

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: P476706

Luminaire Tested: **IFLD-L-SA8C-760-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476706
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-760-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

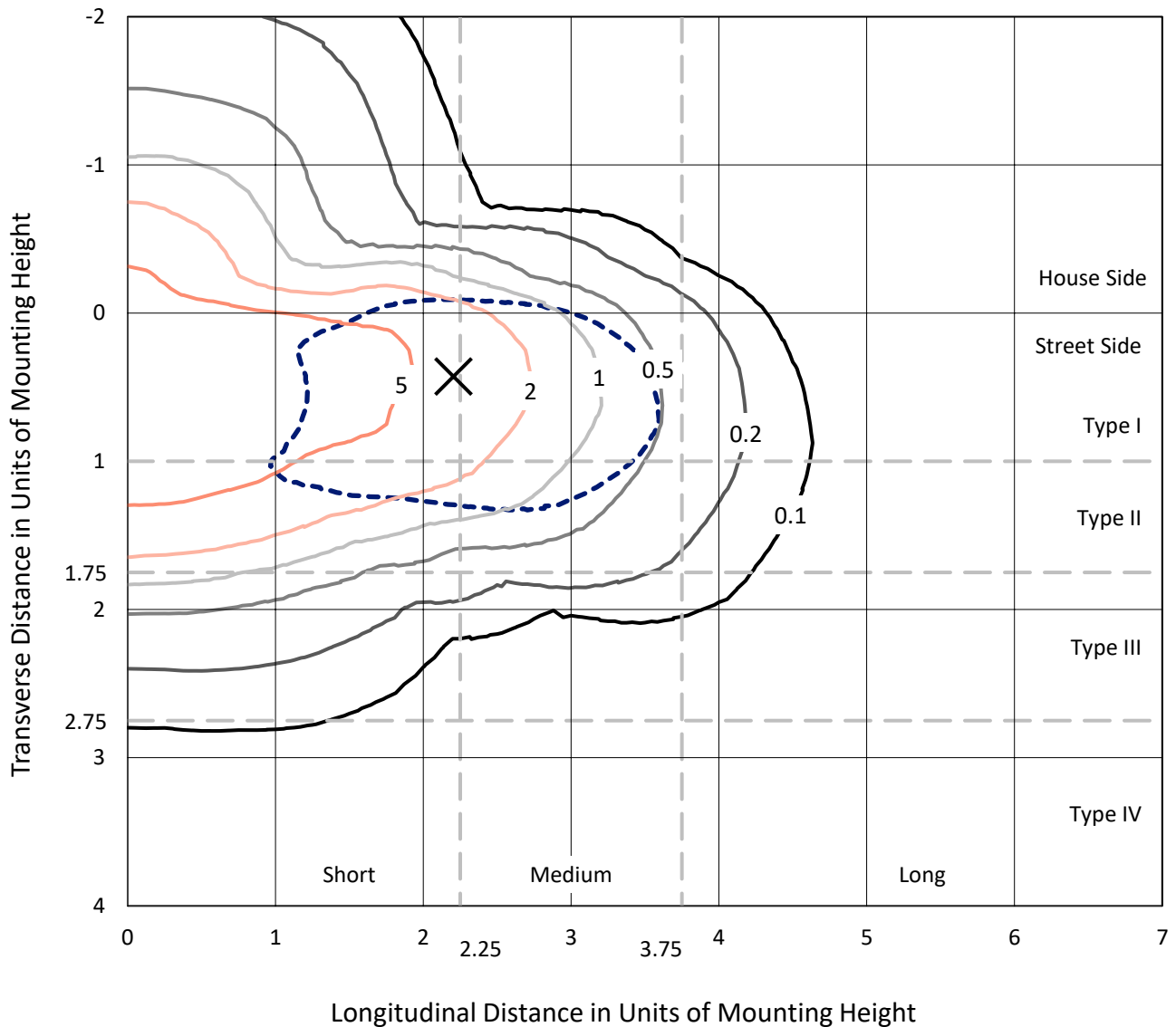
Lumens per Lamp: N/A
Luminaire Lumens: 51761.6 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3
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

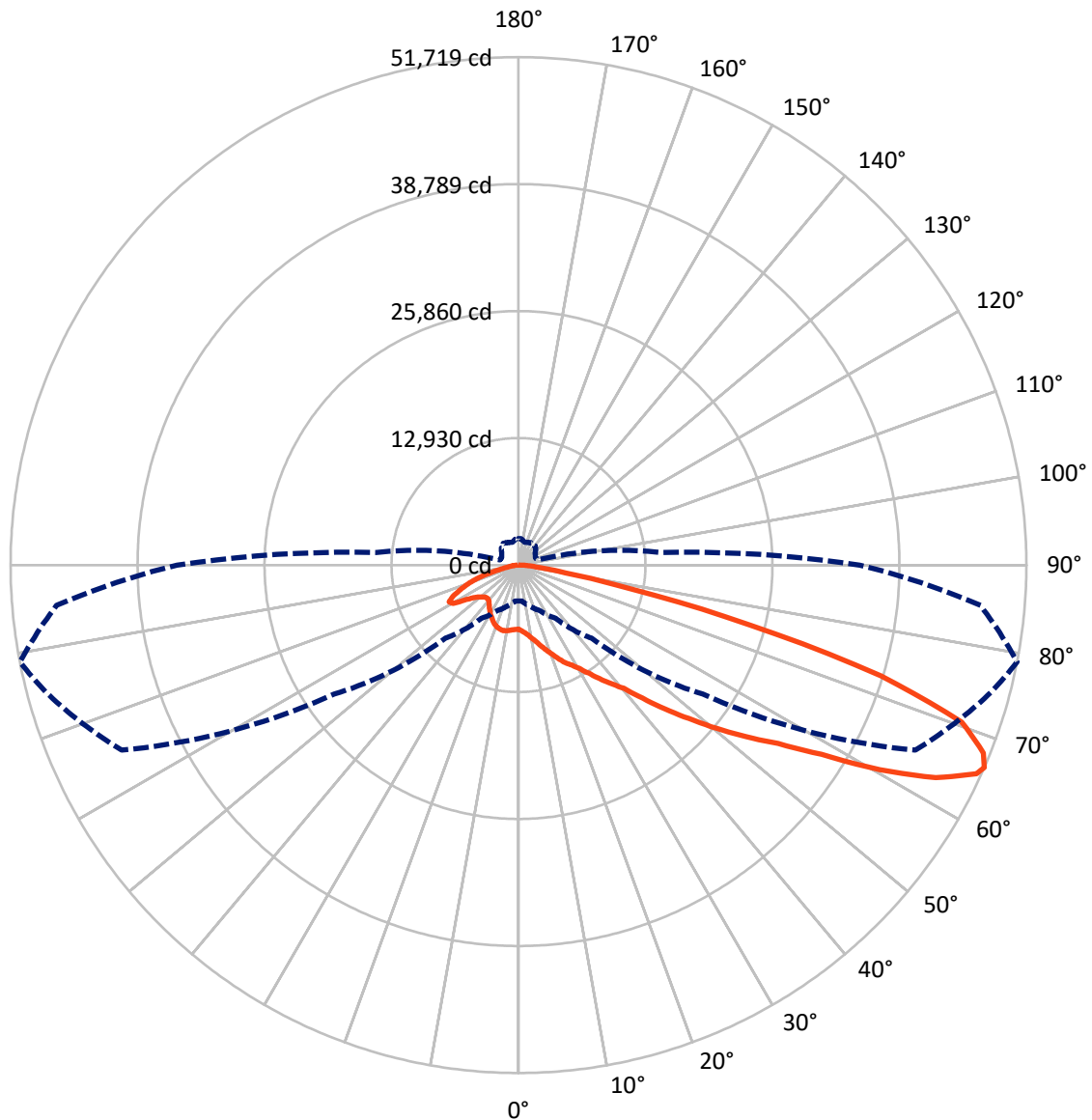
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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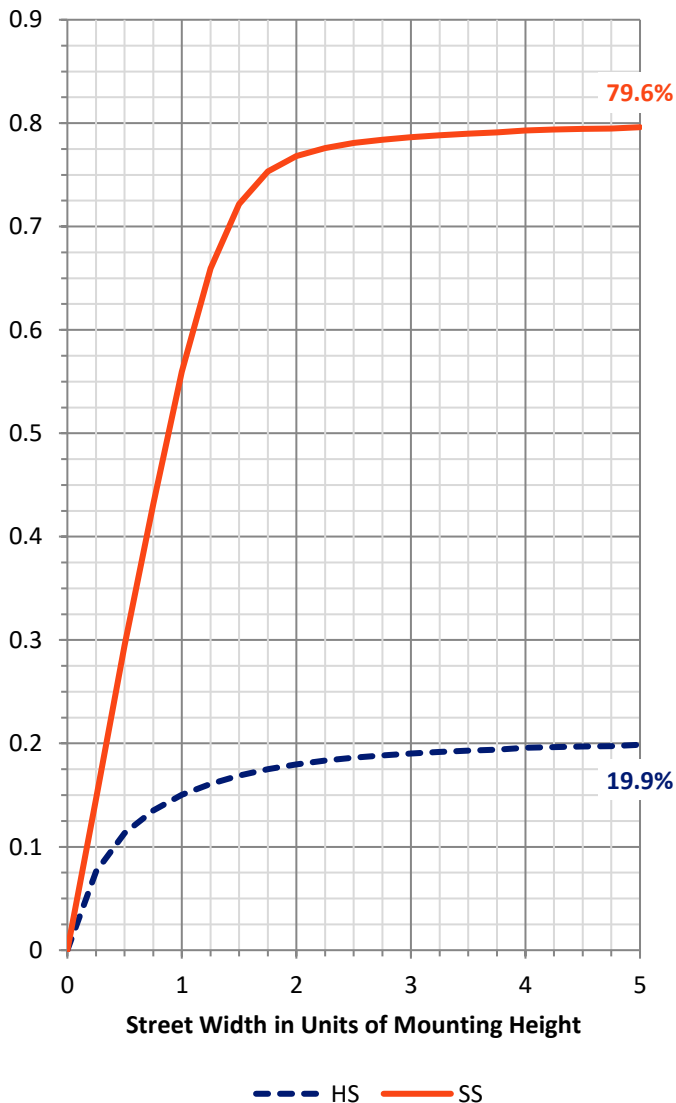
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10452.5	0.0	10452.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	41309.1	0.0	41309.1
	% Fixture	79.8	0.0	79.8
Total	Lumens	51761.6	0.0	51761.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.7	1.2
10°-20°	1984.6	3.8
20°-30°	3406.6	6.6
30°-40°	5262.5	10.2
40°-50°	8429.3	16.3
50°-60°	12585.5	24.3
60°-70°	12931.6	25.0
70°-80°	5732.4	11.1
80°-90°	786.5	1.5
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°	51761.6	100.0
0°-180°	51761.6	100.0



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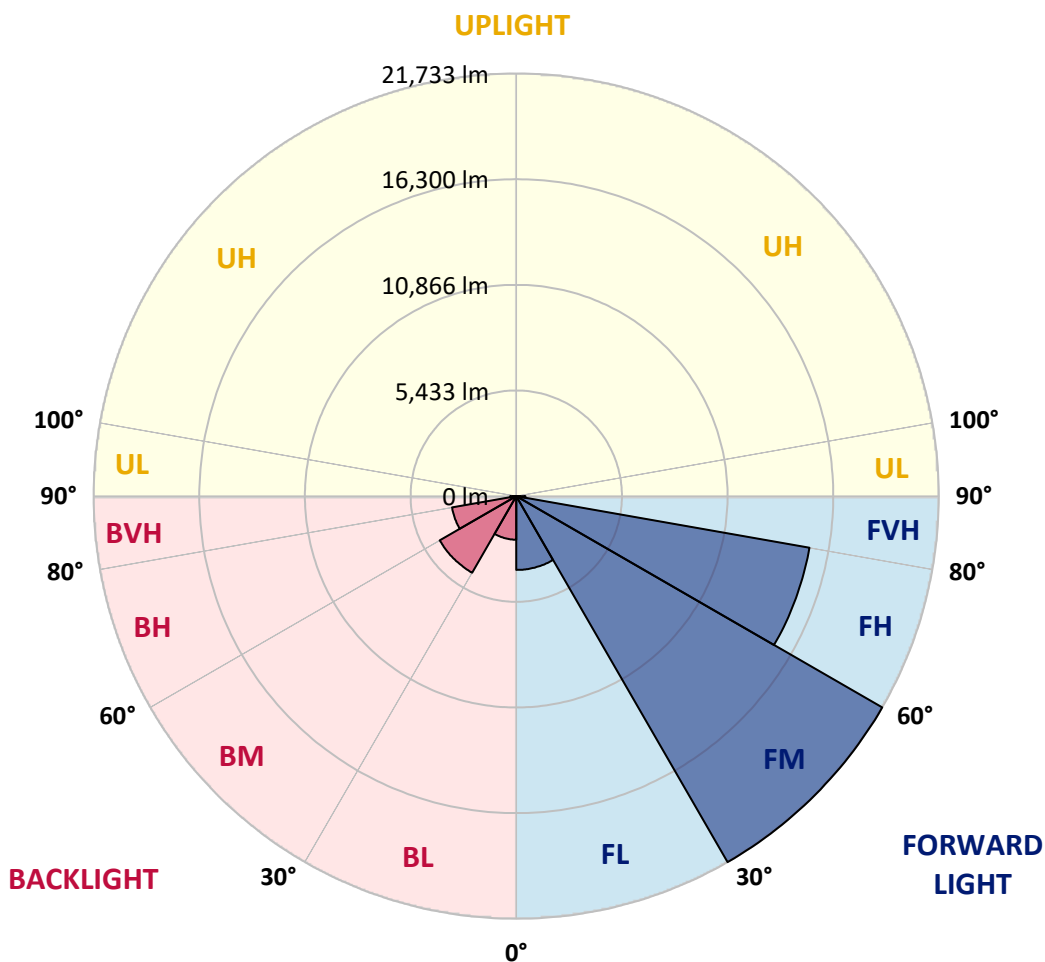
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3794.5	7.3			
