

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: P636985

Luminaire Tested: **IFLD-M-SA4B-950-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636985
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-950-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12163.9 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G2

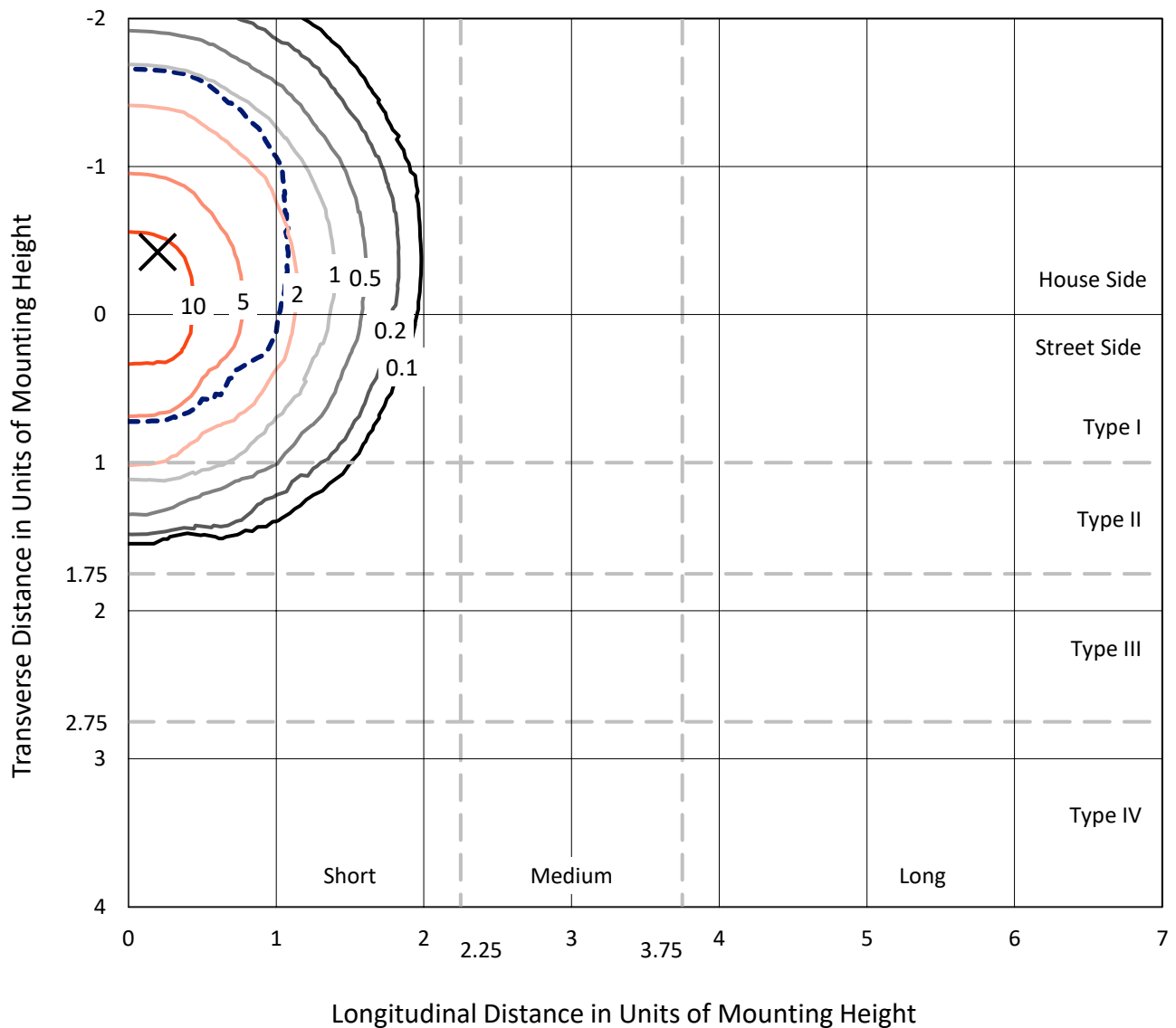
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

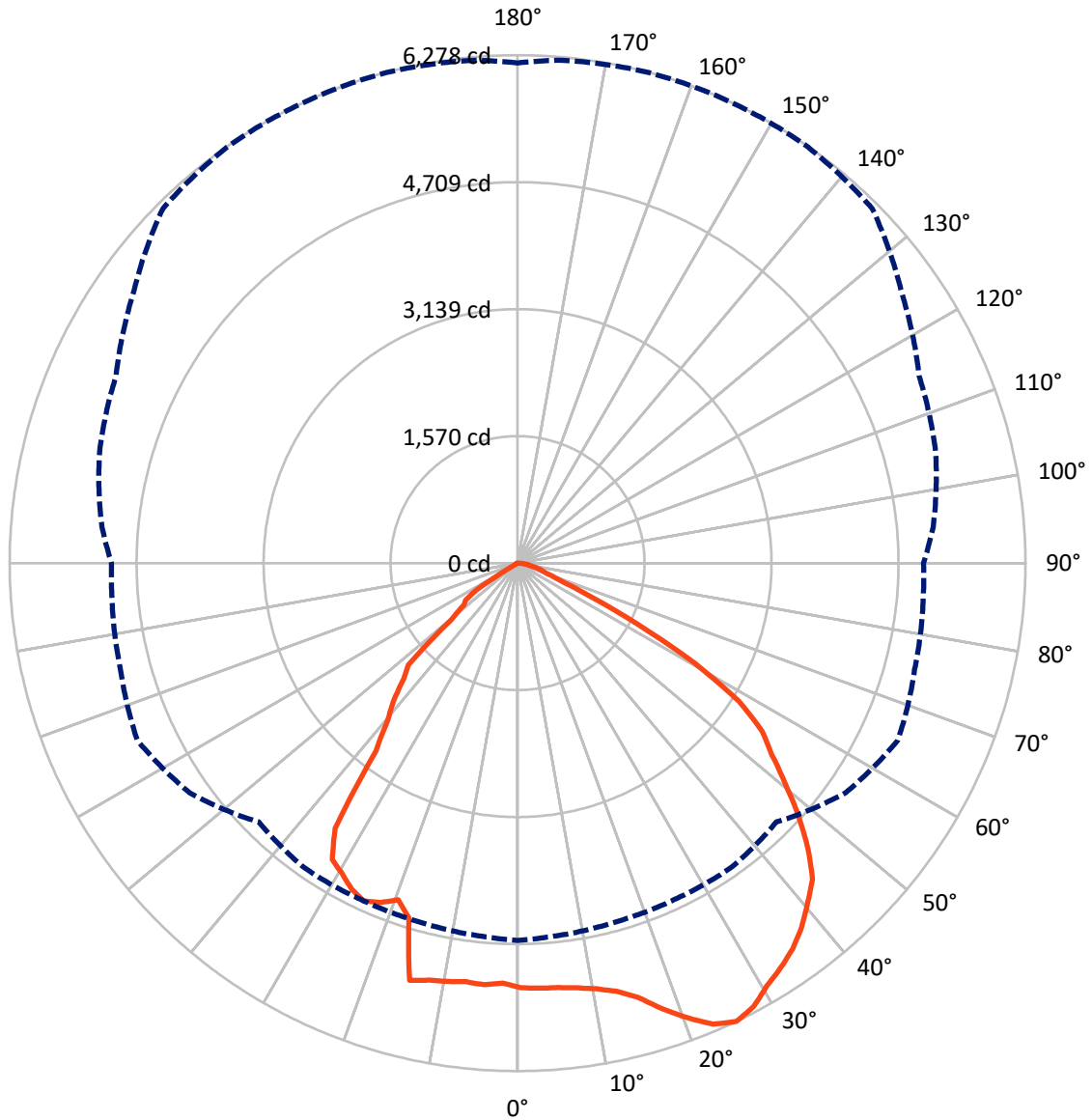
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.1 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	7530.7	0.0	7530.7
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4633.2	0.0	4633.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	12163.9	0.0	12163.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.5	4.1
10°-20°	1537.5	12.6
20°-30°	2430.7	20.0
30°-40°	2745.7	22.6
40°-50°	2571.4	21.1
50°-60°	1772.8	14.6
60°-70°	476.3	3.9
70°-80°	99.3	0.8
80°-90°	26.9	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°	12163.9	100.0
0°-180°	12163.9	100.0



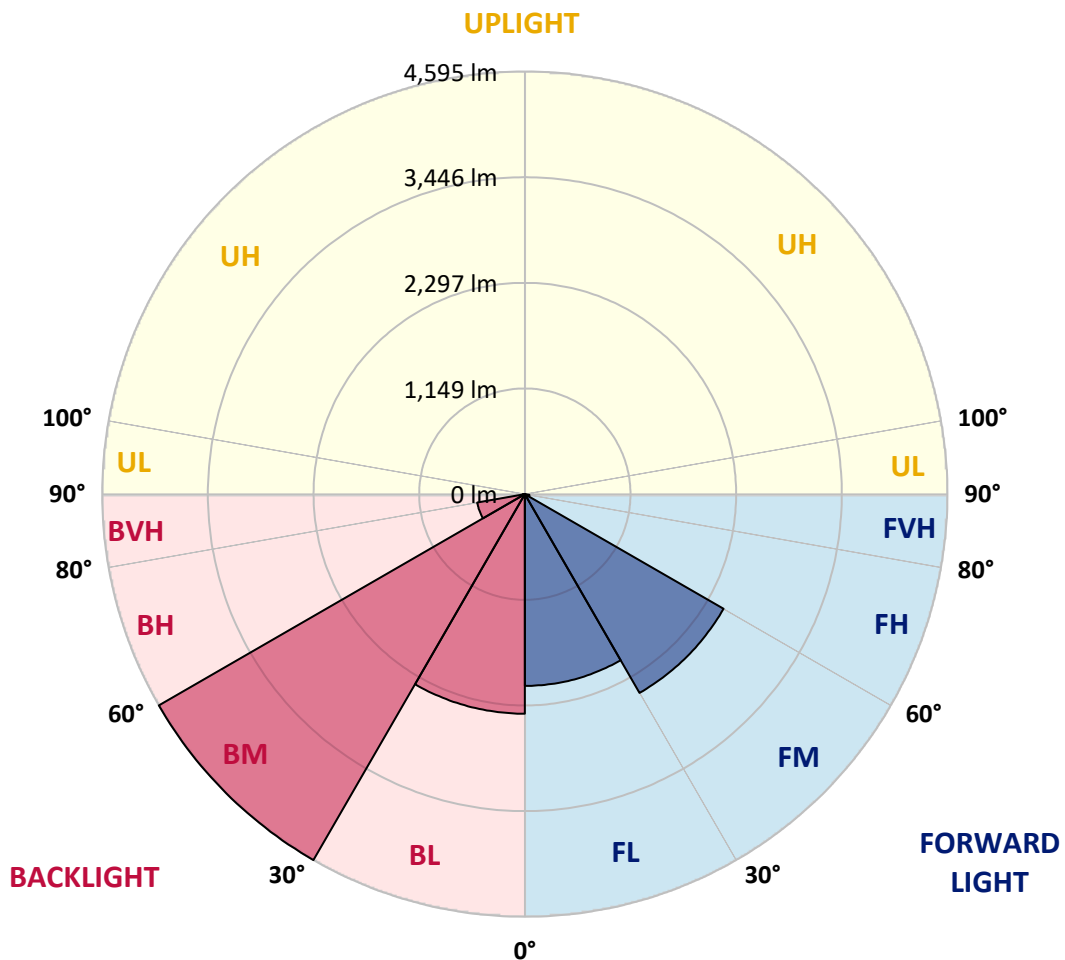
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2084.5	17.1			
FM (30°-60°)	2495.1	20.5			
FH (60°-80°)	50.0	0.4			G0/660
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	2387.2	19.6	B3/2500		
BM (30°-60°)	4594.7	37.8	B3/5000		
