

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: P953243

Luminaire Tested: **GALN-SB6D-835-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953243
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-SB6D-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 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: 48461 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

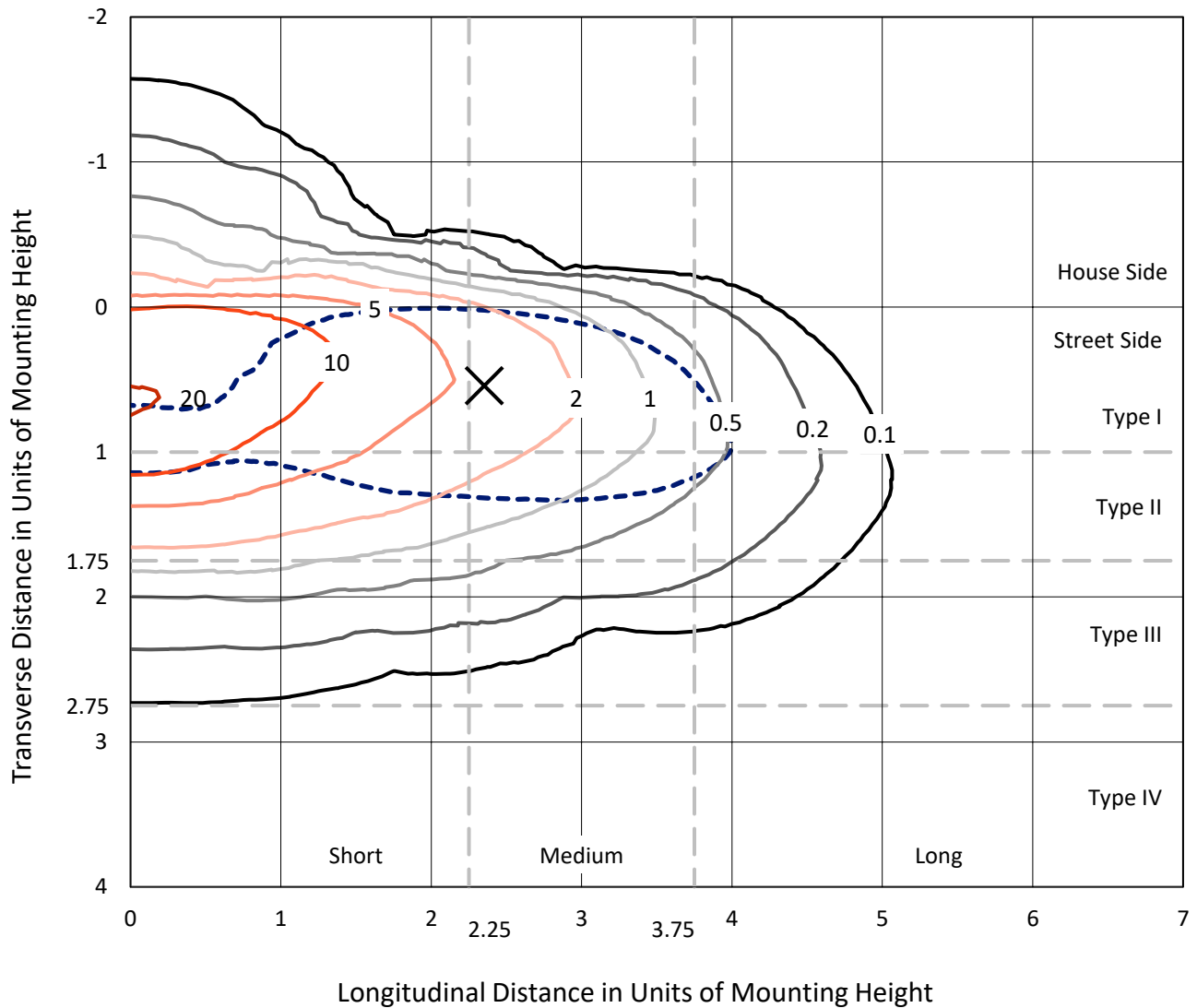
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

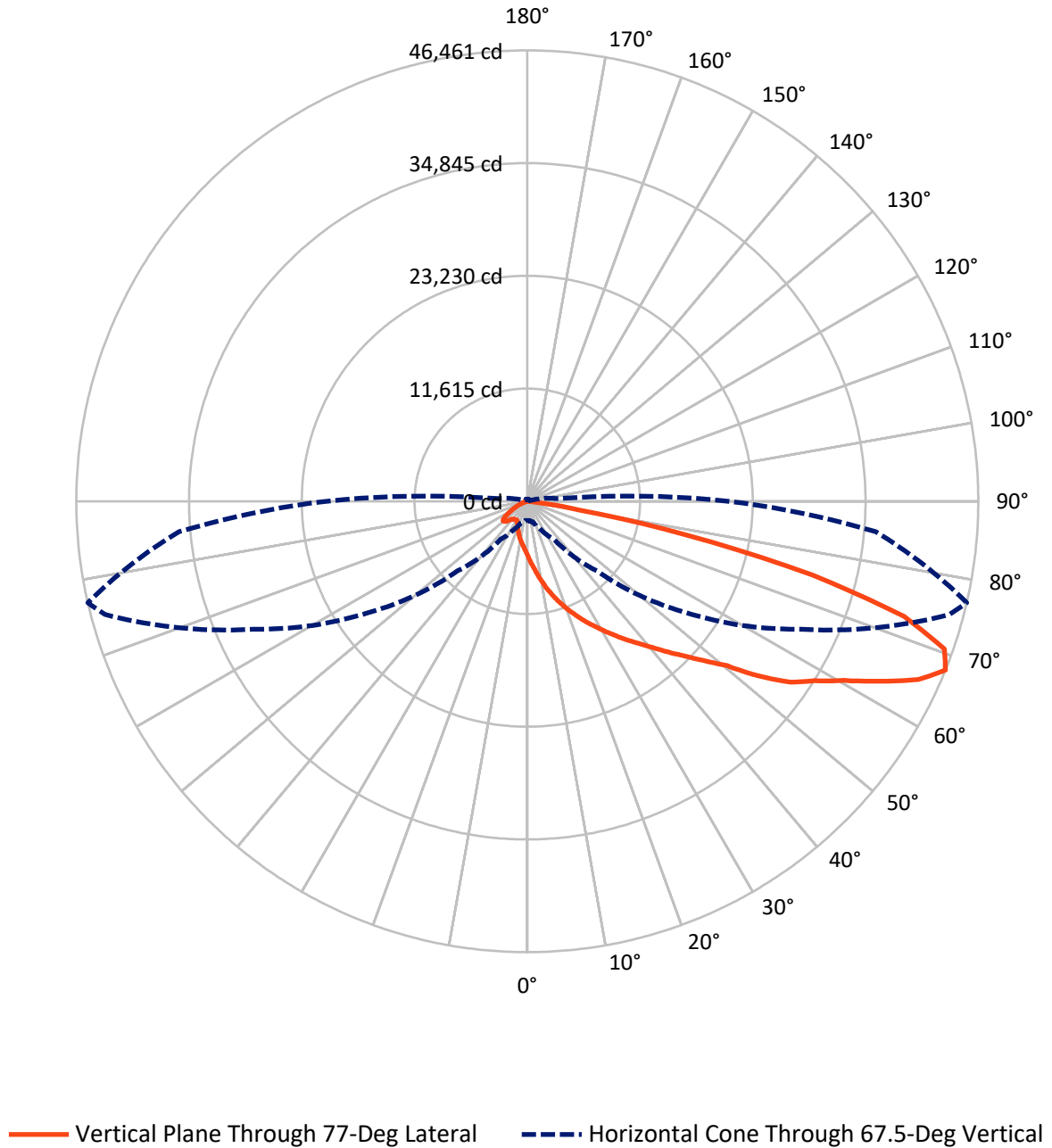
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 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	3565.3	0.0	3565.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	44895.7	0.0	44895.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	48461.0	0.0	48461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.4	1.2
10°-20°	1997.4	4.1
20°-30°	3854.4	8.0
30°-40°	6691.5	13.8
40°-50°	9715.6	20.0
50°-60°	11157.2	23.0
60°-70°	9686.5	20.0
70°-80°	4562.4	9.4
80°-90°	225.6	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°	48461.0	100.0
0°-180°	48461.0	100.0

Coefficient of Utilization



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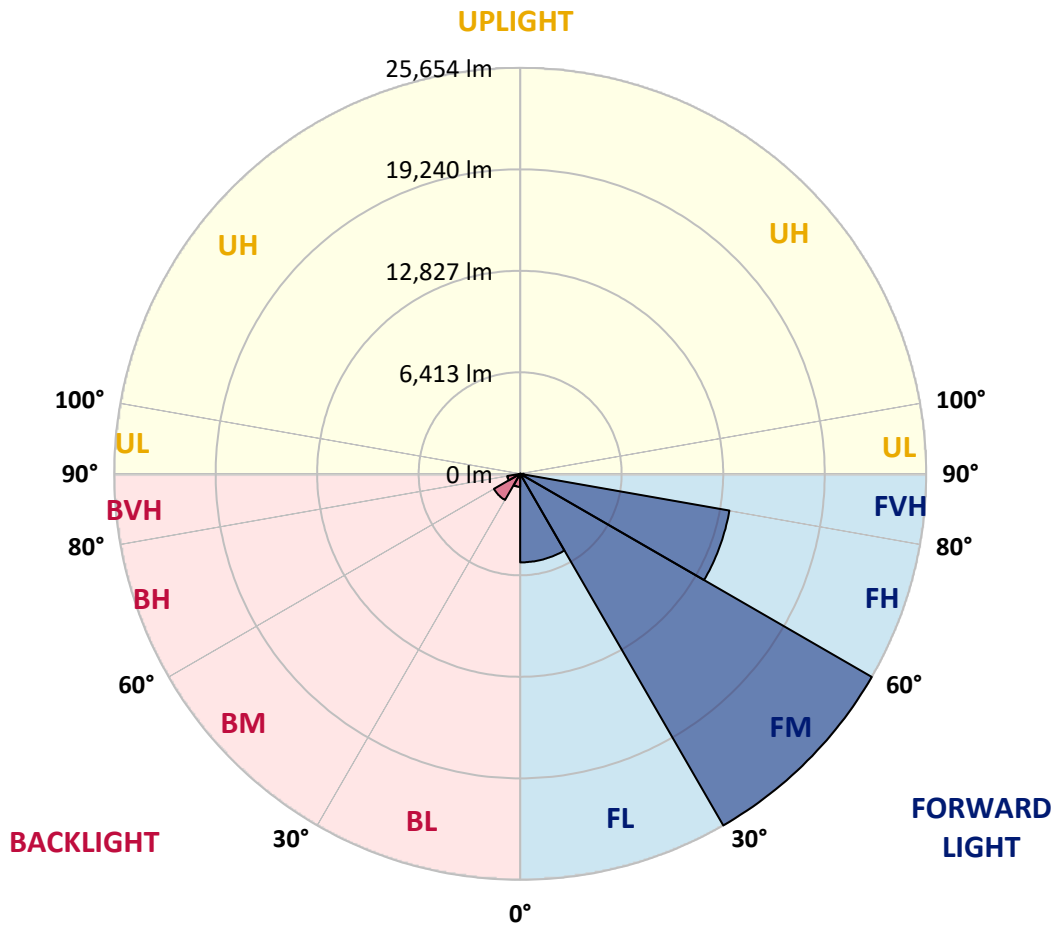
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5596.7	11.5			
FM (30°-60°)	25653.9	52.9			
FH (60°-80°)	13423.5	27.7			G5
FVH (80°-90°)	221.5	0.5			G2/225
BL (0°-30°)	825.4	1.7	B2/1000		
BM (30°-60°)	1910.3	3.9	B2/2500		
BH (60°-80°)	825.4	1.7	B2/1000		G2/1000
