

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: P480946

Luminaire Tested: **IFLD-M-SA4B-750-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480946
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-750-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

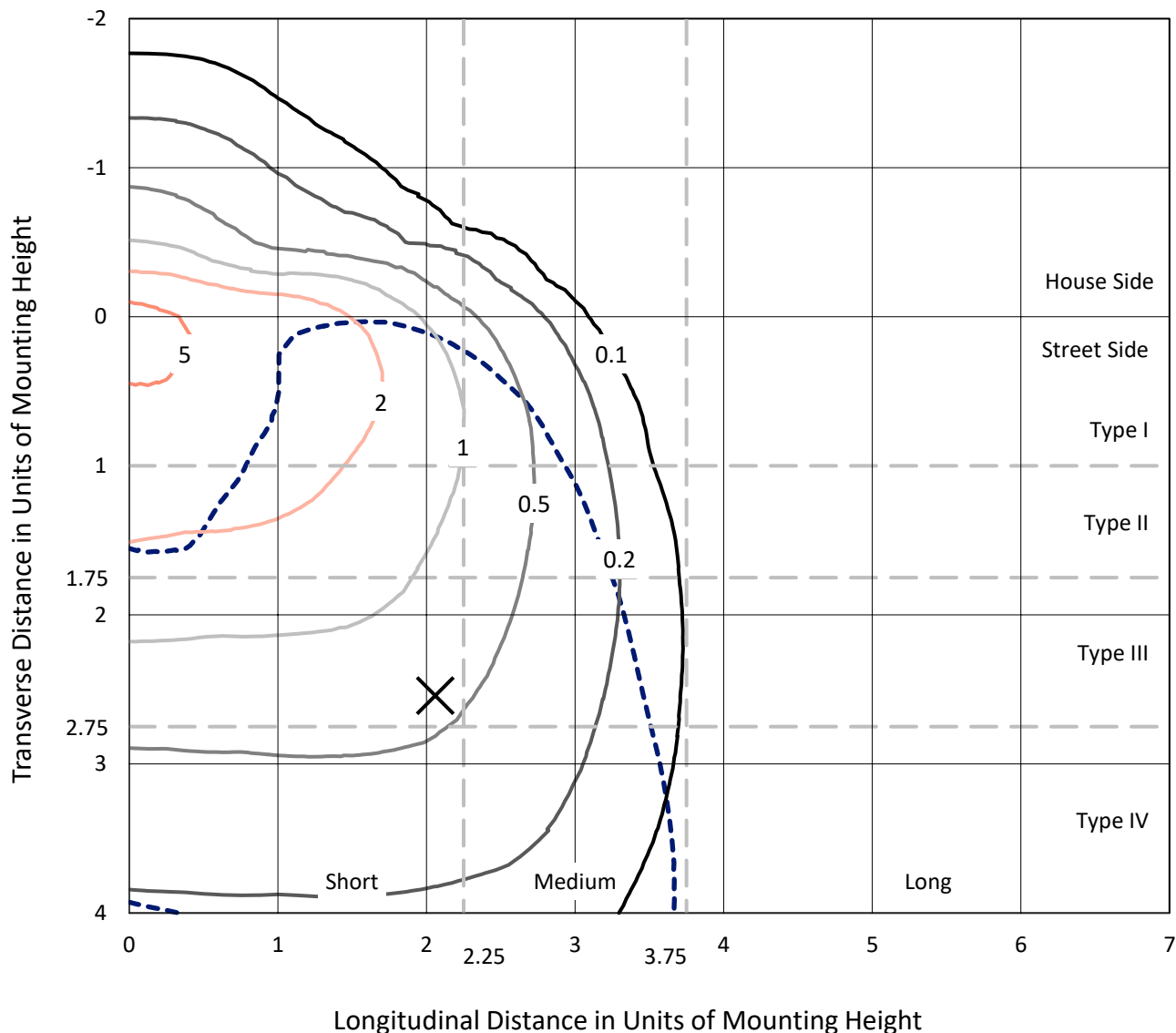
Lumens per Lamp: N/A
Luminaire Lumens: 22598 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

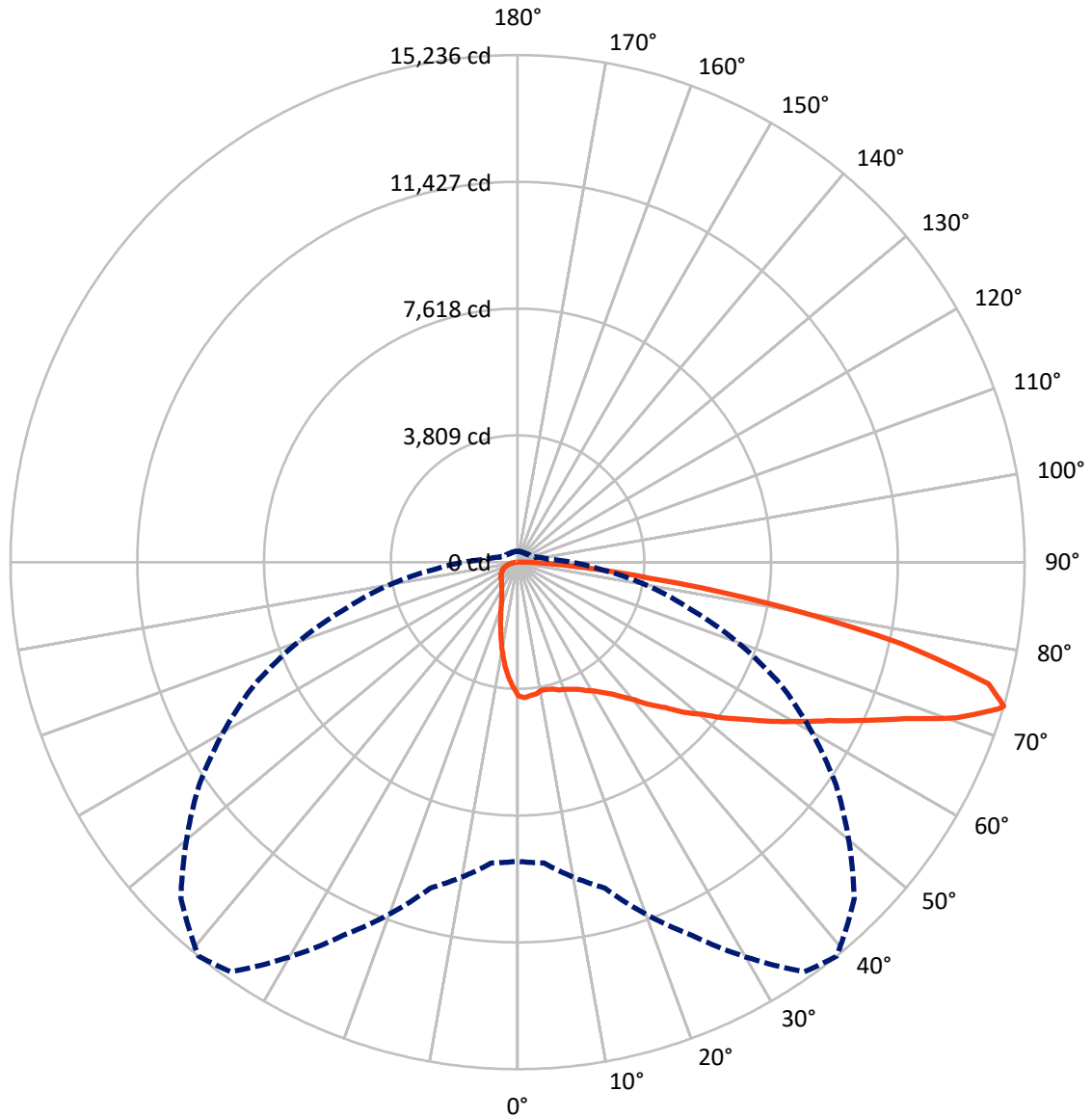
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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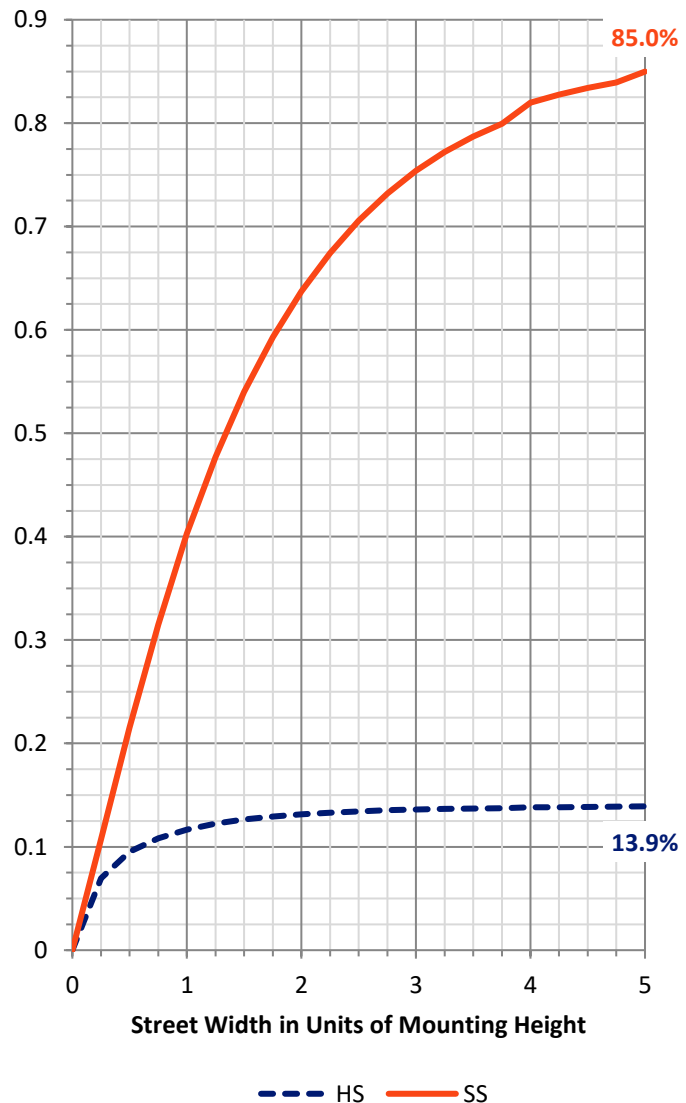
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3176.7	0.0	3176.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	19421.4	0.0	19421.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	22598.0	0.0	22598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.2	1.5
10°-20°	887.7	3.9
20°-30°	1356.5	6.0
30°-40°	1977.8	8.8
40°-50°	2988.7	13.2
50°-60°	4327.8	19.2
60°-70°	5498.7	24.3
70°-80°	4457.5	19.7
80°-90°	754.2	3.3
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°	22598.0	100.0
0°-180°	22598.0	100.0

Coefficient of Utilization

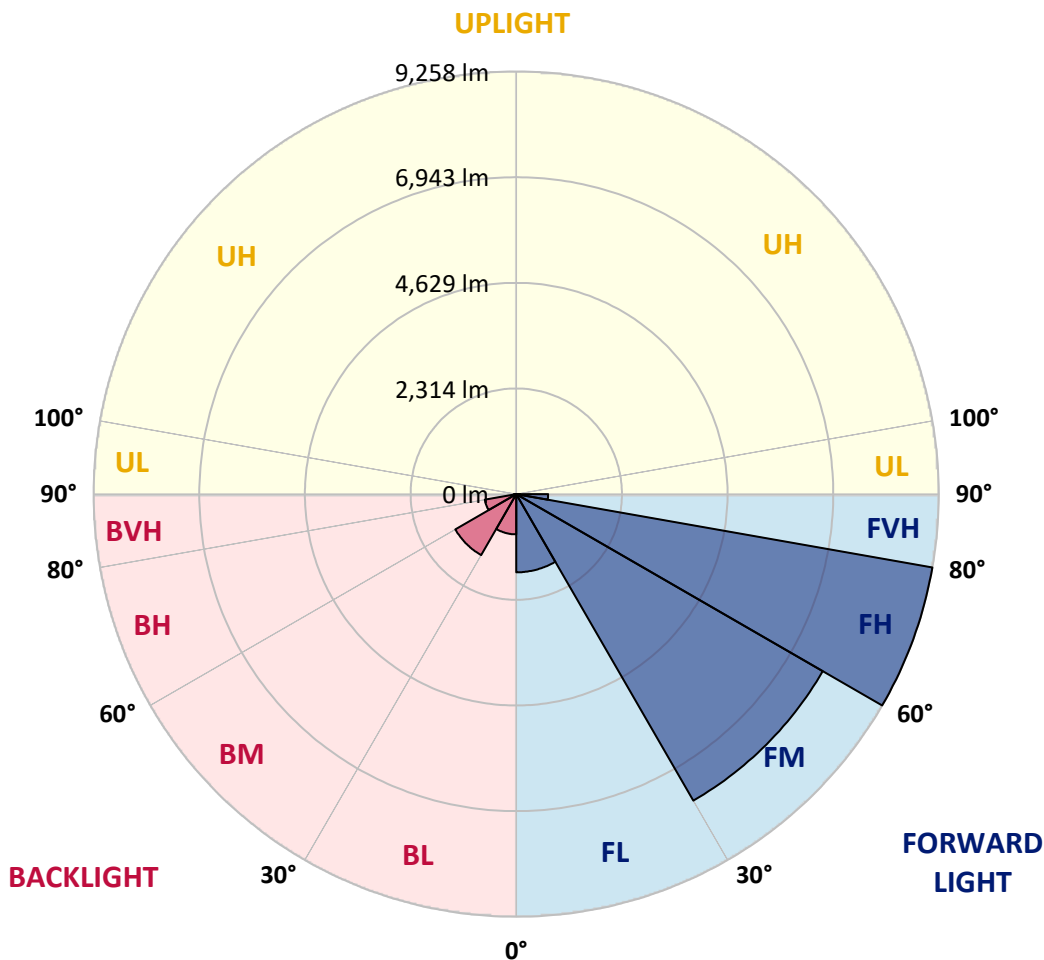


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1712.4	7.6			
