

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: P956227

Luminaire Tested: **GALN-SB8D-940-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956227
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-SB8D-940-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 45569 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

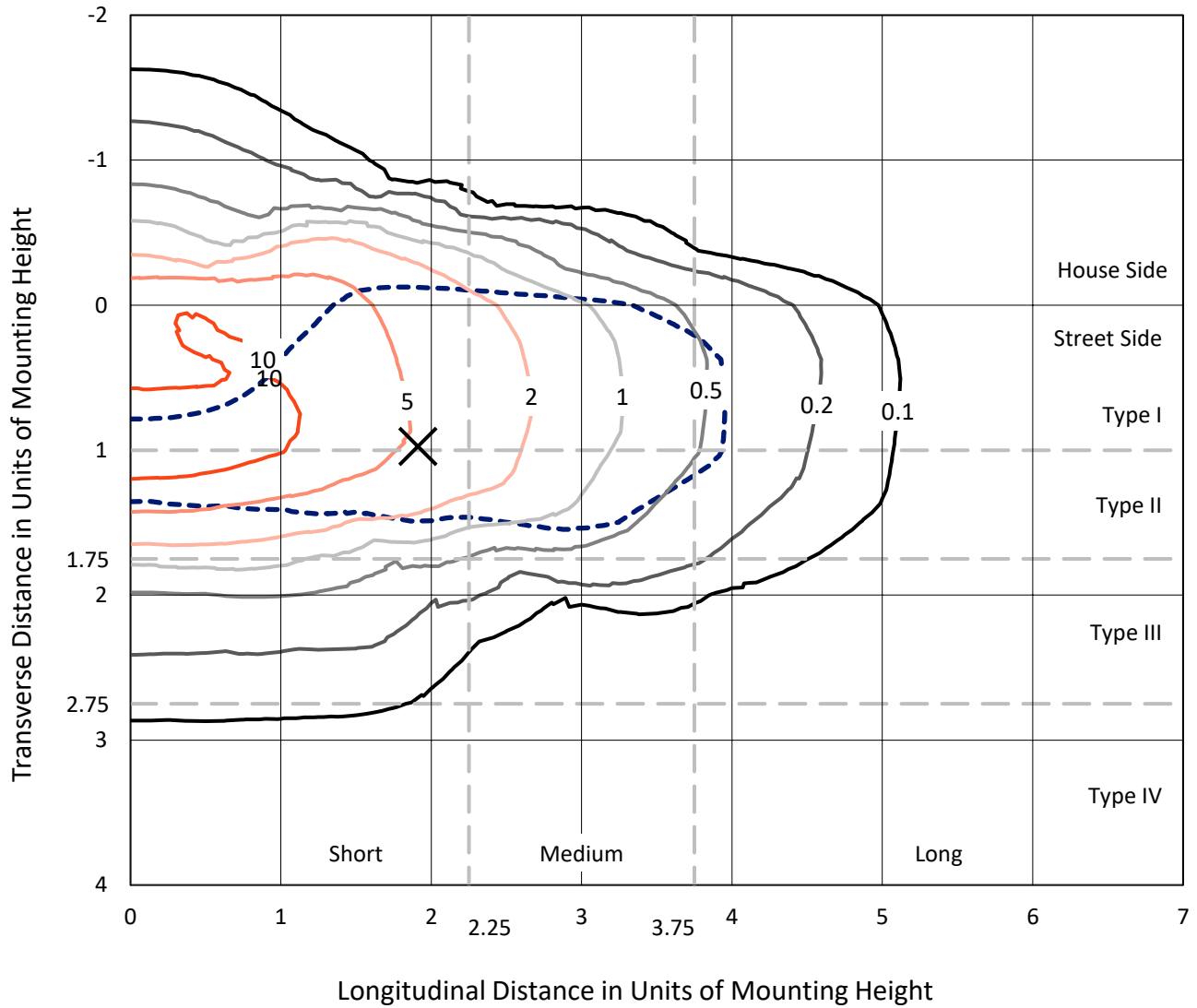
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

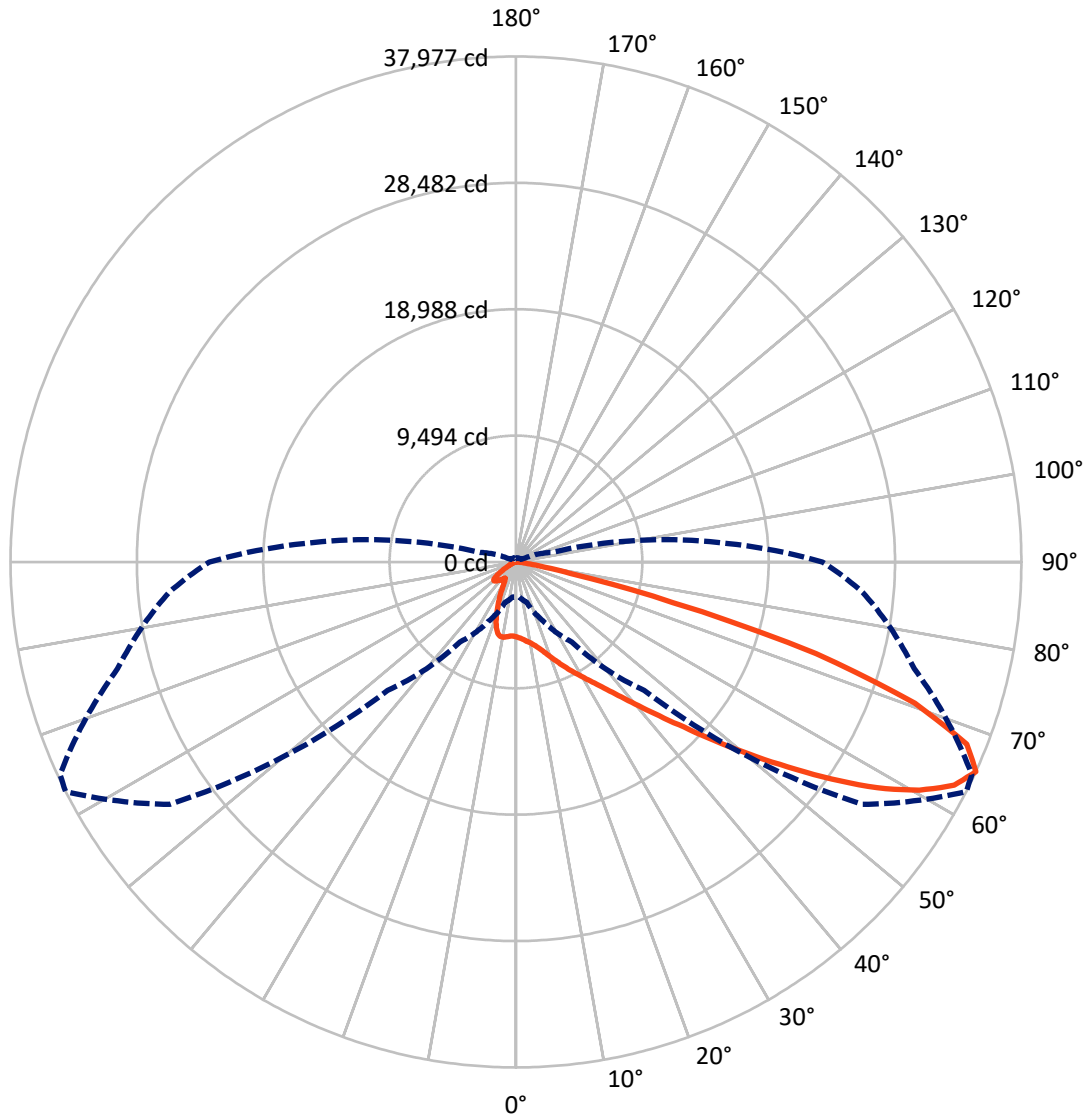
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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	6698.3	0.0	6698.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	38870.7	0.0	38870.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	45569.0	0.0	45569.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.9	1.2
10°-20°	1470.3	3.2
20°-30°	2560.1	5.6
30°-40°	4614.3	10.1
40°-50°	9151.6	20.1
50°-60°	12466.1	27.4
60°-70°	9950.3	21.8
70°-80°	4502.7	9.9
80°-90°	323.7	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°	45569.0	100.0
0°-180°	45569.0	100.0



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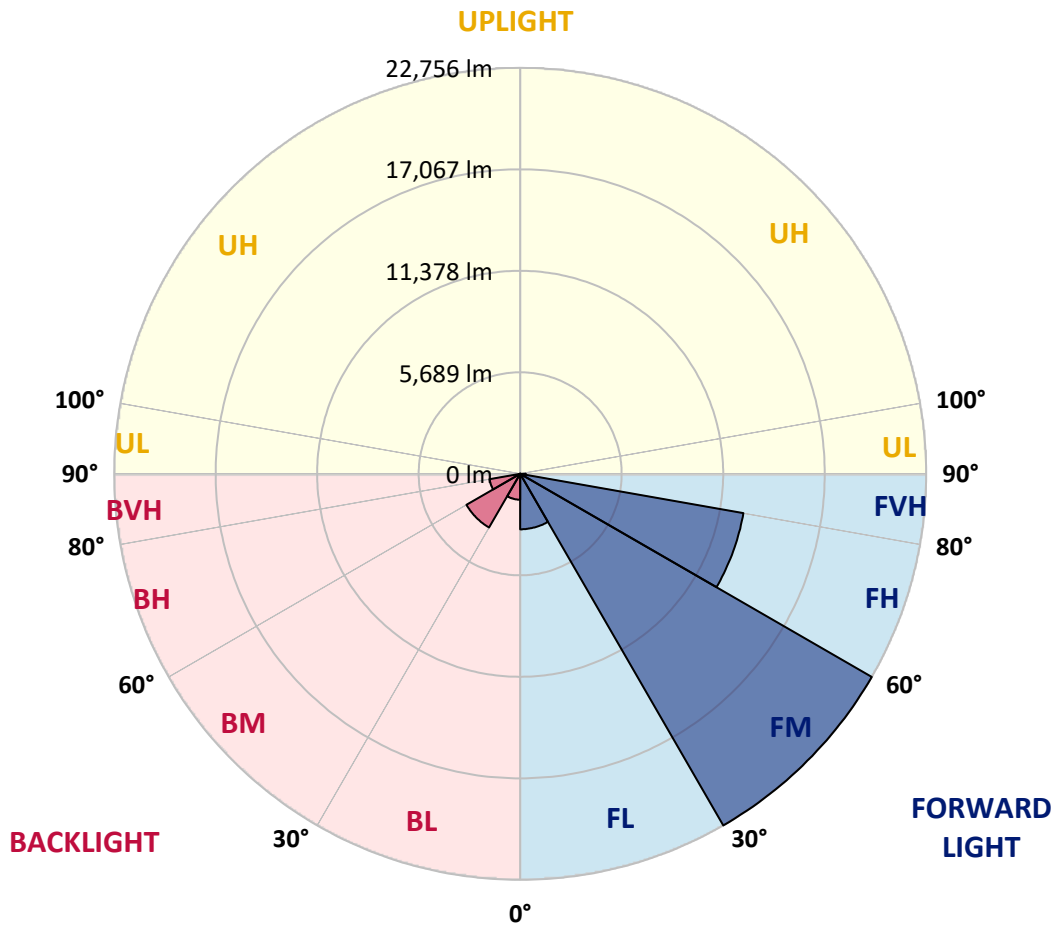
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3110.6	6.8			
FM (30°-60°)	22756.0	49.9			
FH (60°-80°)	12704.4	27.9			G5
FVH (80°-90°)	299.6	0.7			G3/500
BL (0°-30°)	1449.6	3.2	B3/2500		
BM (30°-60°)	3476.0	7.6	B3/5000		
BH (60°-80°)	1748.6	3.8	B3/2500		G3/2500
