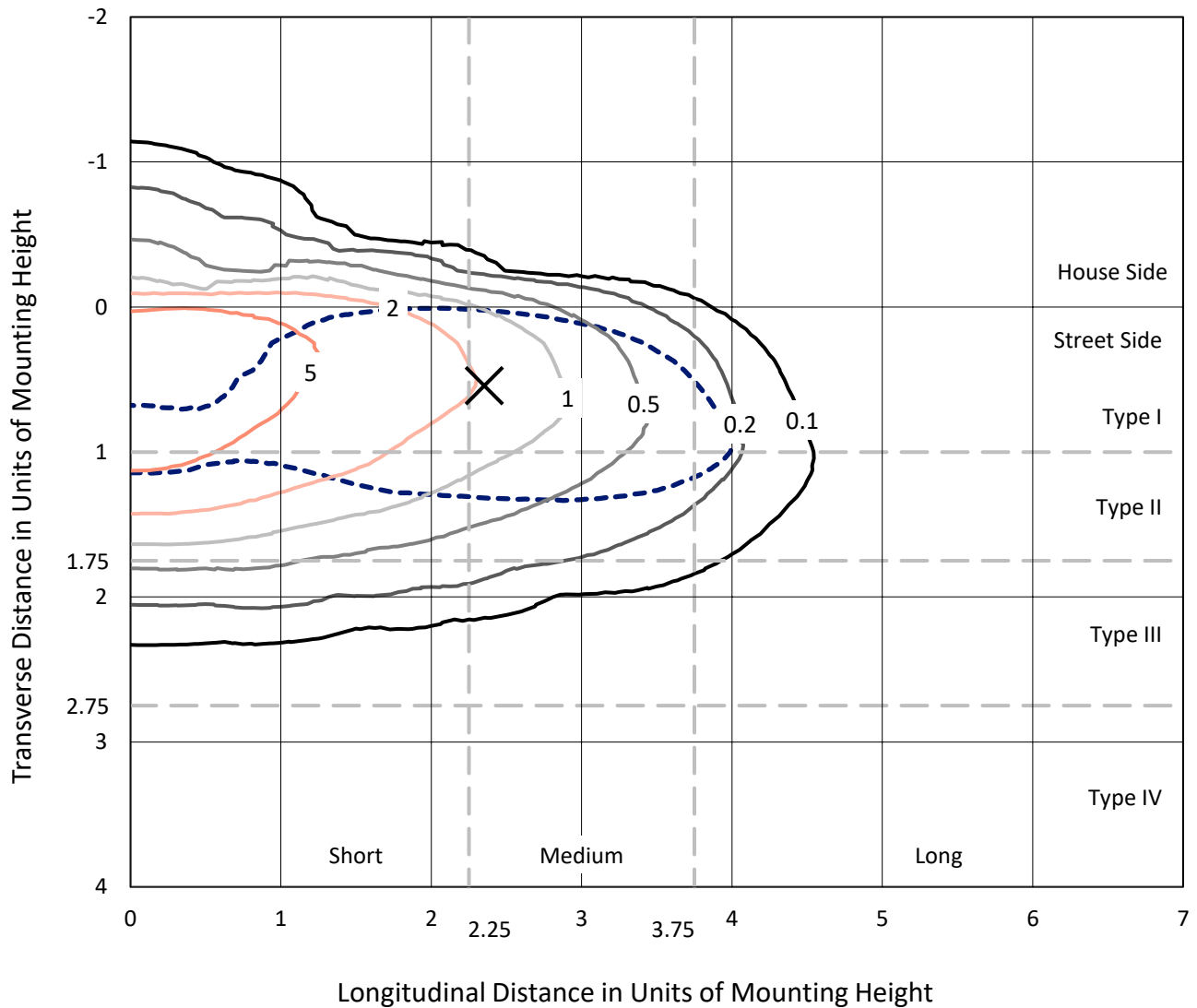
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

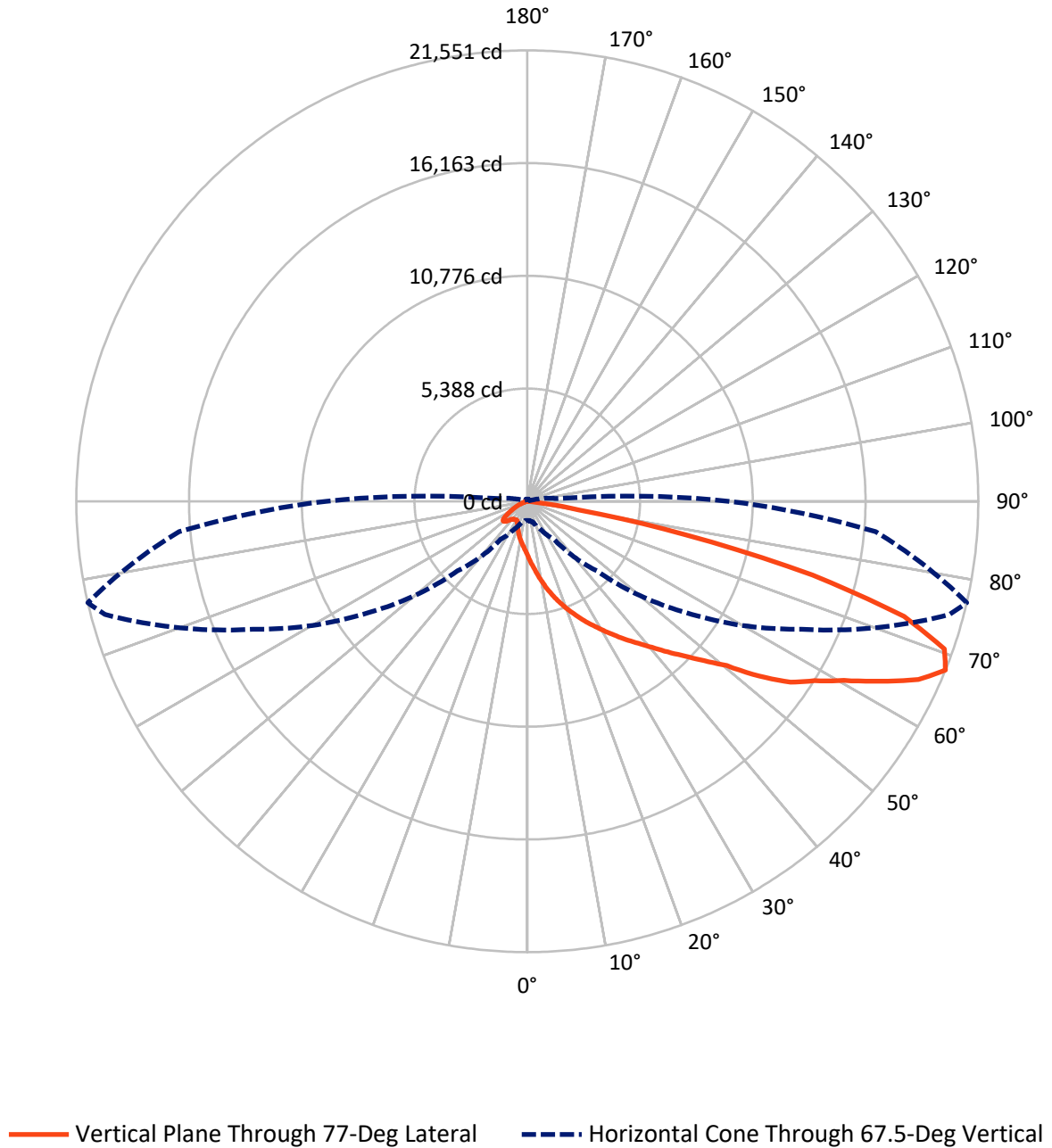
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1653.8	0.0	1653.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	20825.2	0.0	20825.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	22479.0	0.0	22479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.6	1.2
10°-20°	926.5	4.1
20°-30°	1787.9	8.0
30°-40°	3103.9	13.8
40°-50°	4506.7	20.0
50°-60°	5175.3	23.0
60°-70°	4493.2	20.0
70°-80°	2116.3	9.4
80°-90°	104.7	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°	22479.0	100.0
0°-180°	22479.0	100.0

Coefficient of Utilization



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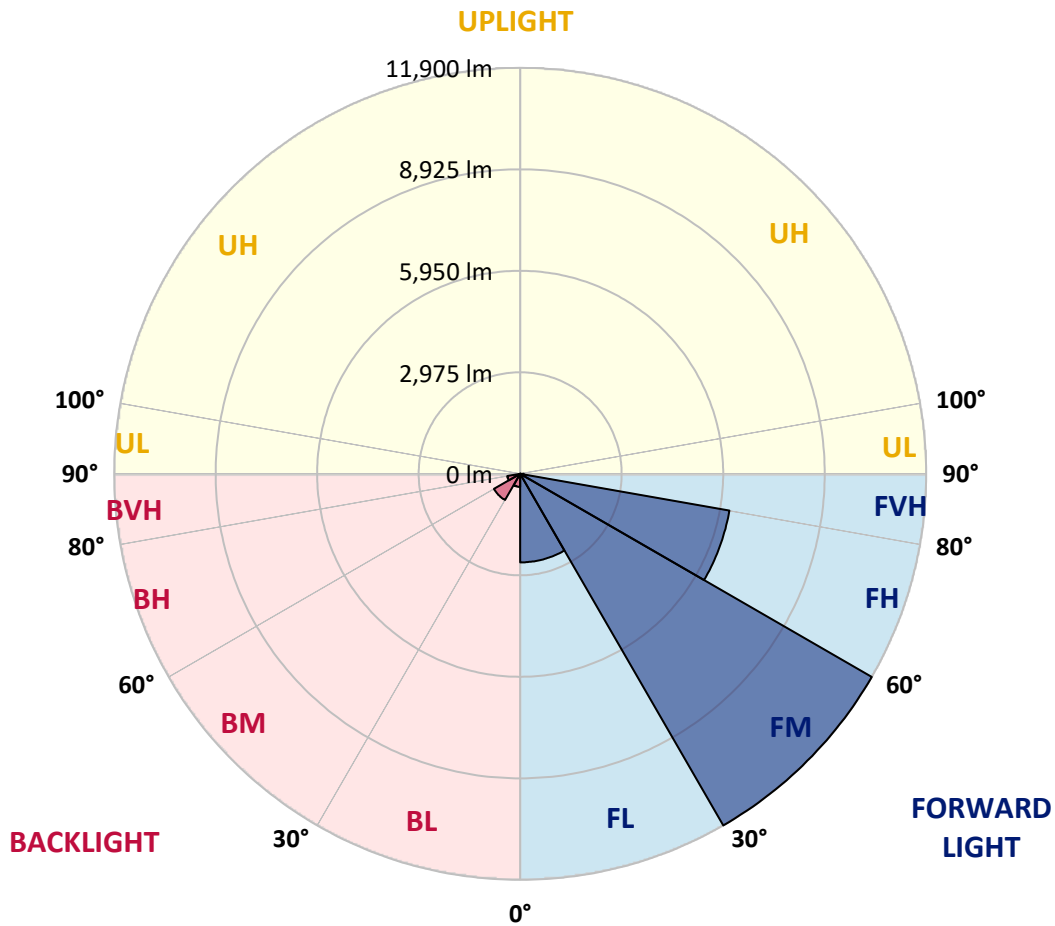
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2596.1	11.5			
FM (30°-60°)	11899.8	52.9			
FH (60°-80°)	6226.6	27.7			G3/7500
FVH (80°-90°)	102.7	0.5			G2/225
BL (0°-30°)	382.9	1.7	B1/500		
BM (30°-60°)	886.1	3.9	B1/1000		
BH (60°-80°)	382.9	1.7	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2
2.5°	3588.8	3611.2	3579.1	3517.6	3425.5	3365.5	3218.9	3080.7	2927.2	2878.3
5°	4374.7	4394.2	4358.0	4291.0	4168.1	4050.9	3858.2	3569.3	3269.2	3172.8
7.5°	4956.8	4968.0	4954.0	4892.6	4775.3	4642.7	4427.7	4085.8	3640.5	3534.4
