

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: P484801

Luminaire Tested: **IFLD-S-SA6A-740-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484801
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

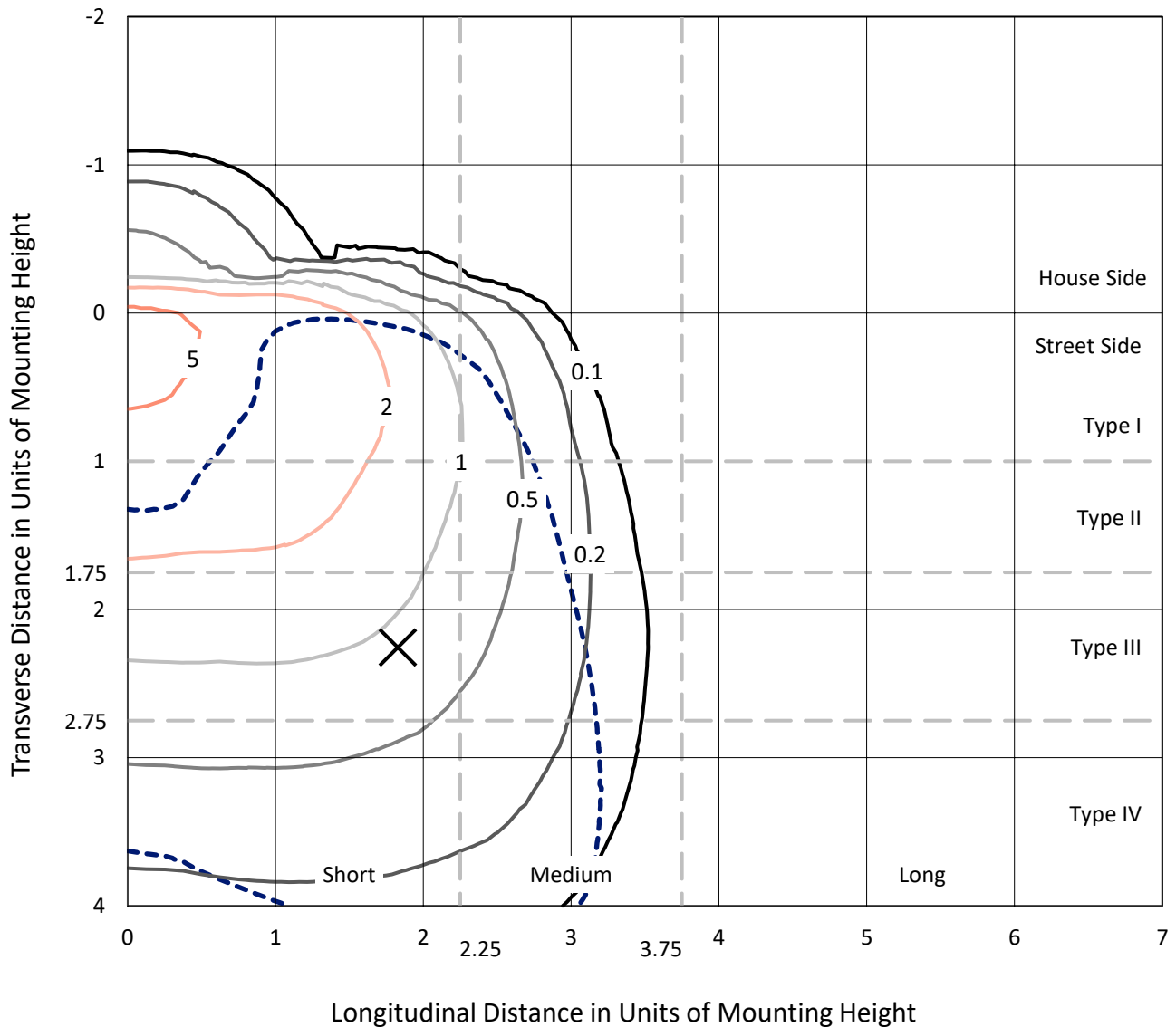
Lumens per Lamp: N/A
Luminaire Lumens: 22296.9 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 189.6
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: 24 FT

REPORT NUMBER: P484801
 CATALOG NUMBER: IFLD-S-SA6A-740-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

