

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: P484842

Luminaire Tested: **IFLD-S-SA6C-750-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484842
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-750-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (96) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

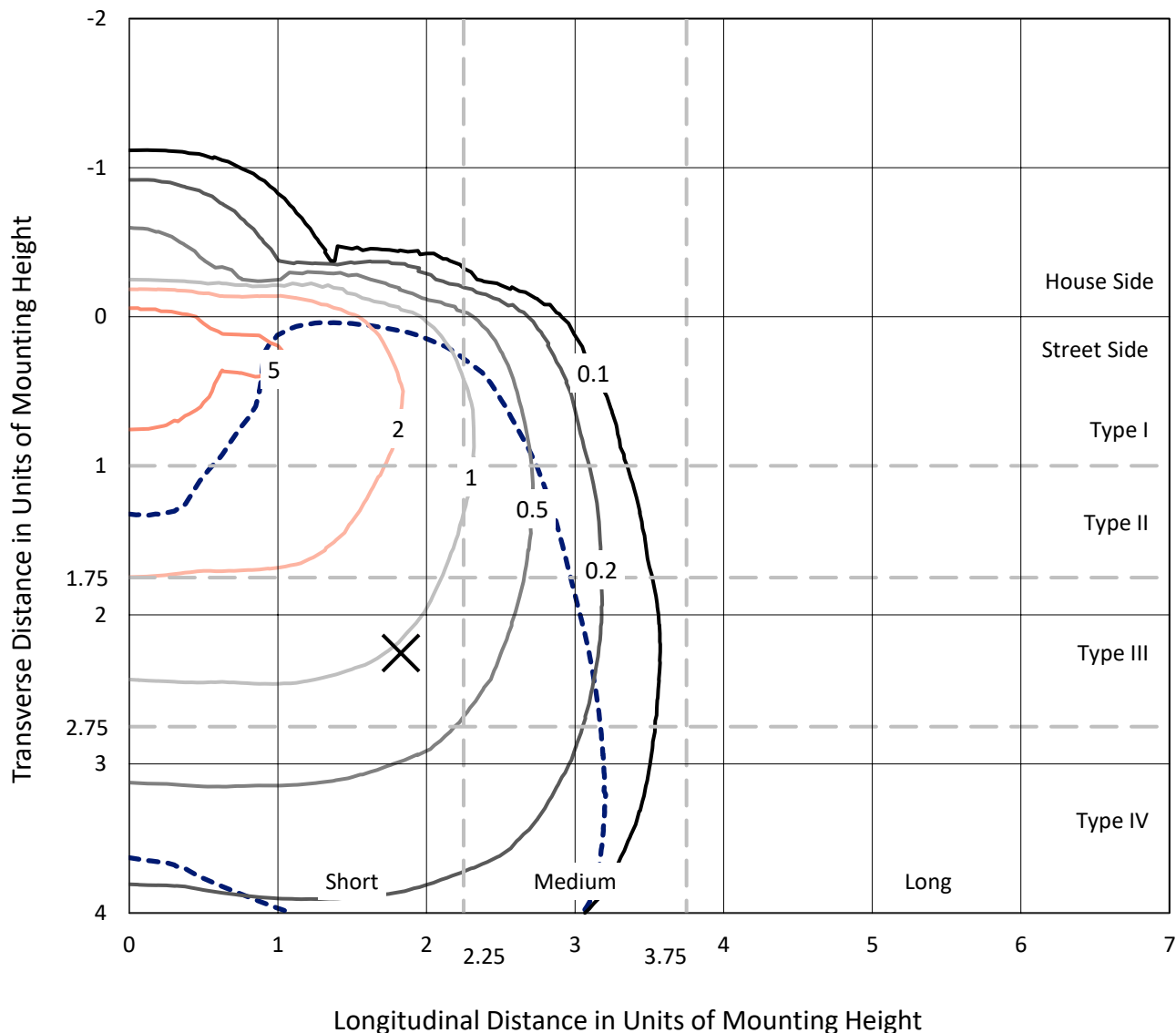
Lumens per Lamp: N/A
Luminaire Lumens: 35112.8 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 321.5
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

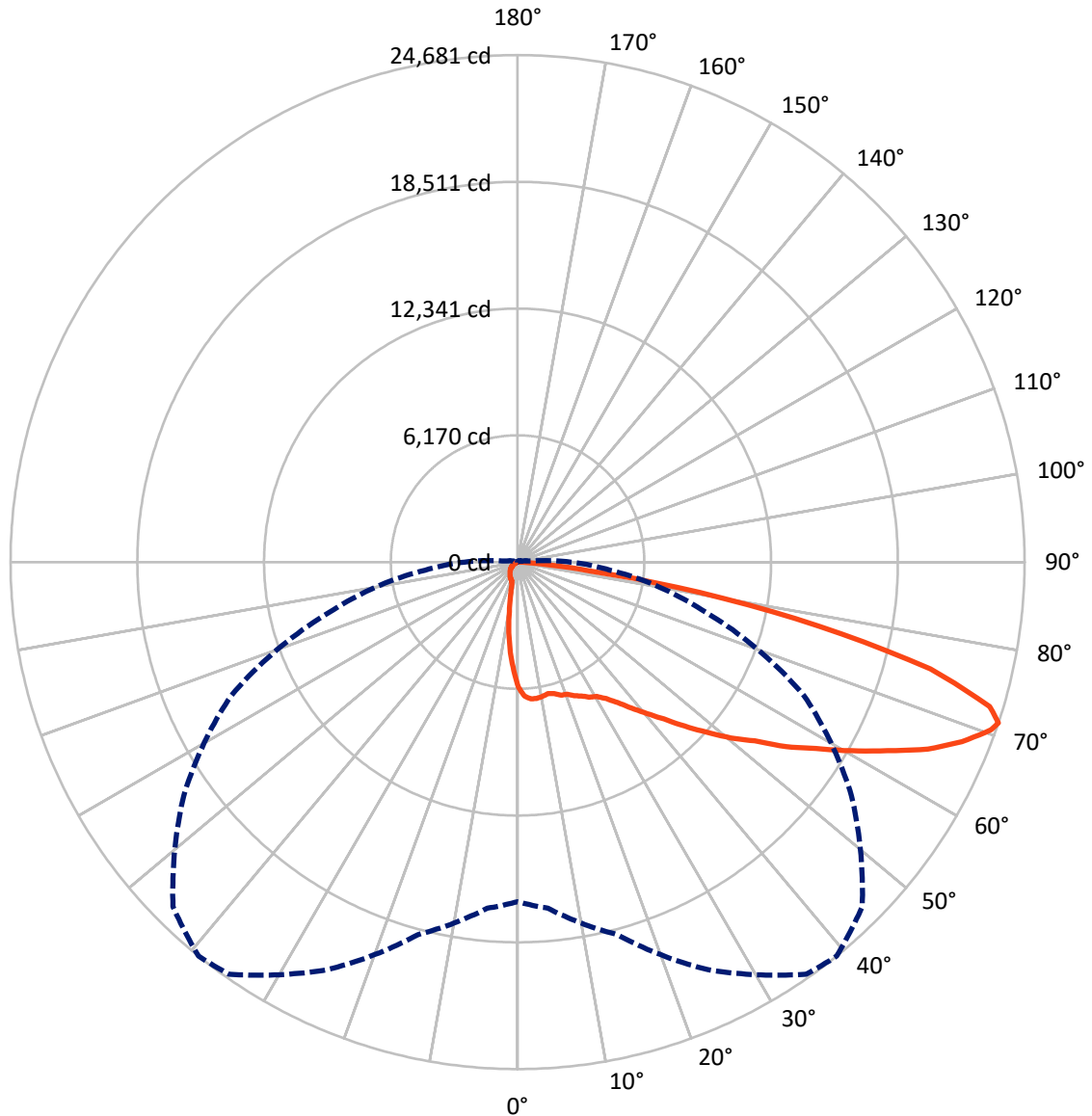
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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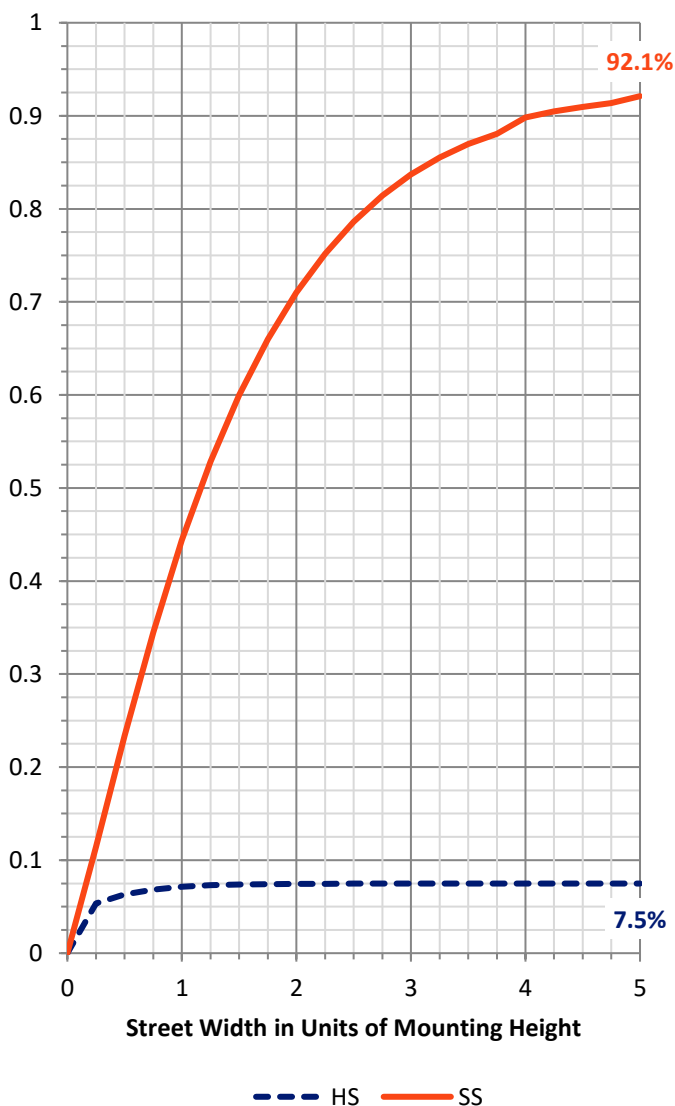
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2643.4	0.0	2643.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	32469.3	0.0	32469.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	35112.8	0.0	35112.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.0	1.5
10°-20°	1257.7	3.6
20°-30°	2019.0	5.8
30°-40°	3090.6	8.8
40°-50°	4960.9	14.1
50°-60°	7286.8	20.8
60°-70°	9177.5	26.1
70°-80°	6124.8	17.4
80°-90°	684.5	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°	35112.8	100.0
0°-180°	35112.8	100.0