10°	5375.6	5411.8	5407.7	5383.9	5305.8	5198.3	4969.4	4579.9	4056.4	3919.6
12.5°	5653.3	5693.8	5717.5	5770.6	5766.4	5698.0	5497.0	5085.2	4471.0	4310.5
15°	5734.3	5777.6	5868.3	5991.1	6100.0	6134.9	5993.9	5580.7	4927.5	4722.3
17.5°	5688.2	5755.2	5864.1	6058.1	6296.8	6454.6	6439.2	6059.5	5342.1	5107.5
20°	5790.1	5854.3	5939.5	6102.8	6380.6	6666.7	6781.2	6517.4	5753.8	5508.2
22.5°	6354.1	6342.9	6351.3	6377.8	6543.9	6827.3	7063.2	6933.4	6161.4	5910.2
25°	7247.4	7197.2	7112.0	6968.3	6926.4	7063.2	7308.9	7301.9	6591.4	6322.0
27.5°	8272.0	8263.6	8064.0	7717.9	7522.4	7469.4	7586.6	7660.6	7017.1	6729.6
30°	9253.3	9275.7	9006.3	8621.0	8262.2	8054.3	7948.2	8001.2	7449.8	7169.3
32.5°	10107.6	10131.3	9838.2	9387.3	8943.4	8692.2	8468.8	8337.6	7921.6	7616.0
35°	10829.3	10853.0	10516.6	10018.3	9545.1	9317.5	9064.9	8706.1	8396.3	8111.5
37.5°	11474.2	11467.2	11016.3	10513.8	10049.0	9868.9	9736.3	9159.8	8884.8	8609.8
40°	11855.3	11884.6	11499.3	10945.1	10494.3	10363.1	10354.7	9722.3	9448.7	9182.1
42.5°	11966.9	12018.6	11739.4	11284.3	10875.3	10733.0	10952.1	10330.9	10104.8	9845.2
45°	11765.9	11816.2	11689.1	11373.7	11135.0	11042.8	11465.8	10961.9	10805.5	10548.7
47.5°	11179.6	11242.5	11273.2	11206.2	11203.4	11296.9	11926.4	11626.3	11637.5	11375.1
50°	10044.8	10150.9	10432.8	10670.1	11037.3	11497.9	12374.5	12346.6	12575.5	12349.4
