

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: STREETWORKS

Report Number: P638396

Luminaire Tested: **IFLD-S-SA3B-735-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638396
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12369.5 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G2

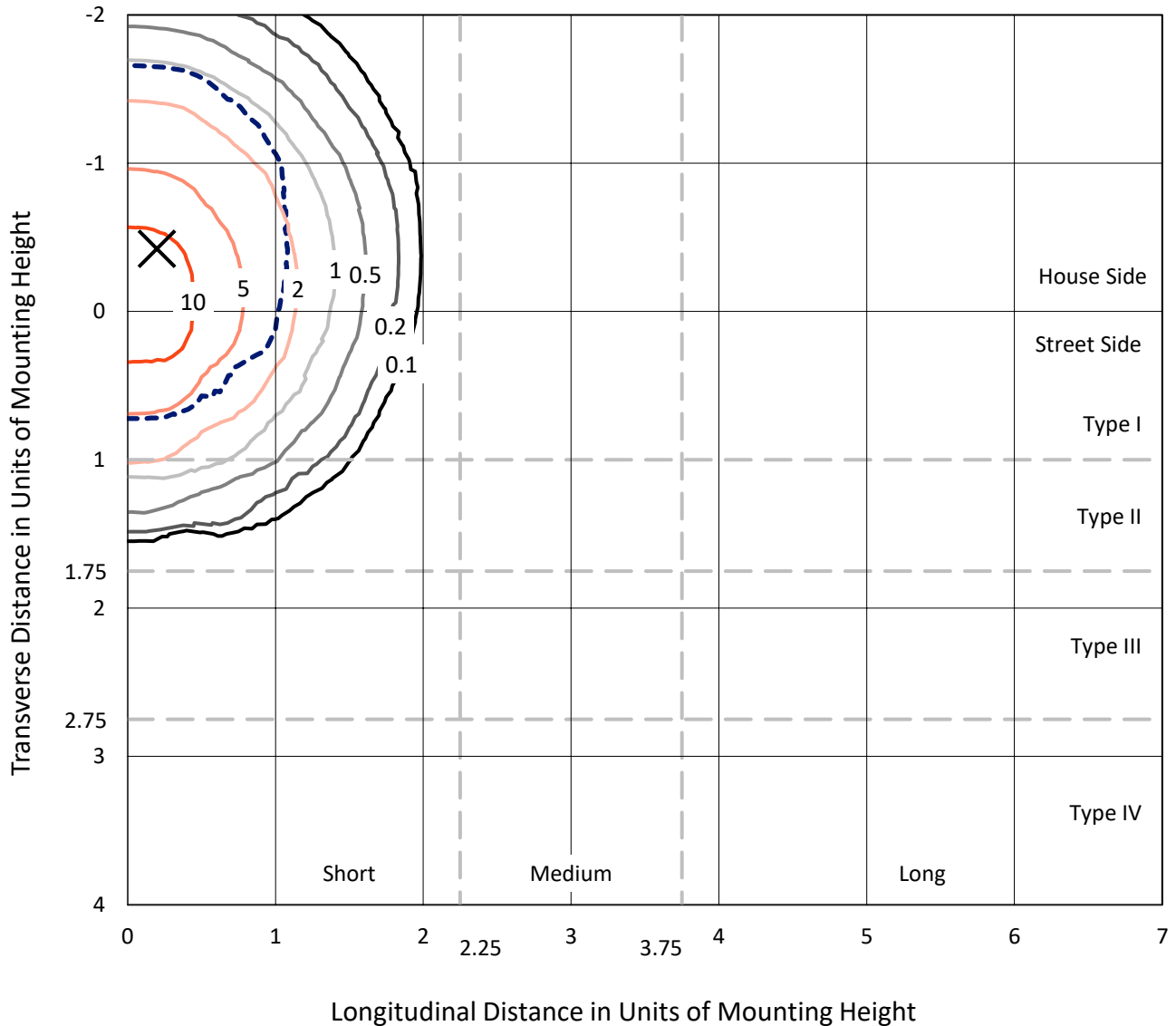
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

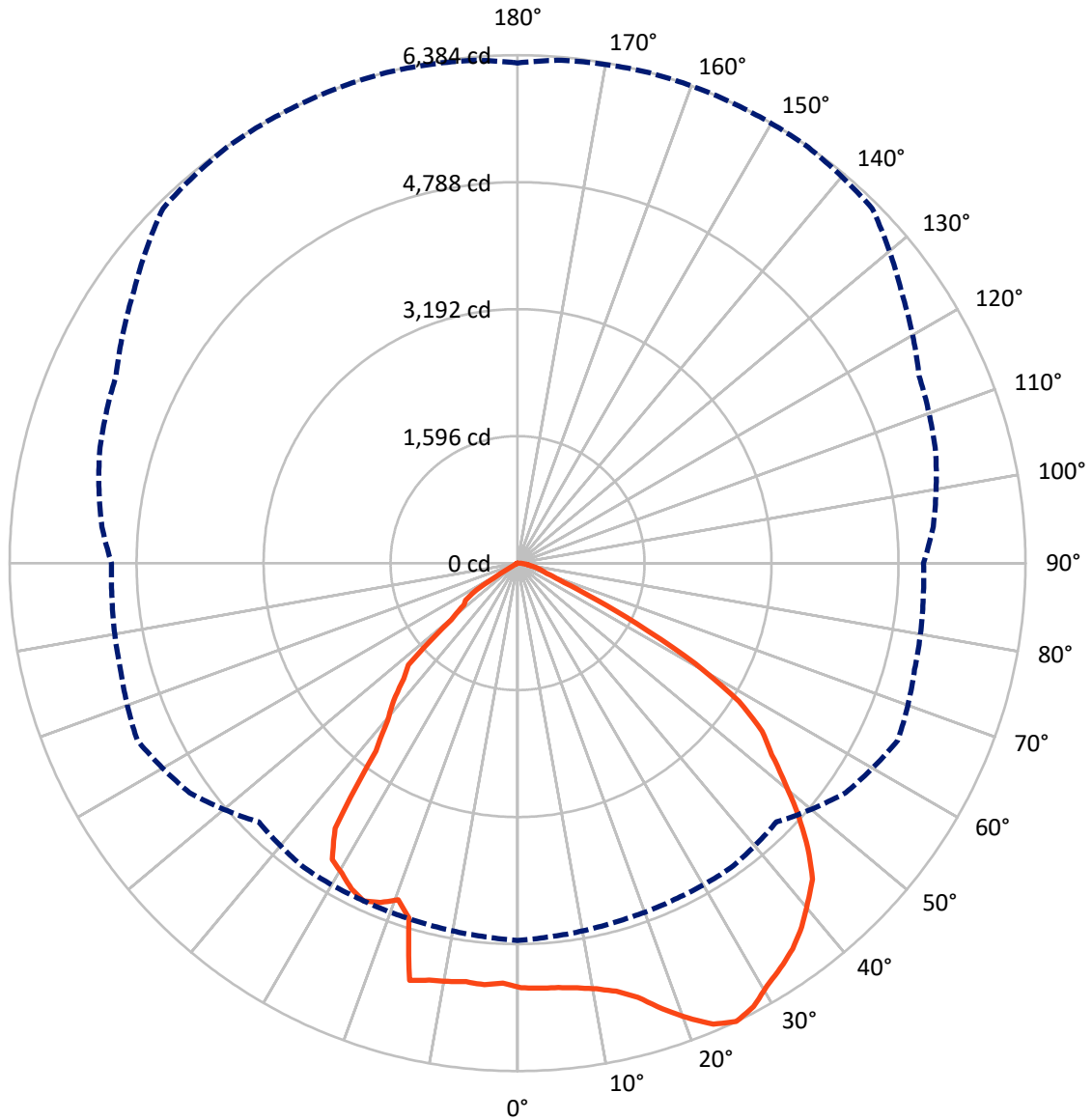
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7658.0	0.0	7658.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4711.5	0.0	4711.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	12369.5	0.0	12369.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.0	4.1
10°-20°	1563.5	12.6
20°-30°	2471.8	20.0
30°-40°	2792.1	22.6
40°-50°	2614.8	21.1
50°-60°	1802.7	14.6
60°-70°	484.3	3.9
70°-80°	100.9	0.8
80°-90°	27.3	0.2
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°	12369.5	100.0
0°-180°	12369.5	100.0



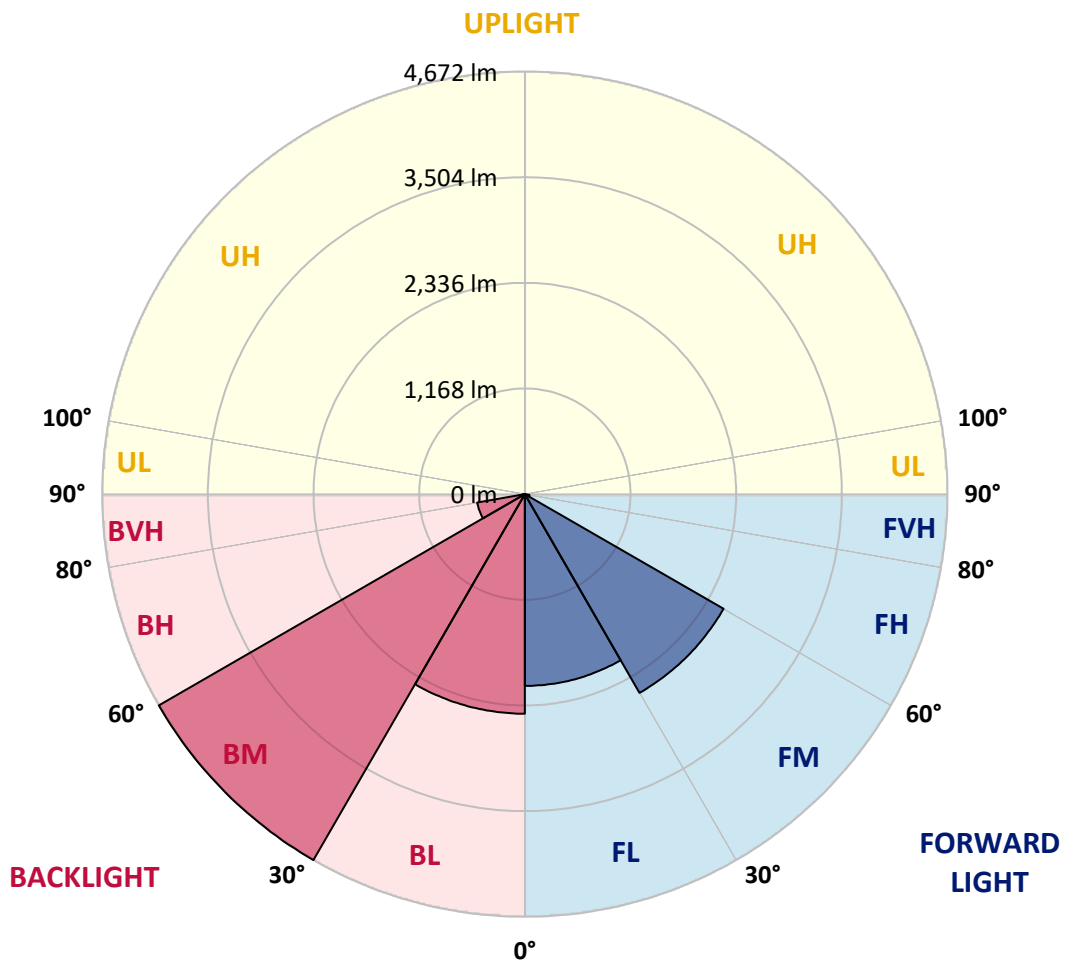
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2119.7	17.1			
FM (30°-60°)	2537.3	20.5			
FH (60°-80°)	50.8	0.4			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	2427.5	19.6	B3/2500		
BM (30°-60°)	4672.4	37.8	B3/5000		
BH (60°-80°)	534.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	23.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5337.2	5337.2	5337.2	5337.2	5337.2	5337.2	5337.2	5337.2	5337.2	5337.2