BH (60°-80°)	525.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	23.3	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°	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5
2.5°	5271.7	5237.8	5205.6	5194.9	5239.6	5287.8	5257.4	5259.2	5248.5	5268.2
5°	5311.1	5264.6	5243.1	5227.1	5234.2	5284.3	5241.4	5257.4	5239.6	5262.8
7.5°	5296.8	5264.6	5243.1	5212.7	5236.0	5295.0	5253.9	5255.7	5246.7	5268.2
10°	5287.8	5264.6	5237.8	5241.4	5268.2	5318.2	5286.0	5303.9	5291.4	5303.9
12.5°	5309.3	5284.3	5270.0	5270.0	5293.2	5350.4	5334.3	5350.4	5345.0	5355.8
15°	5107.3	5130.5	5266.4	5327.2	5373.6	5430.8	5423.7	5439.8	5443.4	5459.4
17.5°	4308.2	4285.0	4274.2	4587.1	5418.3	5595.3	5589.9	5588.2	5570.3	5557.8
20°	4413.7	4404.7	4392.2	4415.5	4508.4	5681.1	5716.9	5497.0	5432.6	5427.3
22.5°	4581.7	4567.4	4520.9	4522.7	4551.3	4939.2	5539.9	5339.7	5318.2	5305.7
25°	4663.9	4635.3	4597.8	4587.1	4596.0	4524.5	4948.2	5185.9	5080.5	5032.2
27.5°	4519.1	4520.9	4490.5	4519.1	4485.2	4163.4	3982.9	4885.6	4882.0	4860.6
30°	4410.1	4404.7	4369.0	4404.7	4170.6	3811.2	3734.4	4556.7	4519.1	4490.5
32.5°	4075.8	4079.4	4183.1	4322.5	3938.2	3653.9	3421.5	4070.4	4426.2	4410.1
35°	2915.6	2922.8	3291.0	3979.3	3586.0	3341.1	3323.2	3518.1	4279.6	4286.8
37.5°	2806.6	2806.6	2797.7	2910.3	3308.9	3214.2	3249.9	3230.3	3920.3	3938.2
40°	2727.9	2711.8	2699.3	2522.4	2300.7	3124.8	3149.8	3060.4	3705.8	3709.3