Coefficient of Utilization



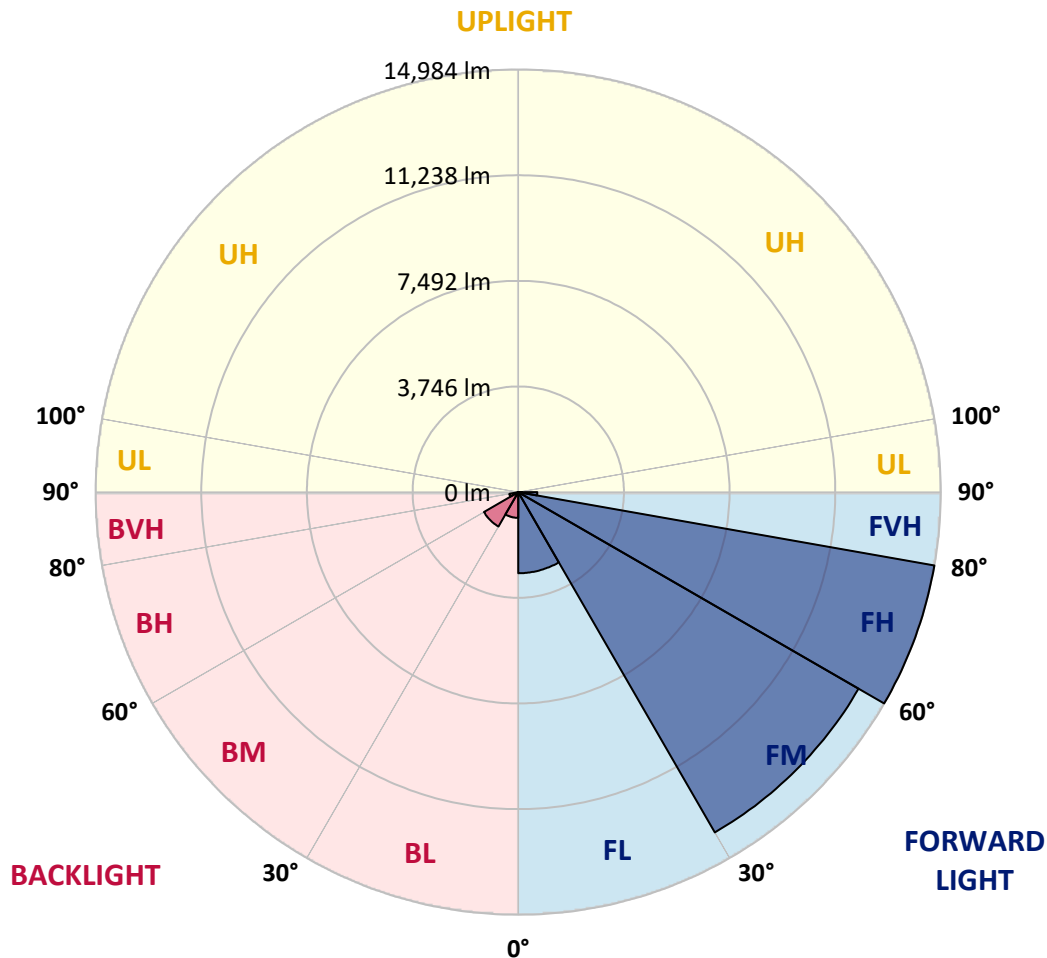
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2875.0	8.2			
FM (30°-60°)	13933.3	39.7			
FH (60°-80°)	14984.1	42.7			G5
FVH (80°-90°)	676.9	1.9			G4/750
BL (0°-30°)	912.6	2.6	B2/1000		
BM (30°-60°)	1405.1	4.0	B2/2500		
BH (60°-80°)	318.2	0.9	B1/500		G1/500
BVH (80°-90°)	7.5	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6111.6	6111.6	6111.6	6111.6	6111.6	6111.6	6111.6	6111.6	6111.6	6111.6	6111.6
2.5°	6586.0	6650.5	6586.0	6558.3	6530.7	6535.3	6461.6	6475.4	6387.9	6272.8	6180.7
5°	6793.2	6880.7	6811.6	6779.4	6774.8	6687.3	6650.5	6562.9	6457.0	6277.4	6166.9
7.5°	6774.8	6756.4	6788.6	6761.0	6701.1	6701.1	6659.7	6535.3	6429.4	6226.7	6037.9
10°	6636.6	6691.9	6664.3	6632.0	6645.8	6650.5	6572.2	6484.7	6452.4	6249.8	5941.2
12.5°	6622.8	6530.7	6632.0	6636.6	6576.8	6572.2	6562.9	6539.9	6438.6	6254.4	5964.2
15°	6576.8	6539.9	6641.2	6645.8	6659.7	6645.8	6659.7	6641.2	6539.9	6434.0	6065.5
17.5°	6613.6	6572.2	6714.9	6784.0	6751.8	6816.3	6793.2	6710.3	6622.8	6498.5	6162.3
20°	6622.8	6682.7	6839.3	6866.9	6968.2	6862.3	6857.7	6770.2	6714.9	6581.4	6222.1
22.5°	6793.2	6820.9	7014.3	7074.2	7078.8	7065.0	6949.8	6848.5	6825.5	6659.7	6236.0
25°	7051.1	7147.9	7235.4	7272.2	7286.0	7221.5	7101.8	6972.8	6917.6	6811.6	6378.7