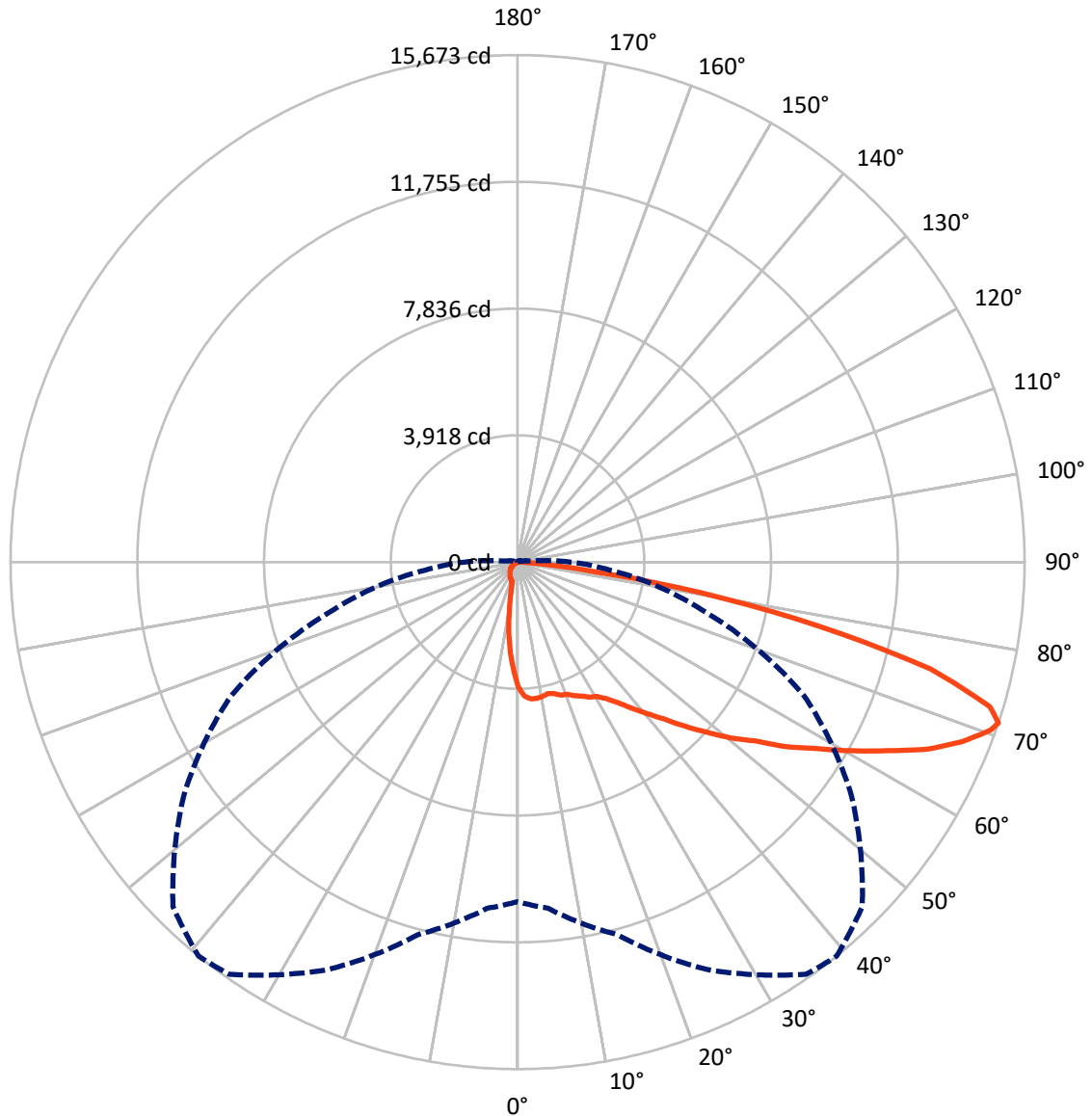
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P484801
CATALOG NUMBER: IFLD-S-SA6A-740-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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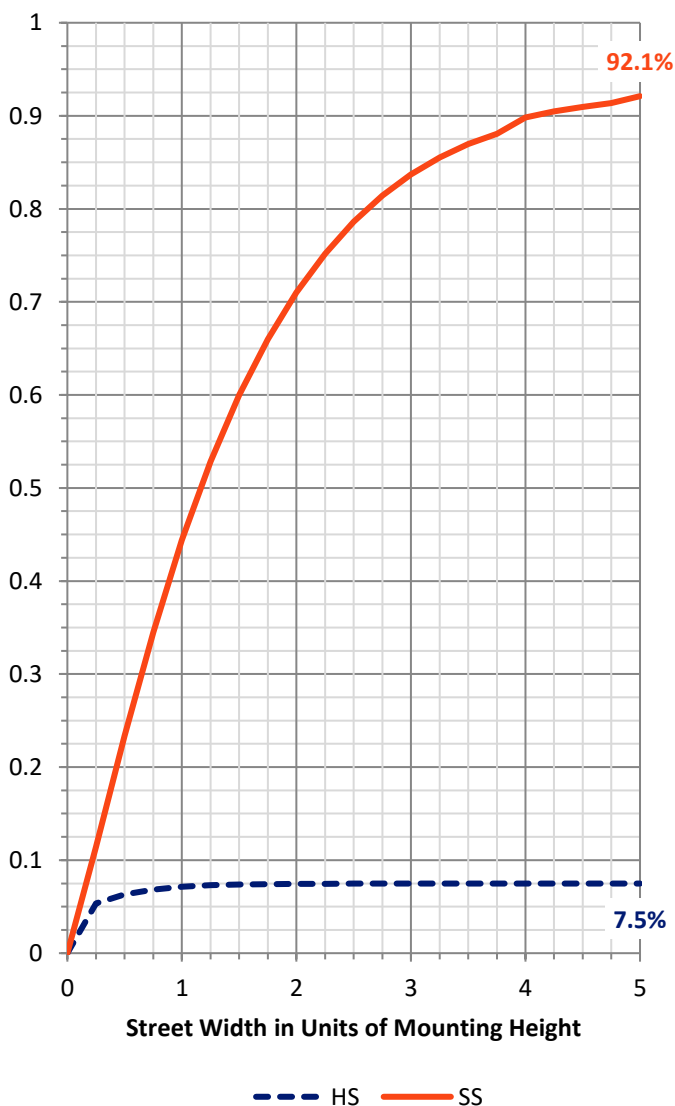
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1678.6	0.0	1678.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	20618.3	0.0	20618.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	22296.9	0.0	22296.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.5	1.5
10°-20°	798.6	3.6
20°-30°	1282.1	5.7
30°-40°	1962.6	8.8
40°-50°	3150.2	14.1
50°-60°	4627.2	20.8
60°-70°	5827.8	26.1
70°-80°	3889.3	17.4
80°-90°	434.6	1.9
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°	22296.9	100.0
0°-180°	22296.9	100.0

