

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: P484660

Luminaire Tested: **IFLD-L-SA8A-722-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484660
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-722-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

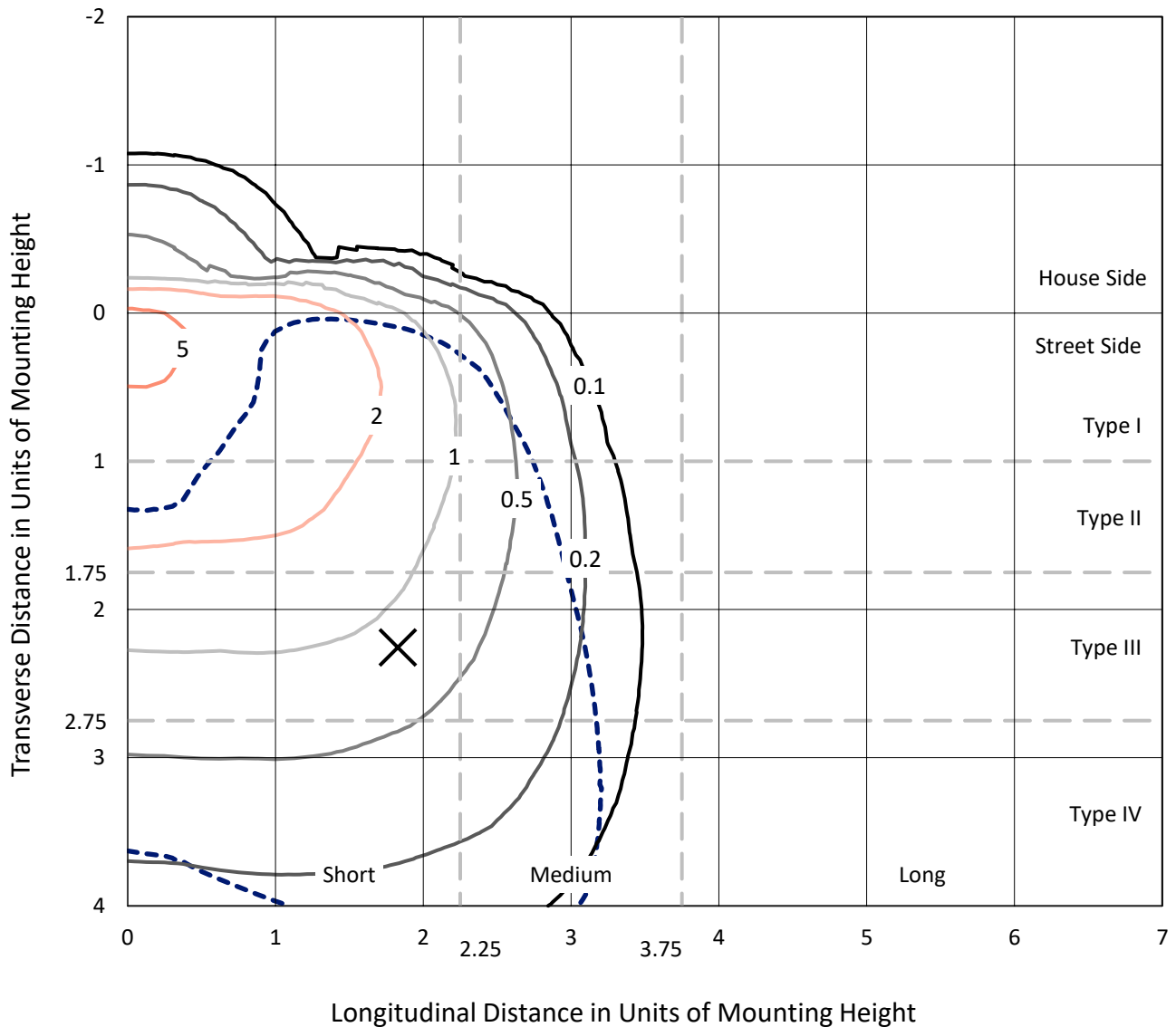
Lumens per Lamp: N/A
Luminaire Lumens: 20845.6 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8
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: P484660
 CATALOG NUMBER: IFLD-L-SA8A-722-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

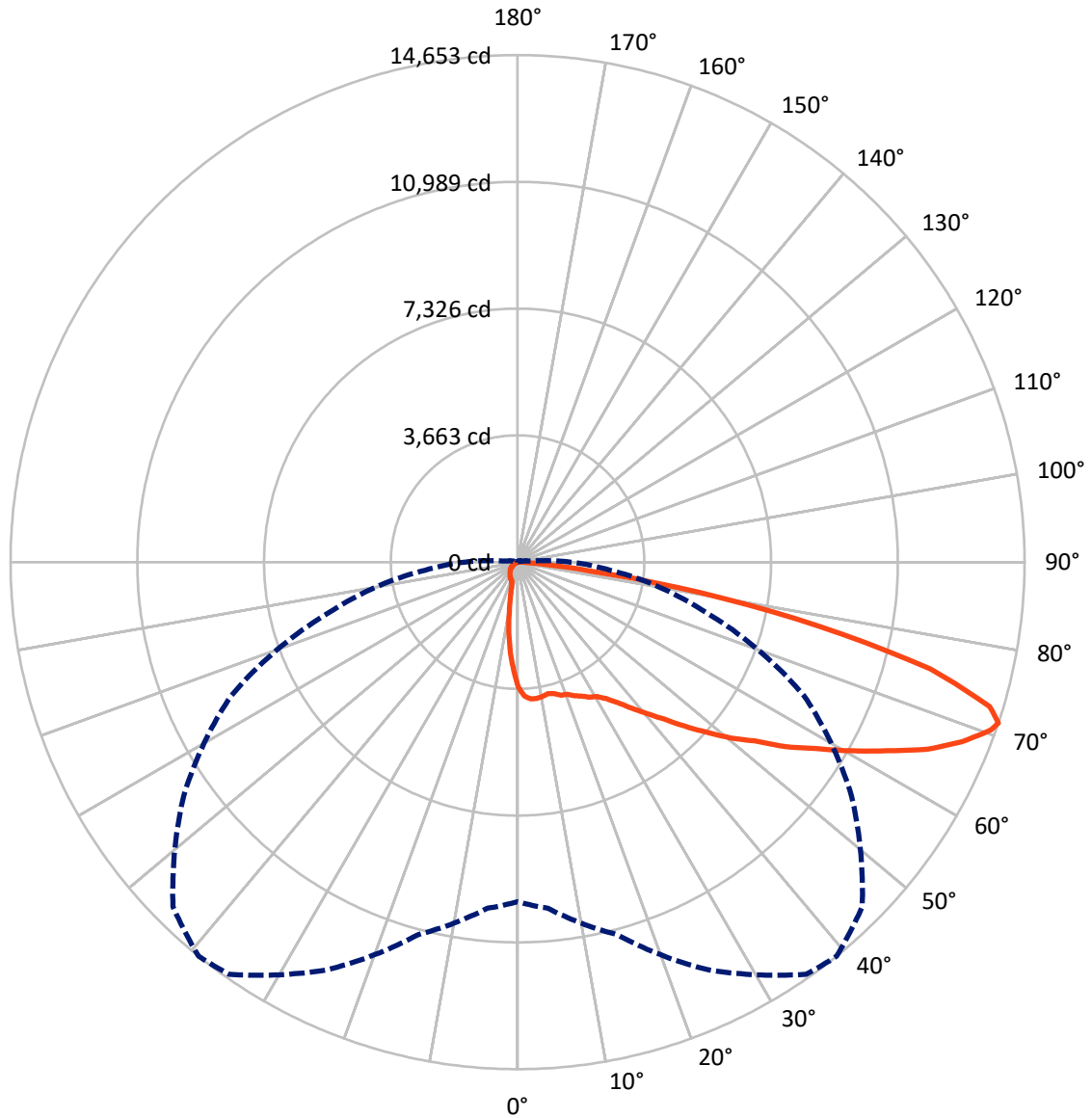
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P484660
CATALOG NUMBER: IFLD-L-SA8A-722-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484660
 CATALOG NUMBER: IFLD-L-SA8A-722-U-SL4-HSS

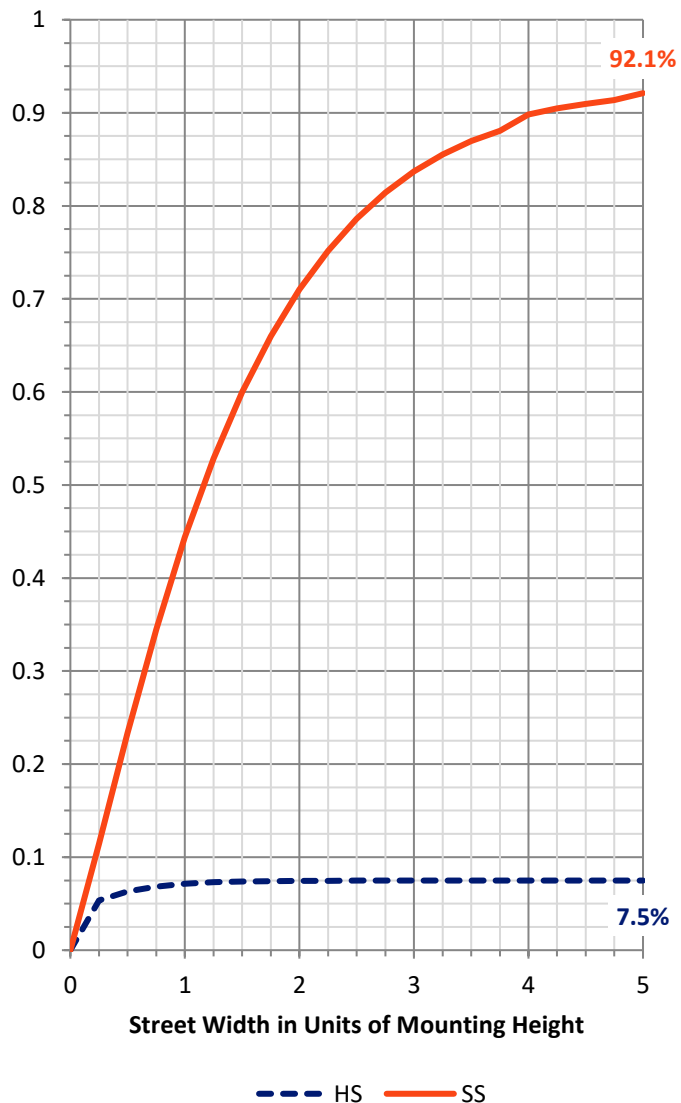
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1569.3	0.0	1569.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	19276.2	0.0	19276.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	20845.6	0.0	20845.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.4	1.5
10°-20°	746.7	3.6
20°-30°	1198.6	5.8
30°-40°	1834.8	8.8
40°-50°	2945.2	14.1
50°-60°	4326.0	20.8
60°-70°	5448.4	26.1
70°-80°	3636.1	17.4
