

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: P953915

Luminaire Tested: **GALN-SB7B-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953915
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-SB7B-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 450mA 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: 29484 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

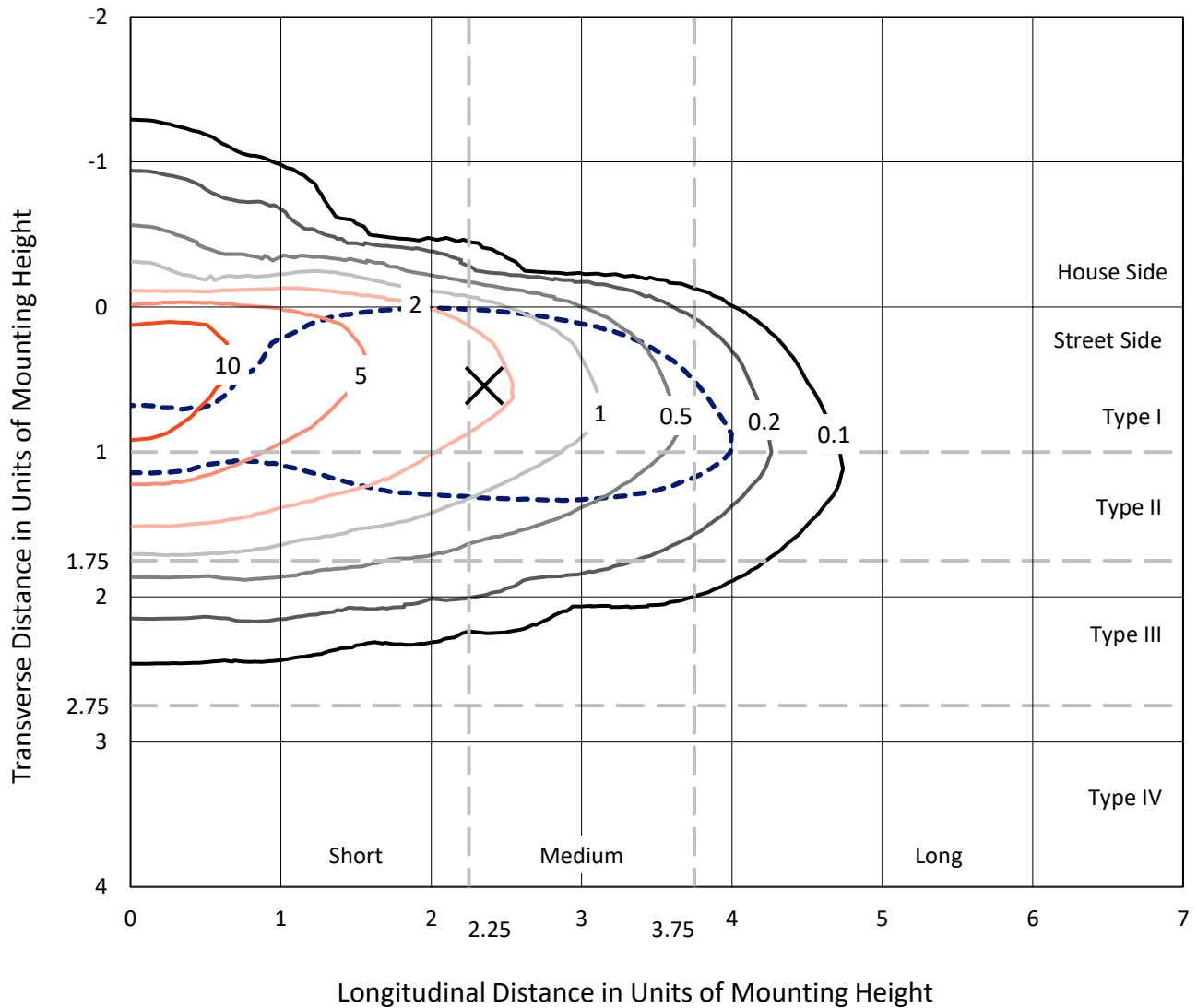
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

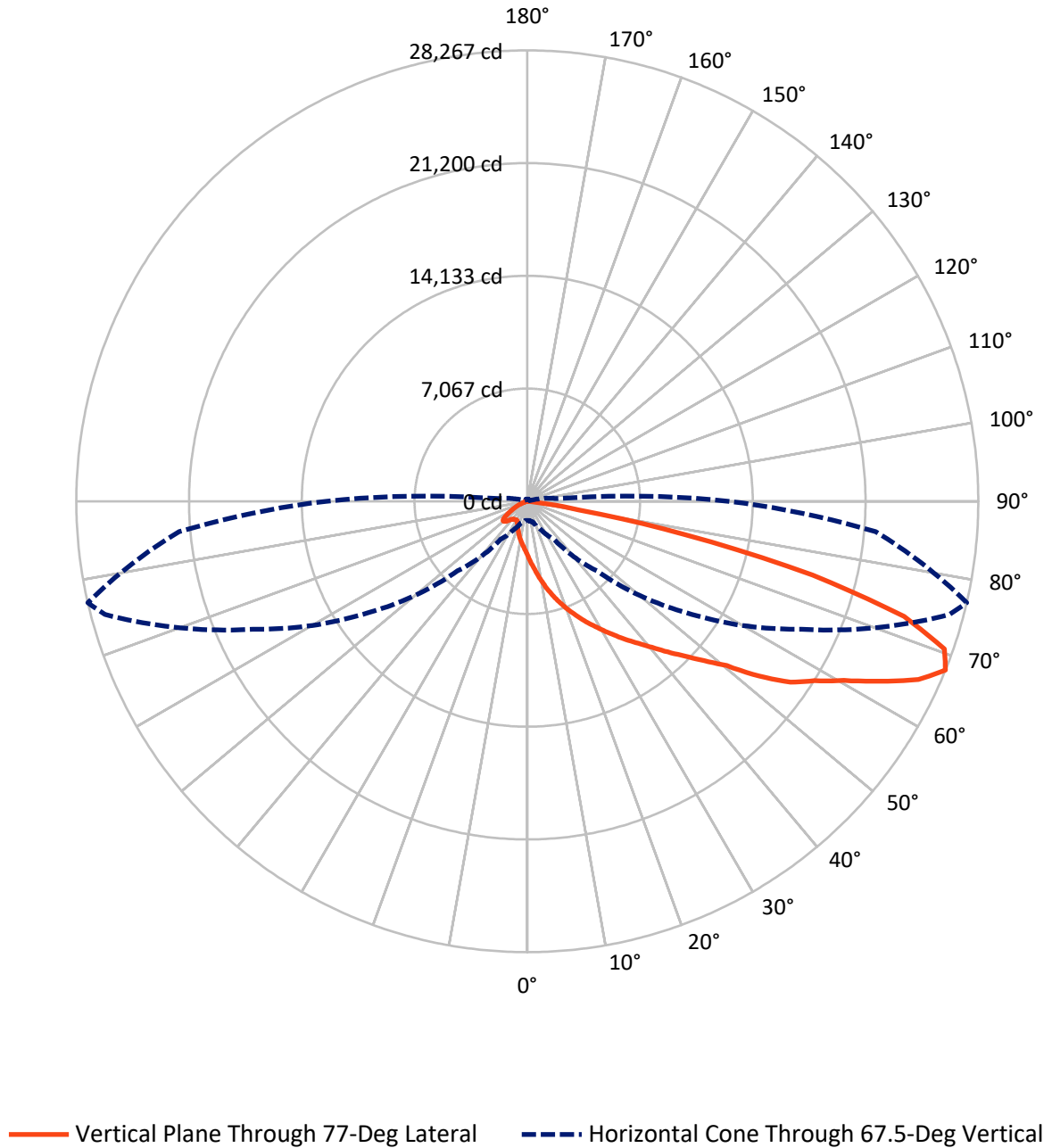
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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	2169.2	0.0	2169.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	27314.8	0.0	27314.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	29484.0	0.0	29484.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.0	1.2
10°-20°	1215.2	4.1
20°-30°	2345.0	8.0
30°-40°	4071.1	13.8
40°-50°	5911.1	20.0
50°-60°	6788.1	23.0
60°-70°	5893.3	20.0
70°-80°	2775.8	9.4
80°-90°	137.3	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°	29484.0	100.0
0°-180°	29484.0	100.0

Coefficient of Utilization



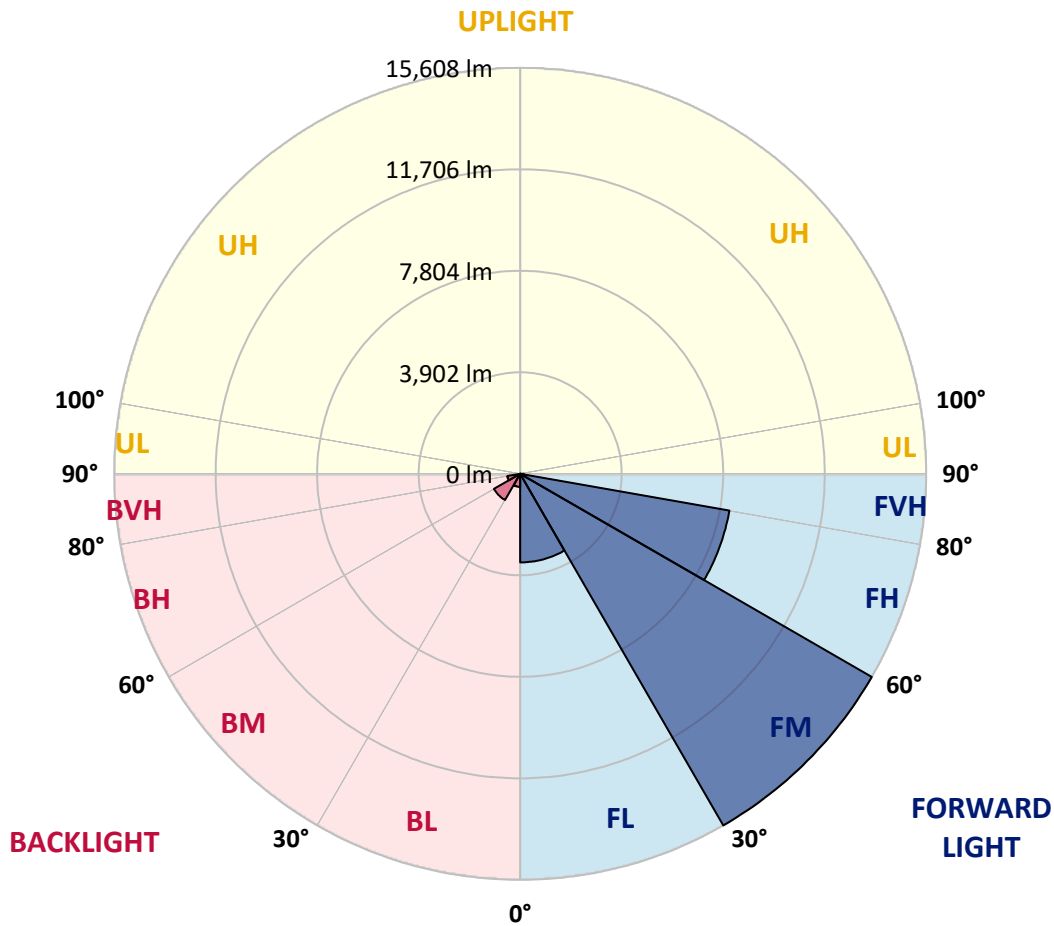
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3405.1	11.5			
FM (30°-60°)	15608.0	52.9			
FH (60°-80°)	8167.0	27.7			G4/12000
FVH (80°-90°)	134.7	0.5			G2/225
BL (0°-30°)	502.2	1.7	B2/1000		
BM (30°-60°)	1162.3	3.9	B2/2500		