BVH (80°-90°)	24.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	5624.1	5624.1	5624.1	5624.1	5624.1	5624.1	5624.1	5624.1	5624.1	5624.1
2.5°	5755.7	5740.1	5762.0	5752.6	5746.3	5733.8	5727.5	5721.3	5708.7	5699.3
5°	5771.4	5762.0	5784.0	5802.8	5821.6	5840.4	5849.8	5862.3	5849.8	5824.7
7.5°	5639.8	5633.5	5680.5	5736.9	5821.6	5893.7	5972.1	6015.9	6019.1	6009.7
10°	5630.3	5614.7	5661.7	5730.7	5840.4	5968.9	6106.9	6200.9	6213.4	6254.2
12.5°	5777.7	5762.0	5827.8	5903.1	6015.9	6150.7	6320.0	6451.7	6470.5	6526.9
15°	6025.3	6003.4	6078.6	6175.8	6320.0	6473.6	6652.3	6771.5	6787.1	6856.1
17.5°	6313.8	6291.8	6379.6	6483.0	6639.8	6849.8	7056.7	7188.4	7207.2	7251.1
20°	6683.7	6655.5	6724.4	6818.5	6984.6	7235.4	7483.1	7671.2	7668.1	7668.1
22.5°	7113.2	7069.3	7128.8	7204.1	7360.8	7664.9	7994.1	8216.7	8216.7	8128.9
25°	7574.0	7530.1	7596.0	7664.9	7802.9	8147.7	8533.3	8809.2	8821.7	8671.2
27.5°	8150.8	8094.4	8144.6	8226.1	8307.6	8658.7	9116.4	9436.2	9442.4	9210.4
30°	9260.6	9100.7	8944.0	8856.2	8893.8	9241.8	9730.8	10085.1	10116.4	9796.7
32.5°	11292.0	11260.7	10708.9	9987.9	9611.7	9868.8	10417.4	10843.7	10862.6	10451.9
35°	14448.9	14411.3	13524.1	12151.0	10925.3	10708.9	11251.3	11756.0	11743.5	11279.5
37.5°	18217.1	18182.6	17013.3	15176.2	13191.8	11978.6	12326.6	12856.4	12934.7	12326.6
40°	21436.7	21308.2	20568.3	18797.1	16201.4	14085.3	13856.4	14207.5	14289.0	13568.0
42.5°	23875.7	23766.0	23389.8	22283.1	19844.1	17201.4	15659.0	15793.8	15884.7	15019.5
45°	25139.1	25114.0	25264.5	25161.0	23555.9	21026.0	18235.9	17674.8	17709.3	16627.7