FM (30°-60°)	21733.0	42.0			
FH (60°-80°)	15309.9	29.6			G5
FVH (80°-90°)	471.7	0.9			G3/500
BL (0°-30°)	2239.4	4.3	B3/2500		
BM (30°-60°)	4544.3	8.8	B3/5000		
BH (60°-80°)	3354.0	6.5	B4/5000		G4/5000
BVH (80°-90°)	314.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6536.1	6536.1	6536.1	6536.1	6536.1	6536.1	6536.1	6536.1	6536.1	6536.1	6536.1
2.5°	6951.7	6957.4	6957.4	6934.6	6940.3	6957.4	6894.7	6758.1	6758.1	6735.3	6695.5
5°	7378.7	7350.2	7310.4	7316.1	7293.3	7293.3	7225.0	7094.0	6980.1	6934.6	6815.0
7.5°	7435.6	7464.1	7458.4	7526.7	7560.9	7560.9	7595.0	7486.9	7316.1	7207.9	7088.3
10°	7549.5	7475.5	7469.8	7629.2	7680.4	7800.0	7936.6	7879.7	7737.4	7583.6	7424.2
12.5°	7617.8	7663.4	7663.4	7743.1	7862.6	8039.1	8278.2	8386.4	8164.4	8005.0	7760.1
15°	7720.3	7657.7	7839.9	7908.2	8135.9	8261.2	8602.8	8881.8	8733.7	8540.1	8153.0
17.5°	7765.8	7726.0	7828.5	7953.7	8340.9	8528.8	8944.4	9331.5	9206.3	9081.0	8682.5
20°	7999.3	7993.6	8039.1	8141.6	8420.6	8790.7	9308.8	9843.9	9889.5	9661.8	9120.9
22.5°	8568.6	8494.6	8494.6	8454.7	8574.3	8955.8	9656.1	10396.2	10601.2	10333.6	9616.2
25°	9092.4	9194.9	9132.3	8950.1	8904.5	9103.8	9906.6	10982.6	11255.9	11005.4	10288.0
27.5°	9764.2	9798.4	9906.6	9661.8	9348.6	9411.2	10179.9	11312.8	11876.5	11540.6	10669.5
30°	10732.1	10669.5	10646.7	10373.4	9963.5	9878.1	10493.0	11796.8	12690.7	12218.1	11119.3