FM (30°-60°)	7752.6	34.3			
FH (60°-80°)	9257.5	41.0			G4/12000
FVH (80°-90°)	698.9	3.1			G4/750
BL (0°-30°)	881.0	3.9	B2/1000		
BM (30°-60°)	1541.7	6.8	B2/2500		
BH (60°-80°)	698.7	3.1	B2/1000		G2/1000
BVH (80°-90°)	55.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4022.6	4022.6	4022.6	4022.6	4022.6	4022.6	4022.6	4022.6	4022.6	4022.6	4022.6
2.5°	4118.7	4075.7	4083.3	4068.1	4083.3	4078.2	4070.6	4032.7	4070.6	4032.7	4022.6
5°	4063.0	4063.0	4088.3	4050.4	4055.5	4030.2	4055.5	4027.6	4002.4	3939.2	3921.5
7.5°	4045.3	4042.8	4045.3	3992.2	4017.5	4002.4	3977.1	3946.7	3896.2	3855.7	3797.6
10°	3924.0	3949.3	3921.5	3936.6	3956.9	3911.3	3908.8	3901.2	3878.5	3825.4	3790.0
12.5°	3858.2	3901.2	3916.4	3903.8	3921.5	3926.5	3911.3	3901.2	3873.4	3838.0	3736.9
15°	3886.1	3835.5	3878.5	3961.9	3944.2	3956.9	3959.4	3949.3	3936.6	3870.9	3805.2
17.5°	3893.6	3863.3	3954.3	3972.0	3994.8	4040.3	4009.9	4007.4	3959.4	3913.9	3817.8
20°	3911.3	3898.7	3972.0	4065.6	4068.1	4075.7	4090.9	4052.9	4027.6	3949.3	3802.6
22.5°	3977.1	4020.1	4088.3	4128.8	4151.5	4156.6	4156.6	4080.7	4052.9	3989.7	3873.4
25°	4174.3	4128.8	4224.9	4272.9	4240.0	4232.4	4214.7	4146.5	4116.1	4060.5	3906.3
27.5°	4318.4	4315.9	4371.5	4437.2	4348.7	4366.4	4303.2	4283.0	4214.7	4184.4	3964.4