2.5°	5360.9	5326.3	5293.6	5282.7	5328.1	5377.2	5346.3	5348.1	5337.2	5357.2
5°	5400.8	5353.6	5331.8	5315.4	5322.7	5373.6	5329.9	5346.3	5328.1	5351.8
7.5°	5386.3	5353.6	5331.8	5300.9	5324.5	5384.5	5342.7	5344.5	5335.4	5357.2
10°	5377.2	5353.6	5326.3	5329.9	5357.2	5408.1	5375.4	5393.6	5380.8	5393.6
12.5°	5399.0	5373.6	5359.0	5359.0	5382.7	5440.8	5424.5	5440.8	5435.4	5446.3
15°	5193.6	5217.2	5355.4	5417.2	5464.5	5522.6	5515.4	5531.7	5535.4	5551.7
17.5°	4381.0	4357.4	4346.5	4664.6	5509.9	5689.9	5684.4	5682.6	5664.4	5651.7
20°	4488.3	4479.2	4466.5	4490.1	4584.6	5777.1	5813.5	5589.9	5524.5	5519.0
22.5°	4659.2	4644.6	4597.4	4599.2	4628.3	5022.7	5633.5	5429.9	5408.1	5395.4
25°	4742.8	4713.7	4675.5	4664.6	4673.7	4601.0	5031.8	5273.6	5166.3	5117.3
27.5°	4595.5	4597.4	4566.4	4595.5	4561.0	4233.8	4050.2	4968.2	4964.6	4942.7
30°	4484.6	4479.2	4442.8	4479.2	4241.1	3875.7	3797.5	4633.7	4595.5	4566.4
32.5°	4144.7	4148.3	4253.8	4395.6	4004.7	3715.7	3479.4	4139.3	4501.0	4484.6
35°	2964.9	2972.2	3346.7	4046.5	3646.6	3397.6	3379.4	3577.5	4351.9	4359.2
37.5°	2854.0	2854.0	2844.9	2959.5	3364.8	3268.5	3304.9	3284.9	3986.6	4004.7
40°	2774.0	2757.7	2745.0	2565.0	2339.6	3177.6	3203.1	3112.2	3768.4	3772.0