47.5°	25317.7	25305.2	25991.8	26963.6	26747.3	25339.7	21543.3	20019.7	19897.4	18442.8
50°	24264.4	24239.3	25556.0	27377.4	28879.0	28963.7	25298.9	22662.5	22392.8	20320.7
52.5°	20900.6	20894.4	23057.5	26088.9	29628.3	32136.2	29010.7	25565.4	25114.0	22308.2
55°	16082.2	16198.2	18678.0	22261.2	28261.5	33662.9	32343.1	28788.1	28095.3	24308.3
57.5°	11392.4	11561.6	14013.2	17204.5	24023.0	32760.1	34597.2	32017.1	31271.0	26302.1
60°	6119.4	6269.9	8724.5	12533.5	17872.3	29393.2	35785.3	34819.7	34114.4	28195.6
62.5°	3645.9	3696.1	4711.8	8091.3	12088.3	22455.5	35280.6	36954.6	36374.7	29785.0
65°	2617.7	2627.1	3138.1	4940.7	7338.9	13643.2	31741.2	37976.6	37797.9	30982.6
67.5°	2203.9	2197.6	2410.8	3282.3	5000.2	6834.2	24327.1	36531.4	37290.1	31741.2
70°	1890.4	1899.8	2150.6	2404.5	3758.8	3868.5	12094.6	31807.1	33424.7	31941.9
72.5°	1407.6	1438.9	1670.9	2191.3	2837.1	2661.6	4175.7	23584.1	26509.0	30095.4
75°	993.8	1009.4	1175.6	1843.3	2116.1	1937.4	2131.8	12191.8	15941.2	23073.1
77.5°	764.9	793.1	890.3	1288.5	2084.7	1360.6	1304.1	4219.6	6483.0	13937.9
80°	413.8	464.0	642.7	931.1	1464.0	962.4	645.8	1680.3	2197.6	6517.5
82.5°	213.2	238.3	448.3	670.9	833.9	840.2	319.8	699.1	906.0	2012.6
85°	84.6	103.5	301.0	369.9	429.5	413.8	144.2	282.1	326.0	558.0
87.5°	18.8	31.3	109.7	84.6	81.5	87.8	34.5	65.8	62.7	65.8
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°
5624.1	0°	5624.1	5624.1	5624.1	5624.1	5624.1	5624.1	5624.1	5624.1	5624.1	5624.1