BVH (80°-90°)	4.1	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5588.3	5588.3	5588.3	5588.3	5588.3	5588.3	5588.3	5588.3	5588.3	5588.3
2.5°	7736.9	7785.1	7715.8	7583.4	7384.8	7255.4	6939.4	6641.5	6310.5	6205.2
5°	9431.1	9473.3	9395.0	9250.6	8985.8	8733.0	8317.7	7694.8	7047.8	6840.1
7.5°	10686.0	10710.1	10680.0	10547.6	10294.8	10008.9	9545.5	8808.2	7848.2	7619.5
10°	11588.8	11667.0	11658.0	11606.9	11438.3	11206.6	10713.1	9873.5	8745.0	8450.1
12.5°	12187.7	12274.9	12326.1	12440.4	12431.4	12284.0	11850.6	10962.9	9638.8	9292.7
15°	12362.2	12455.5	12651.1	12915.9	13150.6	13225.9	12921.9	12031.2	10622.8	10180.5
17.5°	12262.9	12407.3	12642.1	13060.4	13574.9	13915.0	13881.9	13063.4	11516.6	11011.0
20°	12482.6	12621.0	12804.6	13156.6	13755.5	14372.4	14619.2	14050.4	12404.3	11874.7
22.5°	13698.3	13674.2	13692.3	13749.5	14107.6	14718.5	15227.0	14947.2	13283.0	12741.4
25°	15624.3	15515.9	15332.4	15022.4	14932.1	15227.0	15756.7	15741.6	14209.9	13629.1
27.5°	17833.1	17815.0	17384.7	16638.4	16217.1	16102.8	16355.5	16515.0	15127.7	14507.8
30°	19948.6	19996.8	19416.0	18585.4	17812.0	17363.6	17134.9	17249.3	16060.6	15455.8
32.5°	21790.3	21841.5	21209.5	20237.5	19280.6	18738.9	18257.4	17974.5	17077.8	16418.7
35°	23346.1	23397.3	22672.0	21597.7	20577.6	20087.1	19542.4	18769.0	18100.9	17487.0
37.5°	24736.4	24721.4	23749.4	22666.0	21663.9	21275.7	20989.9	19747.0	19154.2	18561.3
40°	25558.0	25621.2	24790.6	23595.9	22623.9	22341.0	22323.0	20959.8	20369.9	19795.2
42.5°	25798.7	25910.1	25308.2	24327.2	23445.4	23138.5	23610.9	22271.8	21784.3	21224.6