BH (60°-80°)	502.2	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.5	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3399.9	3399.9	3399.9	3399.9	3399.9	3399.9	3399.9	3399.9	3399.9	3399.9
2.5°	4707.2	4736.5	4694.4	4613.8	4493.0	4414.2	4222.0	4040.7	3839.3	3775.3
5°	5738.0	5763.6	5716.0	5628.1	5467.0	5313.2	5060.5	4681.6	4287.9	4161.6
7.5°	6501.4	6516.1	6497.8	6417.2	6263.4	6089.5	5807.5	5359.0	4774.9	4635.8
10°	7050.7	7098.3	7092.8	7061.7	6959.2	6818.2	6517.9	6007.1	5320.5	5141.1
12.5°	7415.1	7468.1	7499.3	7568.8	7563.4	7473.6	7210.0	6669.9	5864.3	5653.7
15°	7521.2	7578.0	7697.0	7858.1	8000.9	8046.7	7861.8	7319.8	6463.0	6193.9
17.5°	7460.8	7548.7	7691.5	7946.0	8259.1	8466.0	8445.8	7947.8	7006.8	6699.2
20°	7594.5	7678.7	7790.4	8004.6	8368.9	8744.3	8894.4	8548.4	7546.9	7224.6
22.5°	8334.2	8319.5	8330.5	8365.3	8583.2	8954.8	9264.2	9094.0	8081.5	7751.9
25°	9505.9	9440.0	9328.3	9139.7	9084.8	9264.2	9586.5	9577.3	8645.4	8292.0
27.5°	10849.8	10838.8	10577.0	10122.9	9866.6	9797.0	9950.8	10047.9	9203.8	8826.7
30°	12136.9	12166.2	11812.8	11307.5	10837.0	10564.2	10425.0	10494.6	9771.4	9403.4
32.5°	13257.4	13288.5	12904.0	12312.6	11730.4	11400.9	11107.9	10935.8	10390.2	9989.3
35°	14203.9	14235.1	13793.8	13140.2	12519.5	12221.1	11889.7	11419.2	11012.7	10639.2
37.5°	15049.8	15040.7	14449.3	13790.2	13180.5	12944.3	12770.4	12014.2	11653.5	11292.8
40°	15549.6	15588.1	15082.8	14355.9	13764.5	13592.4	13581.4	12752.1	12393.2	12043.5
42.5°	15696.1	15763.9	15397.7	14800.8	14264.4	14077.6	14365.1	13550.3	13253.7	12913.2