27.5°	7507.1	7447.2	7525.5	7580.8	7424.2	7447.2	7295.2	7184.7	7106.4	7014.3	6544.5
30°	7912.4	7857.1	7861.7	7852.5	7718.9	7594.6	7553.1	7359.7	7263.0	7299.8	6802.4
32.5°	8276.2	8156.5	8257.8	8211.7	7963.0	7926.2	7894.0	7649.9	7668.3	7838.7	7189.3
35°	8612.4	8571.0	8653.9	8571.0	8405.2	8396.0	8363.7	8151.9	8253.2	8497.3	7852.5
37.5°	8921.0	8934.8	9036.1	8994.7	9008.5	9017.7	8999.3	8773.6	9063.8	9611.8	8626.2
40°	9206.5	9188.1	9436.8	9565.8	9593.4	9694.7	9694.7	9639.5	10086.2	10703.4	9699.3
42.5°	9510.5	9556.6	9879.0	10095.4	10357.9	10445.4	10565.2	10592.8	11283.7	11988.3	10795.5
45°	10007.9	9929.6	10339.5	10850.7	11081.0	11389.6	11573.8	11730.4	12564.0	13531.2	11891.6
47.5°	10638.9	10482.3	10841.5	11583.0	12117.3	12370.6	12702.2	12909.4	13724.6	14724.0	12927.9
50°	11338.9	11177.7	11352.7	12375.2	12996.9	13457.5	13881.2	14143.7	15129.3	16059.6	13683.2
52.5°	12131.1	11983.7	12011.3	13199.6	14116.1	14452.3	15009.6	15401.0	16382.0	16865.6	13950.3
55°	12973.9	12937.1	12849.6	14005.6	15097.1	15852.4	16188.6	16658.4	17667.0	17303.2	14240.4
57.5°	13821.3	13706.2	13830.5	15074.1	16672.2	17123.5	17588.7	17869.6	18380.9	17685.4	14129.9
60°	14618.1	14627.3	14802.3	16234.7	18012.4	18652.6	19071.7	18901.3	19113.1	17851.2	13876.6