42.5°	2677.7	2659.5	2663.2	2330.5	2094.2	2952.2	2881.3	2759.5	3404.8	3408.5
45°	2501.4	2532.3	2554.1	2039.6	2021.5	2108.7	2657.7	2581.4	3159.4	3226.7
47.5°	1272.5	1299.8	1994.2	1876.0	1917.8	1874.2	2245.0	2246.9	2628.6	2852.2
50°	1154.3	1147.1	1148.9	1094.3	1770.6	1516.1	1623.3	2059.6	2105.1	2425.0
52.5°	1076.2	1074.4	963.5	856.2	1112.5	1334.3	1178.0	1490.6	1565.2	2054.2
55°	796.2	854.4	759.9	805.3	696.2	1068.9	1063.4	1345.2	1370.7	1647.0
57.5°	7.3	9.1	21.8	612.6	481.7	534.4	734.4	918.0	963.5	1283.4
60°	1.8	3.6	9.1	18.2	312.7	329.0	490.8	530.8	598.1	765.3
62.5°	0.0	0.0	3.6	9.1	16.4	134.5	156.3	170.9	263.6	390.8
65°	0.0	0.0	1.8	5.5	9.1	21.8	38.2	80.0	114.5	141.8
67.5°	0.0	0.0	1.8	3.6	7.3	10.9	21.8	30.9	49.1	83.6
70°	0.0	0.0	1.8	3.6	5.5	9.1	14.5	21.8	29.1	41.8
72.5°	0.0	0.0	1.8	3.6	3.6	10.9	10.9	16.4	21.8	27.3
75°	0.0	0.0	1.8	1.8	3.6	7.3	10.9	12.7	14.5	21.8
77.5°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	14.5	12.7	12.7
80°	0.0	0.0	1.8	5.5	5.5	9.1	10.9	14.5	9.1	9.1
82.5°	0.0	0.0	1.8	7.3	5.5	18.2	18.2	20.0	7.3	7.3
85°	0.0	0.0	5.5	3.6	10.9	18.2	16.4	10.9	9.1	5.5
87.5°	0.0	0.0	1.8	1.8	3.6	5.5	12.7	10.9	3.6	3.6
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
5337.2	0°	5337.2	5337.2	5337.2	5337.2	5337.2	5337.2	5337.2	5337.2	5337.2
5304.5	2.5°	5377.2	5353.6	5402.7	5397.2	5373.6	5362.7	5349.9	5339.0	5259.1