42.5°	2633.2	2615.3	2618.9	2291.8	2059.4	2903.1	2833.4	2713.6	3348.2	3351.8
45°	2459.8	2490.2	2511.6	2005.7	1987.9	2073.7	2613.5	2538.4	3106.9	3173.1
47.5°	1251.3	1278.2	1961.0	1844.8	1886.0	1843.1	2207.7	2209.5	2584.9	2804.8
50°	1135.1	1128.0	1129.8	1076.2	1741.2	1490.9	1596.4	2025.4	2070.1	2384.7
52.5°	1058.3	1056.5	947.4	842.0	1094.0	1312.1	1158.4	1465.9	1539.2	2020.0
55°	783.0	840.2	747.2	791.9	684.7	1051.1	1045.8	1322.9	1347.9	1619.6
57.5°	7.2	8.9	21.5	602.4	473.7	525.6	722.2	902.8	947.4	1262.1
60°	1.8	3.6	8.9	17.9	307.5	323.6	482.7	522.0	588.1	752.6
62.5°	0.0	0.0	3.6	8.9	16.1	132.3	153.7	168.0	259.2	384.3
65°	0.0	0.0	1.8	5.4	8.9	21.5	37.5	78.7	112.6	139.4
67.5°	0.0	0.0	1.8	3.6	7.2	10.7	21.5	30.4	48.3	82.2
70°	0.0	0.0	1.8	3.6	5.4	8.9	14.3	21.5	28.6	41.1
72.5°	0.0	0.0	1.8	3.6	3.6	10.7	10.7	16.1	21.5	26.8
75°	0.0	0.0	1.8	1.8	3.6	7.2	10.7	12.5	14.3	21.5
77.5°	0.0	0.0	1.8	3.6	5.4	7.2	8.9	14.3	12.5	12.5
80°	0.0	0.0	1.8	5.4	5.4	8.9	10.7	14.3	8.9	8.9
82.5°	0.0	0.0	1.8	7.2	5.4	17.9	17.9	19.7	7.2	7.2
85°	0.0	0.0	5.4	3.6	10.7	17.9	16.1	10.7	8.9	5.4
87.5°	0.0	0.0	1.8	1.8	3.6	5.4	12.5	10.7	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°
5248.5	0°	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5	5248.5
5216.3	2.5°	5287.8	5264.6	5312.9	5307.5	5284.3	5273.5	5261.0	5250.3	5171.6