30°	4515.6	4571.2	4568.7	4588.9	4472.6	4492.9	4412.0	4374.0	4336.1	4353.8	4136.4
32.5°	4768.5	4748.2	4781.1	4765.9	4649.6	4667.3	4571.2	4513.1	4525.7	4578.8	4371.5
35°	4930.3	4910.0	4922.7	4922.7	4887.3	4867.1	4826.6	4750.8	4811.4	4910.0	4634.4
37.5°	5104.7	5130.0	5203.3	5188.2	5142.6	5142.6	5137.6	5084.5	5162.9	5405.6	5054.2
40°	5258.9	5327.2	5372.7	5403.1	5456.2	5456.2	5499.1	5468.8	5610.4	5999.8	5567.4
42.5°	5420.8	5423.3	5671.1	5693.8	5812.7	5863.2	5896.1	5921.4	6186.8	6621.7	6116.1
45°	5628.1	5640.7	5858.2	6032.6	6217.2	6234.9	6358.8	6442.2	6768.4	7301.8	6712.7
47.5°	5901.1	5886.0	6118.6	6396.7	6626.8	6748.1	6897.3	6988.3	7390.3	8040.1	7365.1
50°	6260.2	6214.7	6348.7	6786.1	7056.6	7190.6	7456.1	7607.8	8078.0	8745.5	7812.6
52.5°	6697.6	6621.7	6727.9	7205.8	7509.2	7779.7	8032.5	8201.9	8692.4	9291.7	8143.8
55°	7160.3	7003.5	7033.8	7650.8	8088.2	8343.5	8689.9	8866.9	9367.5	9782.1	8475.0
57.5°	7617.9	7519.3	7458.6	8078.0	8778.4	9023.6	9342.2	9572.3	9997.1	10217.0	8755.6
60°	8002.2	7976.9	7878.3	8740.5	9509.1	9718.9	10052.7	10194.3	10515.4	10619.0	8760.7
62.5°	8318.2	8232.3	8389.0	9274.0	10252.4	10490.1	10856.7	10869.3	11096.9	10869.3	8502.8
65°	8566.0	8571.1	8821.4	9918.7	11112.1	11463.5	11759.3	11726.4	11579.8	10720.2	7893.5