Coefficient of Utilization



REPORT NUMBER: P484801

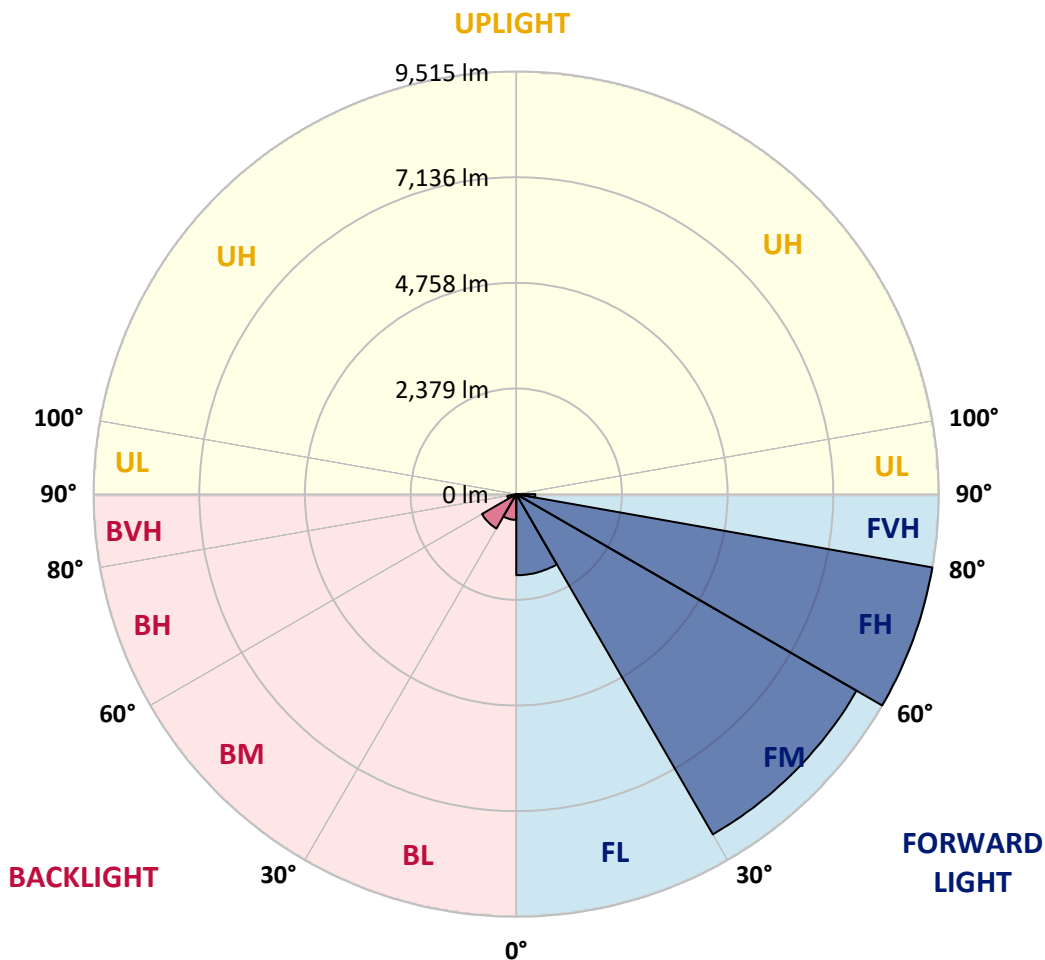
CATALOG NUMBER: IFLD-S-SA6A-740-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1825.6	8.2			
FM (30°-60°)	8847.7	39.7			
FH (60°-80°)	9515.0	42.7			G4/12000
FVH (80°-90°)	429.9	1.9			G3/500
BL (0°-30°)	579.5	2.6	B2/1000		
BM (30°-60°)	892.3	4.0	B1/1000		
BH (60°-80°)	202.0	0.9	B1/500		G1/500
BVH (80°-90°)	4.8	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 IV Short