45°	25365.4	25473.7	25199.9	24519.8	24005.2	23806.6	24718.4	23632.0	23295.0	22741.3
47.5°	24101.5	24236.9	24303.1	24158.6	24152.6	24354.2	25711.4	25064.4	25088.5	24522.8
50°	21654.9	21883.6	22491.5	23003.1	23794.5	24787.6	26677.4	26617.2	27110.8	26623.3
52.5°	17207.2	17532.2	19626.6	21026.0	22804.5	24706.3	27739.7	29108.9	30658.7	29945.5
55°	13827.7	13827.7	15531.0	18149.1	20872.5	24170.7	28203.1	30727.9	33075.2	32906.7
57.5°	11272.8	11408.2	12494.6	14808.8	18076.9	22894.7	28489.0	31745.1	35022.2	34898.8
60°	6957.5	7249.4	9301.7	11585.8	14896.0	20622.7	28308.5	32774.3	37384.5	37483.8
62.5°	3918.1	4026.4	4941.3	8335.8	11582.8	17568.3	26927.2	33349.0	40405.8	40827.1
65°	2705.4	2759.5	3111.6	5188.0	8028.8	13987.2	24227.9	32990.9	43433.2	44284.8
67.5°	1965.1	1992.2	2211.8	3168.8	4763.7	10141.3	19996.8	31185.4	45037.1	46460.5
70°	1510.7	1528.7	1688.2	2082.4	2813.7	6259.3	14522.9	27595.3	43875.6	45575.8
72.5°	1227.8	1245.8	1369.2	1540.8	1865.8	3701.4	8802.2	22410.2	38747.7	40583.4
75°	1035.2	1059.3	1170.6	1282.0	1462.5	2377.3	4128.8	15606.2	29139.0	30342.7
77.5°	574.8	529.6	950.9	1062.3	1233.8	1504.6	1932.0	9184.4	16319.4	16653.5
80°	358.1	370.1	755.3	854.6	947.9	758.3	884.7	3535.9	5657.5	5374.6
82.5°	21.1	48.1	580.8	616.9	650.0	325.0	334.0	1200.7	1363.2	1251.9
85°	0.0	0.0	264.8	213.7	225.7	93.3	96.3	279.9	183.6	198.6
87.5°	0.0	0.0	0.0	6.0	0.0	9.0	18.1	24.1	9.0	12.0
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°