32.5°	11386.9	11540.6	11534.9	11159.1	10663.8	10475.9	10880.1	12252.3	13561.8	13123.4	11950.5
35°	12685.0	12844.4	12719.1	12166.9	11586.1	11210.4	11438.1	12844.4	14558.1	14216.5	12656.5
37.5°	14341.8	14717.5	14449.9	13430.8	12610.9	12201.0	12212.4	13487.7	15577.2	15298.2	13413.7
40°	15486.1	15992.8	15622.8	14666.3	13795.2	13408.0	13254.3	14250.7	16795.6	16499.6	14598.0
42.5°	16903.8	17325.1	17131.5	16186.4	15167.3	14837.1	14529.6	15526.0	18657.4	18520.7	16118.1
45°	18452.4	18651.7	18589.1	17991.2	16858.2	16744.4	16066.9	17205.5	20849.3	20906.3	18019.7
47.5°	19892.8	20001.0	20120.6	19687.9	18981.9	19078.7	17837.5	19004.7	22978.7	23354.5	20137.7
50°	20262.9	20633.0	20912.0	21202.3	21356.1	22010.8	19790.4	21213.7	25426.9	26155.6	22494.7
52.5°	19887.2	19858.7	20707.0	21618.0	23155.2	24527.3	22449.2	23958.0	27590.4	29030.8	24652.6
55°	18179.1	18122.2	19488.6	20695.6	23696.1	25927.9	26246.7	27613.1	30203.7	32076.8	27573.3
57.5°	15190.1	14837.1	16328.8	18310.1	22523.2	26081.6	30061.3	33039.0	34223.2	36358.2	32031.2
60°	10208.3	10060.3	11489.3	13852.1	18287.3	23901.0	32344.4	39831.2	39888.2	42290.8	38948.8
62.5°	6285.5	6314.0	7230.7	9001.3	12804.5	18947.7	31359.4	45257.1	45268.5	47676.8	44642.2
65°	4110.7	4127.7	4867.9	5847.2	7999.3	12850.1	25933.6	45684.1	49009.1	51246.6	47249.8