80°-90°	406.4	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°	20845.6	100.0
0°-180°	20845.6	100.0

Coefficient of Utilization



REPORT NUMBER: P484660

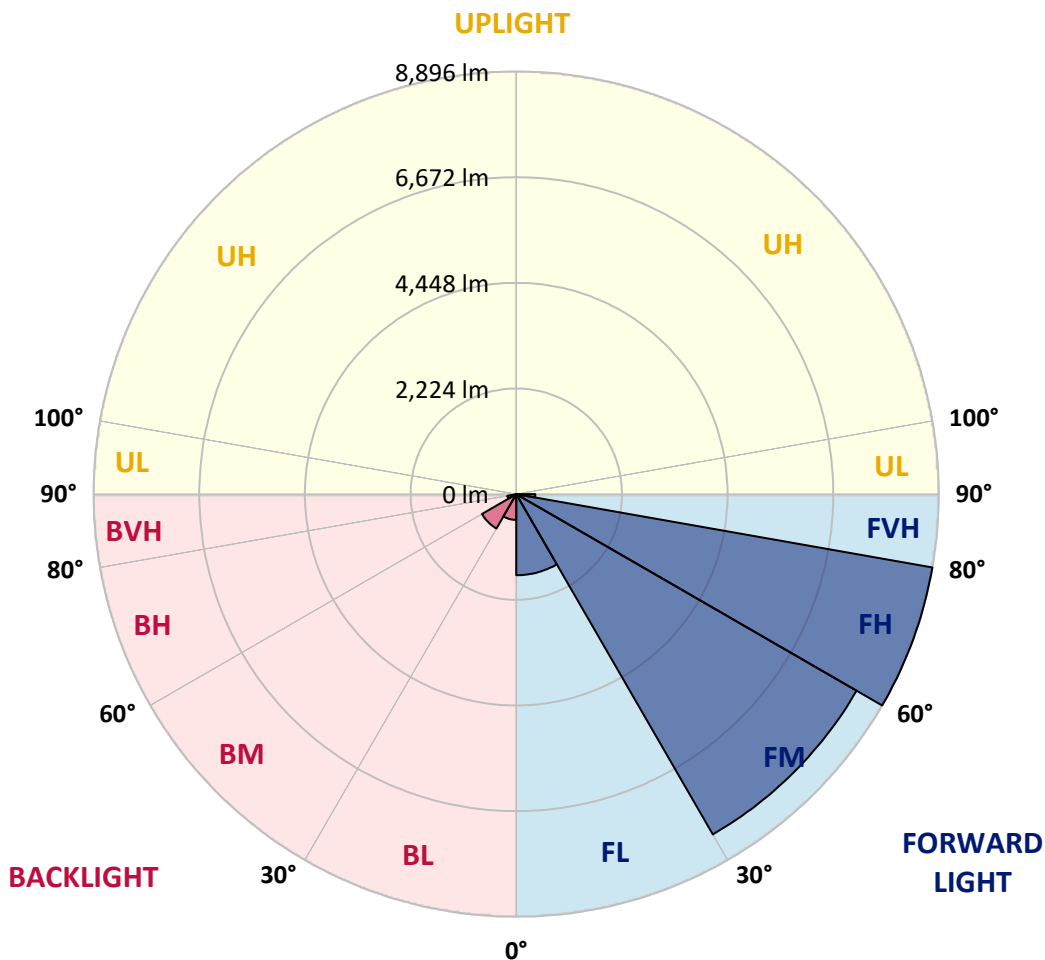
CATALOG NUMBER: IFLD-L-SA8A-722-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1706.8	8.2			
FM (30°-60°)	8271.8	39.7			
FH (60°-80°)	8895.7	42.7			G4/12000
FVH (80°-90°)	401.9	1.9			G3/500
BL (0°-30°)	541.8	2.6	B2/1000		
BM (30°-60°)	834.2	4.0	B1/1000		
BH (60°-80°)	188.9	0.9	B1/500		G1/500
BVH (80°-90°)	4.5	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: P484660

CATALOG NUMBER: IFLD-L-SA8A-722-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3628.3	3628.3	3628.3	3628.3	3628.3	3628.3	3628.3	3628.3	3628.3	3628.3	3628.3
2.5°	3909.9	3948.2	3909.9	3893.5	3877.1	3879.8	3836.1	3844.3	3792.4	3724.0	3669.3
5°	4033.0	4084.9	4043.9	4024.8	4022.0	3970.1	3948.2	3896.3	3833.4	3726.7	3661.1
7.5°	4022.0	4011.1	4030.2	4013.8	3978.3	3978.3	3953.7	3879.8	3817.0	3696.7	3584.6
10°	3940.0	3972.8	3956.4	3937.3	3945.5	3948.2	3901.7	3849.8	3830.6	3710.3	3527.1
12.5°	3931.8	3877.1	3937.3	3940.0	3904.5	3901.7	3896.3	3882.6	3822.4	3713.1	3540.8
15°	3904.5	3882.6	3942.7	3945.5	3953.7	3945.5	3953.7	3942.7	3882.6	3819.7	3601.0
17.5°	3926.3	3901.7	3986.5	4027.5	4008.4	4046.6	4033.0	3983.7	3931.8	3858.0	3658.4