45°	15432.5	15498.4	15331.8	14918.0	14604.9	14484.1	15038.8	14377.9	14172.8	13835.9
47.5°	14663.5	14745.9	14786.2	14698.3	14694.6	14817.3	15643.0	15249.4	15264.0	14919.8
50°	13175.0	13314.1	13684.0	13995.2	14476.7	15080.9	16230.7	16194.1	16494.4	16197.8
52.5°	10469.0	10666.7	11941.0	12792.3	13874.4	15031.5	16877.0	17710.1	18653.0	18219.1
55°	8412.9	8412.9	9449.2	11042.0	12699.0	14705.6	17159.0	18695.1	20123.2	20020.6
57.5°	6858.5	6940.9	7601.8	9009.7	10998.1	13929.3	17332.9	19313.9	21307.7	21232.7
60°	4233.0	4410.6	5659.2	7048.9	9062.8	12547.0	17223.1	19940.1	22745.0	22805.4
62.5°	2383.8	2449.7	3006.3	5071.5	7047.0	10688.7	16382.7	20289.8	24583.2	24839.5
65°	1646.0	1678.9	1893.1	3156.4	4884.8	8509.9	14740.4	20071.9	26425.0	26943.2
67.5°	1195.6	1212.0	1345.7	1927.9	2898.3	6170.1	12166.2	18973.4	27400.9	28266.9
70°	919.1	930.1	1027.1	1267.0	1711.9	3808.2	8835.8	16789.1	26694.2	27728.6
72.5°	747.0	758.0	833.0	937.4	1135.1	2252.0	5355.3	13634.5	23574.4	24691.2
75°	629.8	644.5	712.2	780.0	889.8	1446.4	2512.0	9494.9	17728.4	18460.7
77.5°	349.7	322.2	578.6	646.3	750.7	915.4	1175.4	5587.8	9928.8	10132.1
80°	217.9	225.2	459.6	520.0	576.7	461.4	538.3	2151.3	3442.0	3269.9
82.5°	12.8	29.3	353.4	375.3	395.5	197.7	203.2	730.5	829.4	761.6
85°	0.0	0.0	161.1	130.0	137.3	56.8	58.6	170.3	111.7	120.8
87.5°	0.0	0.0	0.0	3.7	0.0	5.5	11.0	14.6	5.5	7.3
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°