62.5°	15290.5	15272.1	15714.2	17538.0	19785.6	20218.5	20531.7	19771.7	19454.0	18012.4	13434.5
65°	15893.8	16101.1	16796.5	19090.1	21452.8	21950.2	21761.4	20596.1	19785.6	17538.0	12191.0
67.5°	16349.8	16658.4	17865.0	20550.1	22981.8	23331.9	23069.3	21222.5	19394.1	15677.4	9929.6
70°	16616.9	16930.1	18629.6	21766.0	24202.3	24455.6	23838.5	20738.9	17109.7	11352.7	6194.5
71°	16534.0	16916.3	18776.9	21894.9	24492.5	24681.3	23723.3	19845.4	15387.2	9505.9	4518.1
72.5°	15783.3	16142.5	18164.4	21802.8	24142.4	24027.3	22825.2	17699.2	12112.7	6060.9	2335.0
75°	11596.8	11983.7	15589.9	18859.8	21549.5	20757.3	18473.0	12421.2	6318.9	1856.0	681.6
77.5°	5775.4	5839.9	9676.3	13692.4	15806.3	15018.8	12379.8	6926.8	2362.7	548.1	340.8
80°	2662.0	2680.4	3629.2	7092.6	9556.6	8994.7	6936.0	3417.3	1068.5	290.2	267.1
82.5°	1814.6	1842.2	2187.6	2938.4	4149.6	3500.2	2809.4	2187.6	612.5	175.0	262.5
85°	331.6	304.0	1225.1	1556.7	1602.7	1086.9	971.8	1892.9	230.3	101.3	230.3
87.5°	0.0	4.6	170.4	635.6	571.1	253.3	331.6	460.6	23.0	32.2	41.5
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°	6111.6	6111.6	6111.6	6111.6	6111.6	6111.6	6111.6	6111.6	6111.6	6111.6	6111.6
2.5°	6102.4	6051.7	5881.3	5692.5	5522.1	5388.5	5218.1	5139.8	5015.5	4946.4	4941.8