52.5°	7981.7	8132.4	9104.0	9753.1	10578.0	11460.2	12867.3	13502.4	14221.3	13890.5
55°	6414.1	6414.1	7204.2	8418.6	9681.9	11211.8	13082.2	14253.4	15342.2	15264.0
57.5°	5229.0	5291.8	5795.7	6869.2	8385.1	10619.9	13214.8	14725.2	16245.3	16188.1
60°	3227.3	3362.7	4314.7	5374.2	6909.6	9566.0	13131.1	15202.6	17341.1	17387.1
62.5°	1817.4	1867.7	2292.0	3866.6	5372.8	8149.2	12490.4	15469.2	18742.6	18938.0
65°	1254.9	1280.0	1443.3	2406.5	3724.2	6488.1	11238.3	15303.1	20146.8	20541.8
67.5°	911.5	924.1	1026.0	1469.9	2209.7	4704.1	9275.7	14465.6	20890.8	21551.1
70°	700.7	709.1	783.1	966.0	1305.2	2903.4	6736.5	12800.3	20352.0	21140.7
72.5°	569.5	577.9	635.1	714.7	865.4	1716.9	4083.0	10395.2	17973.4	18824.9
75°	480.2	491.4	543.0	594.6	678.4	1102.7	1915.2	7239.1	13516.4	14074.7
77.5°	266.6	245.7	441.1	492.7	572.3	697.9	896.2	4260.2	7569.9	7724.8
80°	166.1	171.7	350.4	396.4	439.7	351.8	410.4	1640.2	2624.3	2493.1
82.5°	9.8	22.3	269.4	286.2	301.5	150.8	154.9	557.0	632.3	580.7
85°	0.0	0.0	122.8	99.1	104.7	43.3	44.7	129.8	85.1	92.1
87.5°	0.0	0.0	0.0	2.8	0.0	4.2	8.4	11.2	4.2	5.6
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°
2592.2	0°	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2
2724.8	2.5°	2627.1	2529.3	2331.1	2137.1	1979.4	1832.8	1728.1	1629.0	1578.7	1576.0
2900.6	5°	2706.6	2501.4	2105.0	1754.6	1472.7	1246.5	1100.0	995.3	942.2	924.1