3399.9	0°	3399.9	3399.9	3399.9	3399.9	3399.9	3399.9	3399.9	3399.9	3399.9	3399.9
3573.9	2.5°	3445.7	3317.5	3057.6	2803.1	2596.2	2403.9	2266.6	2136.6	2070.7	2067.1
3804.6	5°	3550.1	3280.9	2761.0	2301.4	1931.6	1635.0	1442.7	1305.4	1235.8	1212.0
4088.3	7.5°	3696.5	3291.9	2501.0	1862.0	1426.3	1171.8	1061.9	1018.0	1003.3	986.8
4408.8	10°	3881.5	3317.5	2268.5	1499.5	1124.2	996.0	952.1	933.7	922.8	911.8
4769.4	12.5°	4088.3	3341.4	2037.8	1245.0	988.7	922.8	891.6	869.7	855.0	842.2
5139.3	15°	4289.7	3356.0	1797.9	1067.4	919.1	866.0	833.0	809.2	789.1	774.5
5501.8	17.5°	4489.3	3376.1	1572.7	961.2	862.3	809.2	776.3	747.0	730.5	714.0
5882.6	20°	4710.8	3372.5	1360.3	886.1	805.6	752.5	717.7	690.2	673.8	655.5
6285.4	22.5°	4915.9	3354.2	1173.6	822.1	747.0	695.7	657.3	629.8	613.3	598.7
6697.3	25°	5152.1	3339.5	1018.0	763.5	692.1	640.8	598.7	573.1	554.8	541.9
7111.1	27.5°	5379.1	3317.5	904.5	710.4	639.0	589.5	549.3	520.0	503.5	494.3
7537.7	30°	5602.5	3312.1	862.3	659.1	591.4	541.9	501.7	474.2	461.4	457.7
8006.4	32.5°	5871.6	3326.7	880.7	640.8	547.4	498.0	459.6	439.4	426.6	426.6
8528.2	35°	6159.1	3323.0	908.1	657.3	518.1	454.1	424.8	411.9	399.1	399.1
9106.8	37.5°	6519.8	3328.5	930.1	684.7	507.2	417.4	401.0	384.5	377.2	377.2
9740.3	40°	7058.0	3509.8	919.1	708.5	503.5	391.8	358.9	353.4	347.9	347.9
10456.1	42.5°	7717.1	3903.4	933.7	710.4	501.7	373.5	329.6	340.5	327.7	325.9
11263.6	45°	8438.5	4333.7	1027.1	671.9	499.8	364.3	314.9	327.7	307.6	307.6