5°	6014.9	5876.7	5582.0	5264.2	4909.5	4614.8	4287.8	4103.6	3891.7	3827.2	3813.4
7.5°	5867.5	5669.5	5236.5	4789.8	4246.3	3725.9	3325.2	2896.9	2634.4	2523.9	2482.4
10°	5775.4	5535.9	4946.4	4278.6	3518.7	2786.4	2224.5	1768.5	1529.1	1413.9	1386.3
12.5°	5775.4	5517.5	4711.5	3790.4	2781.8	1906.7	1377.1	1114.5	1036.3	1008.6	1008.6
15°	5761.6	5480.6	4485.8	3288.4	2058.7	1280.4	1027.0	971.8	962.6	958.0	953.4
17.5°	5830.7	5416.2	4255.6	2749.5	1455.4	1008.6	944.1	934.9	925.7	925.7	916.5
20°	5881.3	5379.3	3979.2	2178.4	1086.9	934.9	907.3	893.5	888.9	884.3	893.5
22.5°	5839.9	5324.0	3638.4	1630.4	948.7	888.9	870.5	856.6	847.4	847.4	852.0
25°	5918.2	5273.4	3297.6	1229.7	888.9	847.4	829.0	819.8	815.2	810.6	801.4
27.5°	6024.1	5296.4	2892.3	990.2	838.2	806.0	787.6	778.3	773.7	764.5	773.7
30°	6153.1	5291.8	2445.6	865.8	792.2	759.9	741.5	736.9	727.7	723.1	727.7
32.5°	6374.1	5411.6	1985.0	801.4	741.5	713.9	695.4	690.8	686.2	681.6	677.0
35°	6848.5	5558.9	1552.1	750.7	695.4	663.2	649.4	640.2	635.6	631.0	626.4
37.5°	7433.4	5885.9	1183.6	704.7	649.4	617.1	603.3	598.7	580.3	575.7	571.1
40°	8165.7	6236.0	911.9	654.0	607.9	575.7	561.9	548.1	525.0	515.8	506.6
42.5°	9077.6	6576.8	750.7	607.9	561.9	538.9	515.8	492.8	474.4	456.0	446.7