66°	3660.9	3666.6	4304.2	5101.3	6627.2	10515.8	22904.7	44573.9	49851.7	51719.1	47215.6
67.5°	3085.8	3159.9	3672.3	4287.2	5169.6	7555.2	18173.4	41362.8	49419.0	51058.7	46145.3
70°	2414.0	2453.9	2858.1	3484.4	3877.2	4372.6	10800.4	33716.5	45234.3	47893.1	42251.0
72.5°	1935.8	1969.9	2277.4	2829.6	3148.5	2880.9	5881.3	24464.7	35732.0	38567.3	33232.6
75°	1634.0	1639.7	1787.7	2226.1	2590.5	2163.5	3131.4	15702.5	22927.4	24248.3	20359.7
77.5°	1320.9	1343.6	1446.1	1696.6	2083.8	1702.3	1867.4	8796.4	11512.1	11608.9	9411.2
80°	1076.1	1087.4	1150.1	1235.5	1588.5	1258.2	1263.9	4292.8	4936.2	4822.3	3826.0
82.5°	848.3	859.7	933.7	916.6	1167.2	899.6	785.7	2066.7	2271.7	2226.1	1759.3
85°	478.2	478.2	734.5	734.5	740.1	569.3	478.2	973.6	1201.3	1121.6	825.5
87.5°	153.7	159.4	222.0	233.4	370.1	256.2	233.4	364.4	569.3	501.0	296.1
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°	6536.1	6536.1	6536.1	6536.1	6536.1	6536.1	6536.1	6536.1	6536.1	6536.1	6536.1
2.5°	6672.7	6581.6	6541.8	6410.8	6376.6	6291.2	6251.4	6200.1	6183.1	6109.1	6177.4
5°	6723.9	6695.5	6536.1	6370.9	6245.7	6188.8	6103.4	5989.5	5978.1	5875.6	5864.2
7.5°	6940.3	6843.5	6564.5	6388.0	6137.5	5995.2	5807.3	5750.4	5676.4	5642.2	5716.2
10°	7276.2	7031.4	6615.8	6171.7	5864.2	5693.4	5556.8	5516.9	5522.6	5499.9	5465.7