20°	3931.8	3967.3	4060.3	4076.7	4136.9	4074.0	4071.2	4019.3	3986.5	3907.2	3693.9
22.5°	4033.0	4049.4	4164.2	4199.7	4202.5	4194.3	4125.9	4065.8	4052.1	3953.7	3702.1
25°	4186.1	4243.5	4295.4	4317.3	4325.5	4287.2	4216.2	4139.6	4106.8	4043.9	3786.9
27.5°	4456.8	4421.2	4467.7	4500.5	4407.6	4421.2	4331.0	4265.4	4218.9	4164.2	3885.3
30°	4697.4	4664.6	4667.3	4661.8	4582.5	4508.7	4484.1	4369.3	4311.9	4333.7	4038.4
32.5°	4913.4	4842.3	4902.4	4875.1	4727.5	4705.6	4686.4	4541.5	4552.5	4653.6	4268.1
35°	5113.0	5088.4	5137.6	5088.4	4989.9	4984.5	4965.3	4839.6	4899.7	5044.6	4661.8
37.5°	5296.2	5304.4	5364.5	5339.9	5348.1	5353.6	5342.7	5208.7	5380.9	5706.3	5121.2
40°	5465.7	5454.8	5602.4	5679.0	5695.4	5755.5	5755.5	5722.7	5987.9	6354.3	5758.3
42.5°	5646.1	5673.5	5864.9	5993.4	6149.2	6201.2	6272.3	6288.7	6698.8	7117.2	6409.0
45°	5941.4	5895.0	6138.3	6441.8	6578.5	6761.7	6871.1	6964.0	7458.9	8033.1	7059.7
47.5°	6316.0	6223.1	6436.3	6876.5	7193.7	7344.1	7541.0	7664.0	8148.0	8741.3	7674.9
50°	6731.6	6635.9	6739.8	7346.8	7715.9	7989.4	8240.9	8396.8	8981.9	9534.2	8123.3
52.5°	7201.9	7114.4	7130.8	7836.3	8380.4	8580.0	8910.8	9143.2	9725.6	10012.7	8281.9
55°	7702.3	7680.4	7628.5	8314.7	8962.7	9411.2	9610.8	9889.6	10488.4	10272.4	8454.2
57.5°	8205.4	8137.0	8210.8	8949.1	9897.8	10165.8	10442.0	10608.7	10912.2	10499.4	8388.6