5308.1	5°	5379.0	5342.7	5402.7	5391.8	5388.1	5369.9	5359.0	5375.4	5302.7
5322.7	7.5°	5379.0	5342.7	5408.1	5411.8	5406.3	5391.8	5389.9	5400.8	5340.9
5348.1	10°	5415.4	5400.8	5455.4	5460.8	5453.6	5449.9	5440.8	5433.6	5369.9
5435.4	12.5°	5491.7	5462.7	5524.5	5540.8	5535.4	5544.5	5522.6	5533.5	5468.1
5524.5	15°	5584.4	5586.3	5633.5	5669.9	5666.2	5695.3	5662.6	5691.7	5644.4
5626.3	17.5°	5726.2	5746.2	5813.5	5868.0	5888.0	5909.8	5888.0	5897.1	5829.9
5513.6	20°	5577.2	5651.7	5975.3	6075.3	6117.1	6137.1	6100.7	6111.6	6044.4
5375.4	22.5°	5442.7	5539.0	5826.2	6138.9	6268.0	6308.0	6295.2	6293.4	6268.0
5102.7	25°	5244.5	5439.0	5568.1	5898.9	6304.3	6377.0	6384.3	6382.5	6344.3
4935.5	27.5°	5000.9	5044.5	5379.0	5580.8	6049.8	6326.1	6315.2	6262.5	6211.6
4588.3	30°	4690.1	4888.2	5039.1	5360.9	5720.8	6169.8	6169.8	6129.8	6077.1
4464.6	32.5°	4531.9	4788.2	4928.2	5044.5	5351.8	5995.3	6068.0	6026.2	5984.4
4368.3	35°	4448.3	4486.5	4813.7	4919.1	5179.1	5659.0	5953.5	5911.7	5880.8
4112.0	37.5°	4264.7	4353.8	4506.5	4788.2	4868.2	5384.5	5800.8	5779.0	5742.6
3779.3	40°	3855.7	4093.8	4328.3	4595.5	4679.2	5031.8	5615.3	5624.4	5575.4
3424.8	42.5°	3613.9	3775.7	4142.9	4322.9	4548.3	4804.6	5435.4	5449.9	5415.4
3244.9	45°	3330.3	3510.3	3768.4	4095.6	4402.8	4491.9	5117.3	5270.0	5240.9
2886.8	47.5°	3070.4	3215.8	3532.1	3862.9	4202.9	4190.2	4751.9	5039.1	4999.1