12.5°	7515.3	7281.9	6530.4	5989.5	5590.9	5425.8	5414.5	5454.3	5516.9	5488.5	5528.3
15°	7856.9	7418.5	6467.7	5687.7	5368.9	5323.4	5317.7	5437.2	5431.5	5431.5	5425.8
17.5°	8175.8	7555.2	6240.0	5425.8	5135.5	5169.6	5209.5	5203.8	5260.7	5283.5	5323.4
20°	8580.0	7714.6	5921.2	5163.9	4959.0	4947.6	4941.9	4947.6	5004.5	5038.7	5010.2
22.5°	8933.0	7748.8	5653.6	4913.4	4748.3	4702.8	4628.8	4702.8	4674.3	4685.7	4719.9
25°	9240.4	7754.5	5272.1	4725.5	4537.7	4435.2	4378.2	4372.6	4321.3	4315.6	4315.6
27.5°	9496.6	7560.9	4936.2	4463.6	4287.2	4190.4	4184.7	4122.0	3991.1	3905.7	3917.1
30°	9695.9	7412.8	4702.8	4235.9	4065.1	4048.0	3996.8	3854.5	3683.6	3575.5	3575.5
32.5°	10048.9	7116.8	4383.9	4002.5	3917.1	3894.3	3774.7	3649.5	3490.1	3387.6	3370.5
35°	10310.8	6843.5	4173.3	3803.2	3763.4	3717.8	3615.3	3478.7	3433.1	3410.4	3427.4
37.5°	10606.9	6536.1	3917.1	3632.4	3672.3	3586.9	3467.3	3404.7	3564.1	3524.2	3541.3
40°	11079.4	6319.7	3666.6	3529.9	3569.8	3473.0	3319.3	3296.5	3495.8	3353.4	3319.3
42.5°	11944.8	6314.0	3512.8	3376.2	3404.7	3330.7	3194.0	3182.6	3262.3	3091.5	3040.3
45°	13020.9	6513.3	3399.0	3262.3	3239.6	3228.2	3182.6	3131.4	3063.1	2841.0	2784.1
47.5°	14307.6	6837.8	3376.2	3091.5	3120.0	3216.8	3159.9	3028.9	2852.4	2710.1	2681.6
50°	15867.6	7509.6	3319.3	2966.3	3017.5	3171.2	3125.7	2943.5	2784.1	2693.0	2675.9