67.5°	8791.0	8887.1	9253.7	10626.6	12216.9	12548.2	12876.8	12442.0	11711.3	10022.3	6702.6
70°	8968.0	9064.1	9837.8	11488.8	13519.0	14004.5	14077.8	12725.1	11107.0	8490.2	5056.7
72.5°	8947.8	9122.3	10169.0	12176.5	14674.5	15094.2	14502.6	11928.7	9253.7	5918.8	2950.6
73°	8990.8	9076.7	10141.2	12368.6	15025.9	15235.8	14305.4	11678.4	8727.8	5309.5	2495.5
75°	8161.5	8452.2	9638.0	12055.1	14649.2	14611.3	13172.7	9731.6	6204.5	2788.8	1208.5
77.5°	6037.7	6222.2	7595.1	9913.6	12024.8	11782.1	9936.4	6219.7	2945.5	1034.1	652.3
80°	2950.6	3094.7	4025.1	5724.2	7863.1	7883.4	6166.6	3236.3	1261.6	584.0	445.0
82.5°	1474.0	1560.0	1934.2	2515.7	3868.4	4052.9	3127.6	1840.6	781.3	331.2	252.8
85°	963.3	1024.0	1190.8	1231.3	1640.9	1731.9	1456.3	1436.1	508.2	179.5	204.8
87.5°	639.7	649.8	730.7	622.0	657.4	632.1	702.9	905.1	149.2	75.9	55.6
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4022.6	4022.6	4022.6	4022.6	4022.6	4022.6	4022.6	4022.6	4022.6	4022.6	4022.6
2.5°	4009.9	3974.6	3936.6	3883.5	3845.6	3787.5	3734.4	3711.6	3706.5	3709.1	3683.8
5°	3906.3	3855.7	3779.9	3671.2	3607.9	3511.9	3431.0	3388.0	3342.5	3350.1	3329.8
7.5°	3762.2	3706.5	3590.2	3463.8	3307.1	3170.5	3094.7	2988.5	2927.8	2882.3	2907.6