REPORT NUMBER: P484801

CATALOG NUMBER: IFLD-S-SA6A-740-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9
2.5°	4182.1	4223.1	4182.1	4164.6	4147.0	4150.0	4103.2	4112.0	4056.4	3983.3	3924.8
5°	4313.7	4369.3	4325.4	4305.0	4302.0	4246.5	4223.1	4167.5	4100.3	3986.2	3916.0
7.5°	4302.0	4290.4	4310.8	4293.3	4255.3	4255.3	4228.9	4150.0	4082.7	3954.0	3834.1
10°	4214.3	4249.4	4231.9	4211.4	4220.2	4223.1	4173.4	4117.8	4097.3	3968.6	3772.7
12.5°	4205.5	4147.0	4211.4	4214.3	4176.3	4173.4	4167.5	4152.9	4088.6	3971.6	3787.3
15°	4176.3	4152.9	4217.2	4220.2	4228.9	4220.2	4228.9	4217.2	4152.9	4085.6	3851.7
17.5°	4199.7	4173.4	4264.0	4307.9	4287.4	4328.4	4313.7	4261.1	4205.5	4126.6	3913.1
20°	4205.5	4243.6	4343.0	4360.5	4424.9	4357.6	4354.7	4299.1	4264.0	4179.2	3951.1
22.5°	4313.7	4331.3	4454.1	4492.1	4495.1	4486.3	4413.2	4348.8	4334.2	4228.9	3959.9
25°	4477.5	4538.9	4594.5	4617.9	4626.7	4585.7	4509.7	4427.8	4392.7	4325.4	4050.5
27.5°	4767.1	4729.0	4778.8	4813.9	4714.4	4729.0	4632.5	4562.3	4512.6	4454.1	4155.8
30°	5024.4	4989.3	4992.2	4986.4	4901.6	4822.6	4796.3	4673.5	4612.1	4635.5	4319.6
32.5°	5255.5	5179.4	5243.8	5214.5	5056.6	5033.2	5012.7	4857.7	4869.4	4977.6	4565.3
35°	5469.0	5442.6	5495.3	5442.6	5337.3	5331.5	5311.0	5176.5	5240.8	5395.8	4986.4
37.5°	5664.9	5673.7	5738.0	5711.7	5720.5	5726.3	5714.6	5571.3	5755.6	6103.6	5477.7
40°	5846.2	5834.5	5992.5	6074.3	6091.9	6156.2	6156.2	6121.1	6404.8	6796.7	6159.2
42.5°	6039.2	6068.5	6273.2	6410.7	6577.4	6632.9	6709.0	6726.5	7165.2	7612.7	6855.2
45°	6355.1	6305.4	6565.7	6890.3	7036.5	7232.5	7349.5	7448.9	7978.2	8592.4	7551.3
47.5°	6755.8	6656.3	6884.4	7355.3	7694.6	7855.4	8066.0	8197.6	8715.2	9349.9	8209.3
50°	7200.3	7097.9	7209.1	7858.3	8253.2	8545.6	8814.7	8981.4	9607.2	10198.0	8688.9
52.5°	7703.3	7609.7	7627.3	8381.8	8963.8	9177.3	9531.2	9779.8	10402.7	10709.8	8858.5
55°	8238.5	8215.1	8159.6	8893.6	9586.8	10066.4	10279.9	10578.2	11218.7	10987.6	9042.8
57.5°	8776.6	8703.5	8782.5	9572.1	10587.0	10873.6	11169.0	11347.4	11672.0	11230.4	8972.6
60°	9282.6	9288.5	9399.6	10309.1	11438.0	11844.5	12110.7	12002.5	12137.0	11335.7	8811.7
62.5°	9709.6	9697.9	9978.6	11136.8	12564.0	12838.9	13037.8	12555.2	12353.4	11438.0	8531.0
65°	10092.7	10224.3	10665.9	12122.4	13622.7	13938.5	13818.6	13078.7	12564.0	11136.8	7741.4
67.5°	10382.2	10578.2	11344.4	13049.5	14593.6	14815.9	14649.2	13476.4	12315.4	9955.3	6305.4
70°	10551.9	10750.7	11829.9	13821.5	15368.6	15529.5	15137.6	13169.4	10864.8	7209.1	3933.6
71°	10499.2	10742.0	11923.5	13903.4	15552.9	15672.8	15064.5	12602.0	9771.0	6036.3	2869.0
72.5°	10022.5	10250.6	11534.5	13844.9	15330.6	15257.5	14494.2	11239.1	7691.6	3848.7	1482.8
75°	7364.1	7609.7	9899.7	11976.1	13684.1	13181.1	11730.5	7887.6	4012.5	1178.6	432.8
77.5°	3667.4	3708.4	6144.5	8694.8	10037.1	9537.0	7861.3	4398.6	1500.3	348.0	216.4
80°	1690.4	1702.1	2304.6	4503.8	6068.5	5711.7	4404.4	2170.0	678.5	184.2	169.6