52.5°	17592.7	8358.0	3245.3	2772.7	2886.6	3131.4	3154.2	2983.4	2749.9	2670.2	2658.8
55°	19625.3	9610.5	3159.9	2562.0	2732.8	3091.5	3154.2	2869.5	2704.4	2704.4	2693.0
57.5°	23639.1	11865.1	2983.4	2368.5	2596.2	3017.5	3063.1	2875.2	2710.1	2710.1	2687.3
60°	29526.1	15383.7	2647.4	2220.4	2465.3	2915.0	2994.7	2789.8	2647.4	2681.6	2675.9
62.5°	34132.1	16454.0	2362.8	2078.1	2334.3	2727.2	2903.6	2698.7	2573.4	2698.7	2710.1
65°	35117.1	15372.3	2072.4	1924.4	2152.1	2545.0	2772.7	2567.7	2465.3	2710.1	2721.5
66°	34764.1	14529.6	1969.9	1878.8	2072.4	2453.9	2693.0	2522.2	2408.3	2698.7	2704.4
67.5°	33192.7	13265.7	1856.1	1782.0	1964.2	2322.9	2601.9	2459.6	2317.2	2664.5	2613.3
70°	29776.6	11250.2	1662.5	1611.2	1810.5	2106.6	2391.2	2300.1	2174.9	2453.9	2362.8
72.5°	22933.1	8989.9	1457.5	1463.2	1634.0	1884.5	2180.6	2118.0	2009.8	2152.1	2095.2
75°	13966.0	5744.7	1269.6	1281.0	1423.4	1673.9	1981.3	1935.8	1804.8	1884.5	1856.1
77.5°	6188.8	2846.7	1070.4	1093.1	1207.0	1474.6	1725.1	1651.1	1514.5	1531.5	1520.1
80°	2402.6	1349.3	871.1	899.6	973.6	1178.5	1429.1	1360.7	1241.2	1218.4	1207.0
82.5°	1155.8	751.5	671.8	683.2	711.7	939.4	1229.8	1144.4	985.0	882.5	882.5
85°	580.7	466.9	472.6	432.7	472.6	637.7	831.2	694.6	575.0	512.4	523.8
87.5°	233.4	233.4	233.4	199.3	210.7	301.8	387.2	261.9	239.1	142.3	142.3
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)