10°	3716.7	3620.6	3446.1	3271.7	3029.0	2849.4	2675.0	2553.6	2470.2	2389.3	2424.7
12.5°	3693.9	3597.8	3355.1	3097.2	2783.7	2510.6	2265.4	2116.2	1997.4	1926.6	1954.4
15°	3673.7	3554.8	3269.1	2905.1	2553.6	2194.6	1919.0	1721.8	1608.0	1539.8	1547.3
17.5°	3701.5	3532.1	3142.7	2718.0	2300.8	1916.5	1610.6	1405.8	1289.5	1246.5	1236.4
20°	3673.7	3506.8	3018.8	2530.9	2048.0	1651.0	1357.7	1188.3	1107.4	1072.0	1064.4
22.5°	3683.8	3446.1	2889.9	2323.5	1812.8	1428.5	1188.3	1059.4	996.2	978.5	983.5
25°	3731.8	3410.7	2760.9	2096.0	1580.2	1264.2	1079.6	981.0	935.5	917.8	922.8
27.5°	3767.2	3441.1	2644.6	1881.1	1383.0	1117.5	988.6	922.8	892.5	879.9	877.3
30°	3855.7	3458.8	2530.9	1688.9	1221.2	1021.4	925.4	872.3	852.1	844.5	841.9
32.5°	3987.2	3491.6	2399.4	1511.9	1102.4	930.4	874.8	829.3	824.2	816.7	819.2
35°	4202.1	3605.4	2252.8	1360.2	988.6	869.7	821.7	791.4	791.4	791.4	799.0
37.5°	4510.6	3764.7	2121.3	1216.1	915.3	816.7	776.2	766.1	761.0	768.6	773.7
40°	4907.5	3956.9	2015.1	1102.4	852.1	781.3	745.9	740.8	738.3	735.7	740.8
42.5°	5342.4	4202.1	1924.1	1013.9	806.5	743.3	718.0	713.0	702.9	707.9	715.5
45°	5774.7	4505.5	1843.2	943.1	776.2	723.1	687.7	685.2	680.1	677.6	690.2
47.5°	6255.1	4803.8	1817.9	900.1	753.4	692.8	667.5	665.0	649.8	647.3	657.4