5219.9	5°	5289.6	5253.9	5312.9	5302.1	5298.6	5280.7	5270.0	5286.0	5214.5
5234.2	7.5°	5289.6	5253.9	5318.2	5321.8	5316.4	5302.1	5300.3	5311.1	5252.1
5259.2	10°	5325.4	5311.1	5364.7	5370.1	5362.9	5359.3	5350.4	5343.2	5280.7
5345.0	12.5°	5400.5	5371.8	5432.6	5448.7	5443.4	5452.3	5430.8	5441.6	5377.2
5432.6	15°	5491.6	5493.4	5539.9	5575.6	5572.1	5600.7	5568.5	5597.1	5550.6
5532.7	17.5°	5631.1	5650.7	5716.9	5770.5	5790.2	5811.6	5790.2	5799.1	5733.0
5421.9	20°	5484.5	5557.8	5876.0	5974.3	6015.4	6035.1	5999.3	6010.0	5943.9
5286.0	22.5°	5352.2	5446.9	5729.4	6036.9	6163.8	6203.1	6190.6	6188.8	6163.8
5017.9	25°	5157.3	5348.6	5475.5	5800.9	6199.5	6271.0	6278.2	6276.4	6238.9
4853.4	27.5°	4917.8	4960.7	5289.6	5488.0	5949.3	6221.0	6210.3	6158.4	6108.4
4512.0	30°	4612.1	4807.0	4955.3	5271.7	5625.7	6067.2	6067.2	6027.9	5976.1
4390.4	32.5°	4456.6	4708.6	4846.3	4960.7	5262.8	5895.6	5967.1	5926.0	5884.9
4295.7	35°	4374.3	4411.9	4733.7	4837.3	5093.0	5564.9	5854.5	5813.4	5783.0
4043.6	37.5°	4193.8	4281.4	4431.6	4708.6	4787.3	5295.0	5704.4	5682.9	5647.1
3716.5	40°	3791.6	4025.8	4256.4	4519.1	4601.4	4948.2	5522.0	5530.9	5482.7
3367.9	42.5°	3553.8	3712.9	4074.0	4251.0	4472.7	4724.7	5345.0	5359.3	5325.4
3190.9	45°	3275.0	3451.9	3705.8	4027.5	4329.7	4417.3	5032.2	5182.4	5153.8
2838.8	47.5°	3019.3	3162.3	3473.4	3798.7	4133.0	4120.5	4672.9	4955.3	4916.0