60°	8678.4	8683.9	8787.8	9638.1	10693.5	11073.6	11322.4	11221.2	11347.0	10597.8	8238.2
62.5°	9077.6	9066.6	9329.1	10411.9	11746.2	12003.2	12189.1	11738.0	11549.3	10693.5	7975.7
65°	9435.8	9558.8	9971.7	11333.3	12736.0	13031.3	12919.2	12227.4	11746.2	10411.9	7237.5
67.5°	9706.5	9889.6	10606.0	12200.1	13643.7	13851.5	13695.7	12599.2	11513.8	9307.3	5895.0
70°	9865.0	10051.0	11059.9	12921.9	14368.3	14518.7	14152.3	12312.2	10157.6	6739.8	3677.5
71°	9815.8	10042.8	11147.4	12998.4	14540.5	14652.6	14083.9	11781.7	9135.0	5643.4	2682.3
72.5°	9370.1	9583.4	10783.7	12943.8	14332.7	14264.4	13550.8	10507.6	7191.0	3598.2	1386.2
75°	6884.7	7114.4	9255.3	11196.6	12793.4	12323.1	10966.9	7374.2	3751.3	1101.9	404.7
77.5°	3428.7	3467.0	5744.6	8128.8	9383.8	8916.3	7349.6	4112.3	1402.7	325.4	202.3
80°	1580.4	1591.3	2154.6	4210.7	5673.5	5339.9	4117.7	2028.8	634.3	172.3	158.6
82.5°	1077.3	1093.7	1298.8	1744.4	2463.5	2078.0	1667.9	1298.8	363.7	103.9	155.9
85°	196.9	180.5	727.3	924.2	951.5	645.3	576.9	1123.8	136.7	60.2	136.7
87.5°	0.0	2.7	101.2	377.3	339.0	150.4	196.9	273.4	13.7	19.1	24.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484660

CATALOG NUMBER: IFLD-L-SA8A-722-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3628.3	3628.3	3628.3	3628.3	3628.3	3628.3	3628.3	3628.3	3628.3	3628.3	3628.3