5661.7	2.5°	5658.6	5646.0	5611.5	5573.9	5530.0	5504.9	5489.3	5486.1	5464.2	5448.5
5787.1	5°	5752.6	5740.1	5674.2	5595.9	5511.2	5445.4	5382.7	5326.3	5244.7	5229.1
5968.9	7.5°	5940.7	5906.2	5799.6	5693.0	5533.2	5341.9	5109.9	4843.5	4605.2	4533.1
6210.3	10°	6172.7	6125.7	5990.9	5802.8	5448.5	4928.1	4367.0	3846.6	3432.8	3316.8
6495.6	12.5°	6436.0	6395.3	6216.6	5868.6	5094.3	4150.7	3291.7	2645.9	2244.6	2144.3
6799.7	15°	6749.5	6690.0	6442.3	5768.3	4461.0	3153.7	2260.3	1877.8	1733.6	1714.8
7147.7	17.5°	7081.8	6984.6	6642.9	5407.8	3608.3	2241.5	1746.2	1636.4	1573.7	1554.9
7498.8	20°	7385.9	7260.5	6762.1	4862.3	2696.0	1746.2	1564.3	1492.2	1435.8	1413.9
7849.9	22.5°	7690.0	7511.3	6762.1	4119.3	2022.0	1548.7	1435.8	1370.0	1304.1	1275.9
8226.1	25°	8006.6	7768.4	6642.9	3291.7	1627.0	1420.1	1313.5	1241.4	1185.0	1150.5
8583.5	27.5°	8313.9	7984.7	6370.2	2507.9	1448.3	1307.3	1200.7	1131.7	1078.4	1053.3
8972.2	30°	8605.4	8197.9	5987.7	1902.9	1332.3	1197.5	1097.2	1037.7	984.4	959.3
9476.9	32.5°	9000.4	8467.5	5580.2	1561.2	1232.0	1094.1	1003.2	946.8	899.7	880.9
10132.1	35°	9549.0	8865.6	5229.1	1533.0	1147.4	1009.4	918.5	865.2	818.2	802.5
10978.5	37.5°	10326.5	9508.3	5044.1	1721.1	1078.4	934.2	849.6	793.1	749.2	736.7
12053.8	40°	11285.8	10379.8	5144.4	1909.2	1031.4	868.4	786.9	730.4	692.8	677.1
13289.0	42.5°	12423.8	11455.1	5699.3	2053.4	1000.0	811.9	727.3	664.6	639.5	633.3
14690.3	45°	13731.0	12636.9	6548.9	2207.0	949.9	758.7	667.7	620.7	601.9	598.8
16213.9	47.5°	15217.0	13934.8	7533.3	2398.2	899.7	708.5	620.7	589.4	573.7	567.4