82.5°	1152.3	1169.8	1389.2	1865.9	2635.0	2222.7	1784.0	1389.2	389.0	111.1	166.7
85°	210.6	193.0	777.9	988.5	1017.8	690.2	617.1	1202.0	146.2	64.3	146.2
87.5°	0.0	2.9	108.2	403.6	362.6	160.9	210.6	292.5	14.6	20.5	26.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: IFLD-S-SA6A-740-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9
2.5°	3875.1	3842.9	3734.7	3614.8	3506.6	3421.8	3313.5	3263.8	3184.9	3141.0	3138.1
5°	3819.5	3731.8	3544.6	3342.8	3117.6	2930.4	2722.8	2605.8	2471.3	2430.3	2421.5
7.5°	3725.9	3600.2	3325.2	3041.6	2696.5	2366.0	2111.5	1839.6	1672.9	1602.7	1576.3
10°	3667.4	3515.3	3141.0	2716.9	2234.4	1769.4	1412.6	1123.0	971.0	897.8	880.3
12.5°	3667.4	3503.6	2991.8	2406.9	1766.4	1210.8	874.4	707.7	658.0	640.5	640.5
15°	3658.6	3480.2	2848.5	2088.1	1307.3	813.0	652.2	617.1	611.2	608.3	605.4
17.5°	3702.5	3439.3	2702.3	1746.0	924.2	640.5	599.5	593.7	587.8	587.8	582.0
20°	3734.7	3415.9	2526.8	1383.3	690.2	593.7	576.1	567.4	564.4	561.5	567.4
22.5°	3708.4	3380.8	2310.4	1035.3	602.5	564.4	552.7	544.0	538.1	538.1	541.0
25°	3758.1	3348.6	2094.0	780.9	564.4	538.1	526.4	520.6	517.6	514.7	508.9
27.5°	3825.3	3363.3	1836.6	628.8	532.3	511.8	500.1	494.3	491.3	485.5	491.3
30°	3907.2	3360.3	1552.9	549.8	503.0	482.6	470.9	467.9	462.1	459.2	462.1
32.5°	4047.6	3436.4	1260.5	508.9	470.9	453.3	441.6	438.7	435.8	432.8	429.9
35°	4348.8	3530.0	985.6	476.7	441.6	421.1	412.4	406.5	403.6	400.7	397.7
37.5°	4720.3	3737.6	751.6	447.5	412.4	391.9	383.1	380.2	368.5	365.6	362.6
40°	5185.3	3959.9	579.1	415.3	386.0	365.6	356.8	348.0	333.4	327.6	321.7
42.5°	5764.3	4176.3	476.7	386.0	356.8	342.2	327.6	312.9	301.2	289.5	283.7
45°	6343.4	4427.8	418.2	359.7	333.4	315.9	304.2	283.7	263.2	245.7	242.7
47.5°	6826.0	4518.5	383.1	330.5	310.0	295.4	277.8	251.5	222.3	204.7	201.8
50°	7185.7	4465.8	348.0	301.2	283.7	269.1	245.7	213.5	184.2	166.7	160.9
52.5°	7255.9	4234.8	315.9	277.8	257.4	239.8	213.5	178.4	146.2	128.7	125.8
55°	7206.2	3851.7	289.5	257.4	234.0	207.6	178.4	143.3	114.1	96.5	93.6
57.5°	7103.8	3398.4	260.3	231.0	204.7	178.4	146.2	117.0	84.8	67.3	67.3
60°	6755.8	2781.3	231.0	201.8	175.5	152.1	119.9	84.8	58.5	43.9	40.9
62.5°	6270.3	2137.9	201.8	172.5	152.1	125.8	93.6	61.4	35.1	23.4	23.4
65°	5384.1	1497.4	169.6	143.3	125.8	102.4	70.2	38.0	20.5	8.8	8.8
67.5°	4091.5	927.1	140.4	119.9	108.2	81.9	49.7	23.4	8.8	2.9	0.0
70°	2348.4	482.6	111.1	96.5	84.8	61.4	35.1	11.7	5.8	0.0	0.0
71°	1640.7	356.8	99.4	84.8	76.0	55.6	29.2	8.8	2.9	0.0	0.0
72.5°	821.8	236.9	84.8	70.2	61.4	43.9	23.4	8.8	2.9	0.0	0.0
75°	292.5	152.1	58.5	46.8	43.9	32.2	14.6	5.8	2.9	0.0	0.0
77.5°	201.8	122.8	40.9	29.2	29.2	20.5	8.8	2.9	2.9	0.0	0.0
80°	184.2	67.3	26.3	17.5	14.6	11.7	5.8	2.9	0.0	0.0	0.0
82.5°	184.2	49.7	14.6	11.7	8.8	5.8	2.9	0.0	0.0	0.0	0.0
85°	128.7	26.3	8.8	8.8	5.8	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	20.5	8.8	5.8	2.9	2.9	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	0.0

(END OF REPORT)