2.5°	3622.8	3592.8	3491.6	3379.5	3278.3	3199.0	3097.9	3051.4	2977.6	2936.5	2933.8
5°	3570.9	3488.9	3313.9	3125.2	2914.7	2739.7	2545.6	2436.2	2310.4	2272.1	2263.9
7.5°	3483.4	3365.8	3108.8	2843.6	2520.9	2212.0	1974.1	1719.8	1564.0	1498.3	1473.7
10°	3428.7	3286.5	2936.5	2540.1	2088.9	1654.2	1320.6	1049.9	907.8	839.4	823.0
12.5°	3428.7	3275.6	2797.1	2250.3	1651.5	1132.0	817.5	661.7	615.2	598.8	598.8
15°	3420.5	3253.7	2663.1	1952.2	1222.2	760.1	609.7	576.9	571.5	568.7	566.0
17.5°	3461.5	3215.4	2526.4	1632.3	864.0	598.8	560.5	555.0	549.6	549.6	544.1
20°	3491.6	3193.6	2362.4	1293.3	645.3	555.0	538.6	530.4	527.7	525.0	530.4
22.5°	3467.0	3160.7	2160.0	967.9	563.2	527.7	516.8	508.6	503.1	503.1	505.8
25°	3513.5	3130.7	1957.7	730.0	527.7	503.1	492.2	486.7	484.0	481.2	475.8
27.5°	3576.3	3144.3	1717.1	587.9	497.6	478.5	467.6	462.1	459.3	453.9	459.3
30°	3652.9	3141.6	1451.9	514.0	470.3	451.1	440.2	437.5	432.0	429.3	432.0
32.5°	3784.1	3212.7	1178.4	475.8	440.2	423.8	412.9	410.1	407.4	404.7	401.9
35°	4065.8	3300.2	921.4	445.7	412.9	393.7	385.5	380.1	377.3	374.6	371.9
37.5°	4413.0	3494.3	702.7	418.3	385.5	366.4	358.2	355.4	344.5	341.8	339.0
40°	4847.8	3702.1	541.4	388.3	360.9	341.8	333.6	325.4	311.7	306.2	300.8
42.5°	5389.1	3904.5	445.7	360.9	333.6	319.9	306.2	292.6	281.6	270.7	265.2