2612.3	50°	2701.3	2955.8	3104.9	3408.5	3915.7	3950.2	4362.8	4768.2	4735.5
2219.6	52.5°	2277.8	2597.7	2883.1	3161.2	3624.8	3706.6	4001.1	4491.9	4470.1
1696.1	55°	1990.5	2223.2	2545.0	2768.6	3272.1	3490.3	3730.2	4228.3	4217.4
1394.3	57.5°	1416.1	1865.1	2130.5	2443.2	2708.6	3103.1	3281.2	3692.1	3590.3
772.6	60°	959.8	1170.7	1494.3	1830.6	2008.7	2403.2	2568.6	2897.7	2870.4
461.7	62.5°	507.2	701.7	932.6	1101.6	1230.7	1614.3	1683.3	2037.8	2028.7
185.4	65°	223.6	296.3	505.4	592.6	725.3	903.5	963.5	1090.7	1059.8
90.9	67.5°	116.3	176.3	285.4	350.8	441.7	509.0	558.1	598.1	623.5
60.0	70°	70.9	129.1	176.3	243.6	303.6	358.1	396.3	450.8	483.5
30.9	72.5°	52.7	81.8	121.8	187.2	220.0	283.6	321.8	361.8	390.8
25.4	75°	29.1	54.5	98.2	147.2	176.3	230.9	265.4	292.7	301.8
14.5	77.5°	18.2	41.8	81.8	114.5	138.2	187.2	178.1	203.6	225.4
10.9	80°	12.7	30.9	63.6	94.5	96.3	120.0	141.8	163.6	178.1
7.3	82.5°	9.1	25.4	47.3	72.7	63.6	92.7	110.9	127.2	92.7
5.5	85°	7.3	18.2	23.6	43.6	36.4	65.4	56.4	54.5	36.4
3.6	87.5°	5.5	9.1	16.4	20.0	14.5	14.5	18.2	21.8	18.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5337.2
5204.5
5240.9
5271.8
5317.2
5409.9
5566.3
5771.7
5997.1
6186.2
6286.1
6171.6
6057.1
5949.8
5837.1
5706.2
5564.5
5411.8
5244.5
5028.2
4741.0
4484.6
4230.1
3579.4
2872.2
2030.5
1047.1
623.5
485.4
396.3
296.3
229.0
180.0
67.3
36.4
18.2
0.0

(END OF REPORT)