5588.3	0°	5588.3	5588.3	5588.3	5588.3	5588.3	5588.3	5588.3	5588.3	5588.3	5588.3
5874.1	2.5°	5663.5	5452.8	5025.5	4607.2	4267.2	3951.2	3725.5	3511.9	3403.5	3397.5
6253.3	5°	5835.0	5392.7	4538.0	3782.7	3174.8	2687.3	2371.3	2145.6	2031.3	1992.2
6719.8	7.5°	6075.8	5410.7	4110.7	3060.5	2344.2	1926.0	1745.4	1673.2	1649.1	1622.0
7246.4	10°	6379.7	5452.8	3728.5	2464.6	1847.7	1637.1	1564.8	1534.7	1516.7	1498.6
7839.2	12.5°	6719.8	5492.0	3349.3	2046.3	1625.0	1516.7	1465.5	1429.4	1405.3	1384.3
8447.1	15°	7050.8	5516.0	2955.1	1754.4	1510.7	1423.4	1369.2	1330.1	1297.0	1272.9
9042.9	17.5°	7378.8	5549.1	2585.0	1579.9	1417.4	1330.1	1275.9	1227.8	1200.7	1173.6
9668.9	20°	7742.9	5543.1	2235.9	1456.5	1324.1	1236.8	1179.6	1134.5	1107.4	1077.3
10330.9	22.5°	8080.0	5513.0	1929.0	1351.2	1227.8	1143.5	1080.3	1035.2	1008.1	984.0
11008.0	25°	8468.2	5489.0	1673.2	1254.9	1137.5	1053.3	984.0	941.9	911.8	890.8
11688.1	27.5°	8841.3	5452.8	1486.6	1167.6	1050.2	969.0	902.8	854.6	827.6	812.5
12389.3	30°	9208.5	5443.8	1417.4	1083.3	972.0	890.8	824.5	779.4	758.3	752.3
13159.7	32.5°	9650.8	5467.9	1447.5	1053.3	899.8	818.5	755.3	722.2	701.2	701.2
14017.3	35°	10123.3	5461.9	1492.6	1080.3	851.6	746.3	698.2	677.1	656.0	656.0
14968.2	37.5°	10716.1	5470.9	1528.7	1125.5	833.6	686.1	659.0	632.0	619.9	619.9
16009.5	40°	11600.8	5768.8	1510.7	1164.6	827.6	644.0	589.8	580.8	571.8	571.8
17186.1	42.5°	12684.2	6415.8	1534.7	1167.6	824.5	613.9	541.7	559.7	538.7	535.7
18513.2	45°	13869.9	7123.0	1688.2	1104.4	821.5	598.9	517.6	538.7	505.6	505.6