45°	5930.5	4139.6	391.0	336.3	311.7	295.3	284.4	265.2	246.1	229.7	226.9
47.5°	6381.7	4224.4	358.2	309.0	289.8	276.2	259.8	235.1	207.8	191.4	188.7
50°	6718.0	4175.1	325.4	281.6	265.2	251.5	229.7	199.6	172.3	155.9	150.4
52.5°	6783.6	3959.1	295.3	259.8	240.6	224.2	199.6	166.8	136.7	120.3	117.6
55°	6737.1	3601.0	270.7	240.6	218.7	194.1	166.8	134.0	106.6	90.2	87.5
57.5°	6641.4	3177.2	243.3	216.0	191.4	166.8	136.7	109.4	79.3	62.9	62.9
60°	6316.0	2600.2	216.0	188.7	164.1	142.2	112.1	79.3	54.7	41.0	38.3
62.5°	5862.2	1998.7	188.7	161.3	142.2	117.6	87.5	57.4	32.8	21.9	21.9
65°	5033.7	1399.9	158.6	134.0	117.6	95.7	65.6	35.5	19.1	8.2	8.2
67.5°	3825.2	866.7	131.2	112.1	101.2	76.6	46.5	21.9	8.2	2.7	0.0
70°	2195.6	451.1	103.9	90.2	79.3	57.4	32.8	10.9	5.5	0.0	0.0
71°	1533.9	333.6	93.0	79.3	71.1	52.0	27.3	8.2	2.7	0.0	0.0
72.5°	768.3	221.5	79.3	65.6	57.4	41.0	21.9	8.2	2.7	0.0	0.0
75°	273.4	142.2	54.7	43.7	41.0	30.1	13.7	5.5	2.7	0.0	0.0
77.5°	188.7	114.8	38.3	27.3	27.3	19.1	8.2	2.7	2.7	0.0	0.0
80°	172.3	62.9	24.6	16.4	13.7	10.9	5.5	2.7	0.0	0.0	0.0
82.5°	172.3	46.5	13.7	10.9	8.2	5.5	2.7	0.0	0.0	0.0	0.0
85°	120.3	24.6	8.2	8.2	5.5	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	19.1	8.2	5.5	2.7	2.7	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)