12199.1	47.5°	9154.4	4760.3	1122.3	617.0	494.3	362.5	302.1	294.8	289.3	291.1
13418.5	50°	10141.2	5108.1	1158.9	541.9	481.5	358.9	278.3	280.1	276.5	280.1
15137.7	52.5°	11216.0	5181.4	1115.0	457.7	444.9	347.9	261.8	269.1	267.3	271.0
16347.9	55°	11886.1	5102.7	920.9	380.8	388.1	303.9	245.3	260.0	260.0	260.0
17530.6	57.5°	12578.1	4767.6	653.6	309.4	322.2	249.0	230.7	250.8	249.0	247.2
18955.1	60°	13076.1	4225.7	430.3	254.5	256.3	205.1	214.2	236.2	234.4	225.2
20423.4	62.5°	13447.8	3627.0	276.5	216.0	195.9	184.9	195.9	214.2	206.9	186.7
21668.4	65°	13405.7	2797.6	212.4	184.9	161.1	161.1	170.3	186.7	164.8	131.8
21906.4	67.5°	12623.9	1893.1	175.8	155.6	135.5	133.7	141.0	155.6	141.0	111.7
20687.1	70°	11226.9	1237.7	141.0	120.8	108.0	98.9	113.5	133.7	119.0	89.7
17611.2	72.5°	9112.3	754.3	106.2	87.9	78.7	64.1	89.7	109.9	95.2	65.9
12246.7	75°	5895.4	384.5	73.2	56.8	42.1	38.4	65.9	82.4	65.9	40.3
5434.0	77.5°	2255.6	161.1	40.3	25.6	22.0	18.3	36.6	49.4	27.5	9.2
1052.8	80°	433.9	67.7	20.1	12.8	11.0	7.3	5.5	3.7	0.0	0.0
186.7	82.5°	75.1	22.0	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
36.6	85°	25.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.8	87.5°	9.2	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

<u>180°</u>
3399.9
2063.4
1208.4
983.2
908.1
838.5
772.6
712.2
653.6
596.9
540.1
494.3
455.9
426.6
399.1
377.2
347.9
324.1
307.6
291.1
280.1
271.0
260.0
247.2
225.2
183.1
128.2
108.0
86.1
62.2
34.8
7.3
0.0
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