3117.0	7.5°	2818.3	2509.8	1906.8	1419.6	1087.4	893.4	809.6	776.1	764.9	752.4
3361.3	10°	2959.3	2529.3	1729.5	1143.2	857.1	759.4	725.9	711.9	703.5	695.2
3636.3	12.5°	3117.0	2547.5	1553.6	949.2	753.8	703.5	679.8	663.0	651.9	642.1
3918.3	15°	3270.6	2558.7	1370.8	813.8	700.7	660.3	635.1	617.0	601.6	590.5
4194.6	17.5°	3422.7	2574.0	1199.1	732.8	657.5	617.0	591.9	569.5	557.0	544.4
4485.0	20°	3591.6	2571.2	1037.1	675.6	614.2	573.7	547.2	526.2	513.7	499.7
4792.1	22.5°	3748.0	2557.3	894.8	626.8	569.5	530.4	501.1	480.2	467.6	456.5
5106.1	25°	3928.0	2546.1	776.1	582.1	527.6	488.6	456.5	436.9	423.0	413.2
5421.6	27.5°	4101.1	2529.3	689.6	541.6	487.2	449.5	418.8	396.4	383.9	376.9
5746.9	30°	4271.4	2525.2	657.5	502.5	450.9	413.2	382.5	361.5	351.8	349.0
6104.2	32.5°	4476.6	2536.3	671.4	488.6	417.4	379.7	350.4	335.0	325.2	325.2
6502.0	35°	4695.8	2533.5	692.4	501.1	395.0	346.2	323.8	314.1	304.3	304.3
6943.1	37.5°	4970.7	2537.7	709.1	522.1	386.7	318.3	305.7	293.1	287.6	287.6
7426.1	40°	5381.1	2675.9	700.7	540.2	383.9	298.7	273.6	269.4	265.2	265.2
7971.9	42.5°	5883.7	2976.0	711.9	541.6	382.5	284.8	251.3	259.6	249.9	248.5
8587.5	45°	6433.6	3304.1	783.1	512.3	381.1	277.8	240.1	249.9	234.5	234.5
9300.8	47.5°	6979.4	3629.3	855.7	470.4	376.9	276.4	230.3	224.7	220.5	221.9
10230.4	50°	7731.8	3894.5	883.6	413.2	367.1	273.6	212.2	213.6	210.8	213.6