20050.9	47.5°	15046.5	7824.2	1844.7	1014.1	812.5	595.8	496.5	484.5	475.5	478.5
22055.1	50°	16668.5	8395.9	1904.9	890.8	791.4	589.8	457.4	460.4	454.4	460.4
24880.9	52.5°	18435.0	8516.3	1832.7	752.3	731.3	571.8	430.3	442.4	439.4	445.4
26870.0	55°	19536.4	8386.9	1513.7	625.9	638.0	499.5	403.2	427.3	427.3	427.3
28814.0	57.5°	20673.9	7836.2	1074.3	508.6	529.6	409.3	379.2	412.3	409.3	406.3
31155.3	60°	21492.4	6945.5	707.2	418.3	421.3	337.0	352.1	388.2	385.2	370.1
33568.7	62.5°	22103.3	5961.4	454.4	355.1	322.0	303.9	322.0	352.1	340.1	306.9
35615.0	65°	22034.1	4598.2	349.1	303.9	264.8	264.8	279.9	306.9	270.8	216.7
36006.2	67.5°	20749.1	3111.6	288.9	255.8	222.7	219.7	231.7	255.8	231.7	183.6
34002.1	70°	18453.0	2034.3	231.7	198.6	177.5	162.5	186.6	219.7	195.6	147.5
28946.4	72.5°	14977.3	1239.8	174.5	144.4	129.4	105.3	147.5	180.6	156.5	108.3
20129.2	75°	9689.9	632.0	120.4	93.3	69.2	63.2	108.3	135.4	108.3	66.2
8931.6	77.5°	3707.5	264.8	66.2	42.1	36.1	30.1	60.2	81.3	45.1	15.0
1730.3	80°	713.2	111.3	33.1	21.1	18.1	12.0	9.0	6.0	0.0	0.0
306.9	82.5°	123.4	36.1	12.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
60.2	85°	42.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21.1	87.5°	15.0	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

<u>180°</u>
5588.3
3391.5
1986.1
1616.0
1492.6
1378.3
1269.9
1170.6
1074.3
981.0
887.7
812.5
749.3
701.2
656.0
619.9
571.8
532.6
505.6
478.5
460.4
445.4
427.3
406.3
370.1
300.9
210.7
177.5
141.4
102.3
57.2
12.0
0.0
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