2568.8	50°	2656.4	2906.7	3053.3	3351.8	3850.6	3884.5	4290.3	4689.0	4656.8
2182.7	52.5°	2239.9	2554.5	2835.2	3108.7	3564.5	3645.0	3934.6	4417.3	4395.8
1667.9	55°	1957.5	2186.3	2502.7	2722.6	3217.7	3432.3	3668.2	4158.0	4147.3
1371.1	57.5°	1392.6	1834.1	2095.1	2402.6	2663.6	3051.5	3226.7	3630.7	3530.6
759.7	60°	943.9	1151.2	1469.4	1800.2	1975.3	2363.3	2525.9	2849.5	2822.7
454.1	62.5°	498.8	690.0	917.1	1083.3	1210.2	1587.4	1655.4	2003.9	1995.0
182.3	65°	219.9	291.4	497.0	582.8	713.3	888.5	947.4	1072.6	1042.2
89.4	67.5°	114.4	173.4	280.7	345.0	434.4	500.5	548.8	588.1	613.2
59.0	70°	69.7	126.9	173.4	239.5	298.5	352.2	389.7	443.3	475.5
30.4	72.5°	51.8	80.4	119.8	184.1	216.3	278.9	316.4	355.7	384.3
25.0	75°	28.6	53.6	96.5	144.8	173.4	227.0	261.0	287.8	296.7
14.3	77.5°	17.9	41.1	80.4	112.6	135.9	184.1	175.2	200.2	221.7
10.7	80°	12.5	30.4	62.6	93.0	94.7	118.0	139.4	160.9	175.2
7.2	82.5°	8.9	25.0	46.5	71.5	62.6	91.2	109.0	125.1	91.2
5.4	85°	7.2	17.9	23.2	42.9	35.8	64.4	55.4	53.6	35.8
3.6	87.5°	5.4	8.9	16.1	19.7	14.3	14.3	17.9	21.5	17.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5248.5
5118.0
5153.8
5184.1
5228.8
5320.0
5473.7
5675.7
5897.4
6083.3
6181.6
6069.0
5956.4
5850.9
5740.1
5611.4
5472.0
5321.8
5157.3
4944.6
4662.2
4410.1
4159.8
3519.9
2824.5
1996.8
1029.7
613.2
477.3
389.7
291.4
225.2
177.0
66.1
35.8
17.9
0.0

(END OF REPORT)