11541.2	52.5°	8551.2	3950.4	850.1	349.0	339.2	265.2	199.6	205.2	203.8	206.6
12463.9	55°	9062.1	3890.3	702.1	290.3	295.9	231.7	187.0	198.2	198.2	198.2
13365.6	57.5°	9589.7	3634.9	498.3	235.9	245.7	189.8	175.9	191.2	189.8	188.4
14451.6	60°	9969.4	3221.7	328.0	194.0	195.4	156.3	163.3	180.1	178.7	171.7
15571.1	62.5°	10252.8	2765.2	210.8	164.7	149.4	141.0	149.4	163.3	157.7	142.4
16520.3	65°	10220.7	2132.9	161.9	141.0	122.8	122.8	129.8	142.4	125.6	100.5
16701.8	67.5°	9624.6	1443.3	134.0	118.7	103.3	101.9	107.5	118.7	107.5	85.1
15772.1	70°	8559.6	943.6	107.5	92.1	82.4	75.4	86.5	101.9	90.7	68.4
13427.0	72.5°	6947.3	575.1	81.0	67.0	60.0	48.9	68.4	83.8	72.6	50.3
9337.1	75°	4494.8	293.1	55.8	43.3	32.1	29.3	50.3	62.8	50.3	30.7
4143.0	77.5°	1719.7	122.8	30.7	19.5	16.8	14.0	27.9	37.7	20.9	7.0
802.6	80°	330.8	51.6	15.4	9.8	8.4	5.6	4.2	2.8	0.0	0.0
142.4	82.5°	57.2	16.8	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
27.9	85°	19.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.8	87.5°	7.0	0.0	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

180°
2592.2
1573.2
921.3
749.6
692.4
639.3
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543.0
498.3
455.1
411.8
376.9
347.6
325.2
304.3
287.6
265.2
247.1
234.5
221.9
213.6
206.6
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