45°	9989.5	6972.8	658.6	566.5	525.0	497.4	479.0	446.7	414.5	386.9	382.3
47.5°	10749.4	7115.6	603.3	520.4	488.2	465.2	437.5	396.1	350.0	322.4	317.8
50°	11315.9	7032.7	548.1	474.4	446.7	423.7	386.9	336.2	290.2	262.5	253.3
52.5°	11426.4	6668.9	497.4	437.5	405.3	377.7	336.2	280.9	230.3	202.6	198.0
55°	11348.1	6065.5	456.0	405.3	368.4	327.0	280.9	225.7	179.6	152.0	147.4
57.5°	11186.9	5351.7	409.9	363.8	322.4	280.9	230.3	184.2	133.6	105.9	105.9
60°	10638.9	4379.9	363.8	317.8	276.3	239.5	188.8	133.6	92.1	69.1	64.5
62.5°	9874.4	3366.7	317.8	271.7	239.5	198.0	147.4	96.7	55.3	36.8	36.8
65°	8478.9	2358.1	267.1	225.7	198.0	161.2	110.5	59.9	32.2	13.8	13.8
67.5°	6443.2	1460.0	221.1	188.8	170.4	129.0	78.3	36.8	13.8	4.6	0.0
70°	3698.3	759.9	175.0	152.0	133.6	96.7	55.3	18.4	9.2	0.0	0.0
71°	2583.7	561.9	156.6	133.6	119.7	87.5	46.1	13.8	4.6	0.0	0.0
72.5°	1294.2	373.1	133.6	110.5	96.7	69.1	36.8	13.8	4.6	0.0	0.0
75°	460.6	239.5	92.1	73.7	69.1	50.7	23.0	9.2	4.6	0.0	0.0
77.5°	317.8	193.4	64.5	46.1	46.1	32.2	13.8	4.6	4.6	0.0	0.0
80°	290.2	105.9	41.5	27.6	23.0	18.4	9.2	4.6	0.0	0.0	0.0
82.5°	290.2	78.3	23.0	18.4	13.8	9.2	4.6	0.0	0.0	0.0	0.0
85°	202.6	41.5	13.8	13.8	9.2	4.6	0.0	0.0	0.0	0.0	0.0
87.5°	32.2	13.8	9.2	4.6	4.6	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)