17803.3	50°	16690.4	15242.1	8545.8	2504.8	859.0	661.5	583.1	558.0	545.5	542.3
19483.6	52.5°	18232.8	16586.9	9364.1	2404.5	824.5	623.9	551.7	532.9	520.4	517.3
21032.3	55°	19703.1	17674.8	9505.1	2040.8	755.5	586.2	517.3	507.9	492.2	492.2
22602.9	57.5°	20969.6	18220.2	8508.2	1498.5	686.6	529.8	482.8	473.4	460.8	457.7
24019.9	60°	22132.6	18063.5	6567.7	1009.4	611.3	473.4	438.9	432.6	420.1	404.4
25251.9	62.5°	22787.9	17373.8	4492.4	658.3	536.1	413.8	388.7	385.6	357.4	326.0
26164.2	65°	23035.5	15956.8	2802.6	479.6	448.3	354.2	335.4	329.2	288.4	253.9
26681.4	67.5°	22819.2	13624.4	1413.9	379.3	354.2	294.7	275.9	275.9	247.7	216.3
26650.1	70°	21954.0	10213.6	595.6	304.1	272.7	225.7	225.7	238.3	210.0	175.6
25267.6	72.5°	20076.1	6871.8	316.6	232.0	203.8	159.9	185.0	194.4	166.2	131.7
20681.2	75°	15960.0	4191.4	219.4	172.4	128.5	112.9	141.1	147.3	112.9	87.8
14179.3	77.5°	10915.8	2407.6	147.3	109.7	81.5	65.8	97.2	90.9	59.6	40.8
5467.3	80°	4793.3	1003.2	84.6	50.2	31.3	25.1	34.5	25.1	18.8	12.5
749.2	82.5°	561.2	235.1	31.3	18.8	12.5	6.3	3.1	0.0	0.0	0.0
228.9	85°	116.0	28.2	15.7	6.3	3.1	0.0	0.0	0.0	0.0	0.0
40.8	87.5°	21.9	6.3	3.1	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>
5624.1
5464.2
5222.8
4498.6
3272.9
2116.1
1696.0
1545.5
1401.3
1260.2
1138.0
1053.3
962.4
880.9
802.5
733.6
674.0
633.3
595.6
567.4
542.3
517.3
489.1
454.6
401.3
319.8
250.8
213.2
172.4
131.7
84.6
43.9
12.5
0.0
0.0
0.0
0.0

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