50°	6629.3	5023.8	1845.7	879.9	720.6	670.0	652.3	639.7	627.0	614.4	614.4
52.5°	6887.2	5175.5	1865.9	864.7	702.9	639.7	616.9	611.9	599.2	586.6	581.5
55°	7119.8	5266.5	1871.0	867.2	685.2	604.3	589.1	586.6	579.0	558.8	553.7
57.5°	7198.2	5228.6	1769.8	844.5	675.1	581.5	561.3	566.3	556.2	538.5	536.0
60°	7190.6	4965.7	1539.8	814.1	652.3	556.2	531.0	546.1	546.1	525.9	523.4
62.5°	6753.2	4358.9	1259.1	756.0	627.0	531.0	503.1	525.9	533.5	520.8	518.3
65°	5845.5	3549.8	1051.8	697.8	589.1	503.1	475.3	500.6	513.3	508.2	505.7
67.5°	4836.7	2715.4	874.8	622.0	541.1	465.2	442.5	460.2	467.7	470.3	472.8
70°	3418.3	1807.8	730.7	538.5	475.3	424.8	399.5	402.0	399.5	407.1	407.1
72.5°	1858.3	1041.7	594.2	457.6	409.6	369.1	351.4	338.8	338.8	336.3	336.3
73°	1590.3	935.5	566.3	445.0	391.9	359.0	338.8	328.7	328.7	326.2	323.6
75°	892.5	685.2	485.4	381.8	338.8	313.5	298.3	283.2	280.6	280.6	280.6
77.5°	586.6	533.5	386.8	305.9	273.1	250.3	245.2	230.1	230.1	230.1	227.6
80°	439.9	419.7	298.3	232.6	209.9	192.2	187.1	177.0	174.5	164.3	166.9
82.5°	293.3	331.2	217.4	164.3	141.6	131.5	131.5	128.9	121.4	108.7	108.7
85°	232.6	270.5	156.8	101.1	83.4	70.8	73.3	70.8	68.3	55.6	53.1
87.5°	43.0	108.7	45.5	27.8	20.2	12.6	12.6	7.6	5.1	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)