

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: P478139

Luminaire Tested: **IFLD-M-SA4C-735-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478139
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

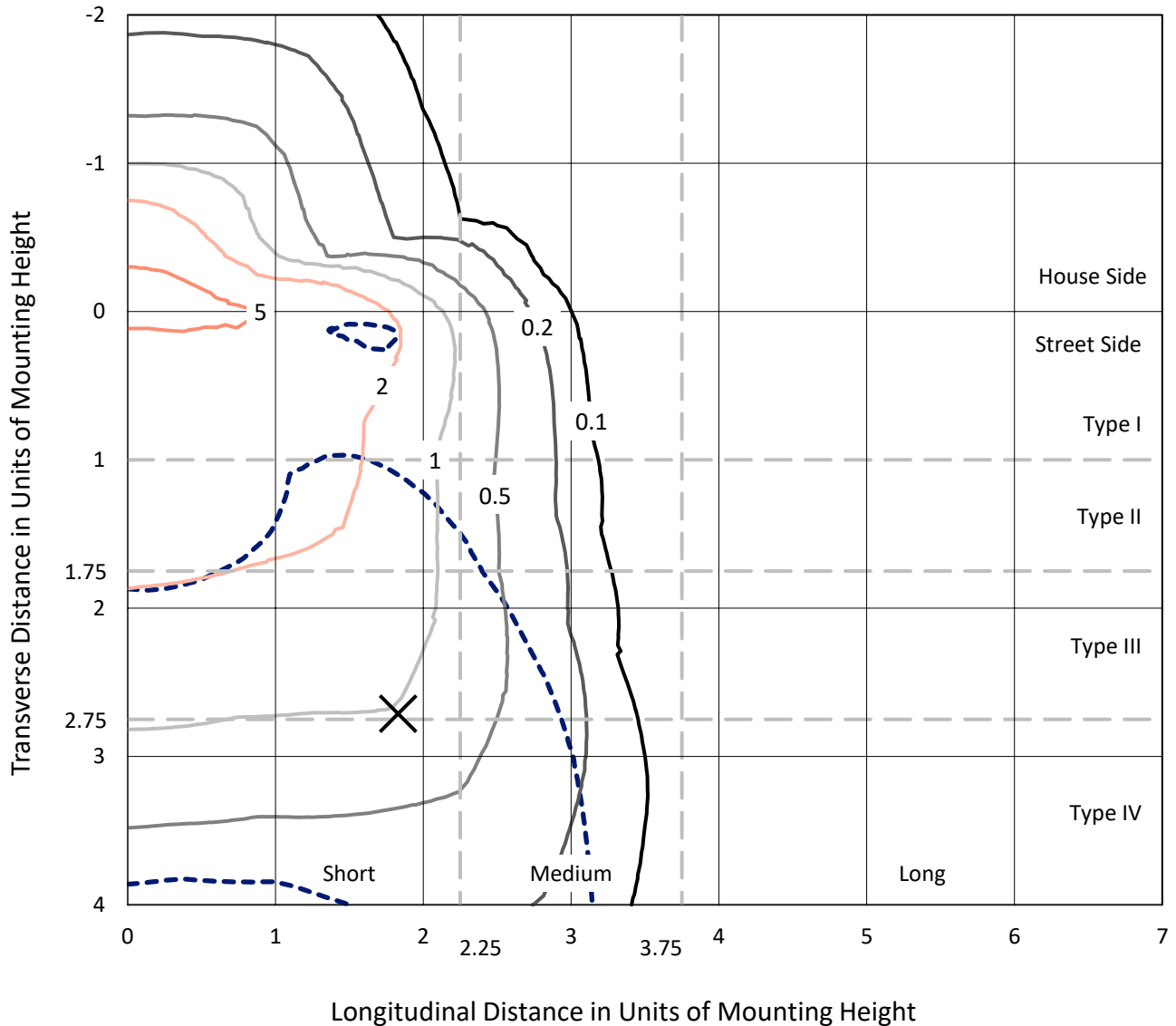
Lumens per Lamp: N/A
Luminaire Lumens: 28729 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

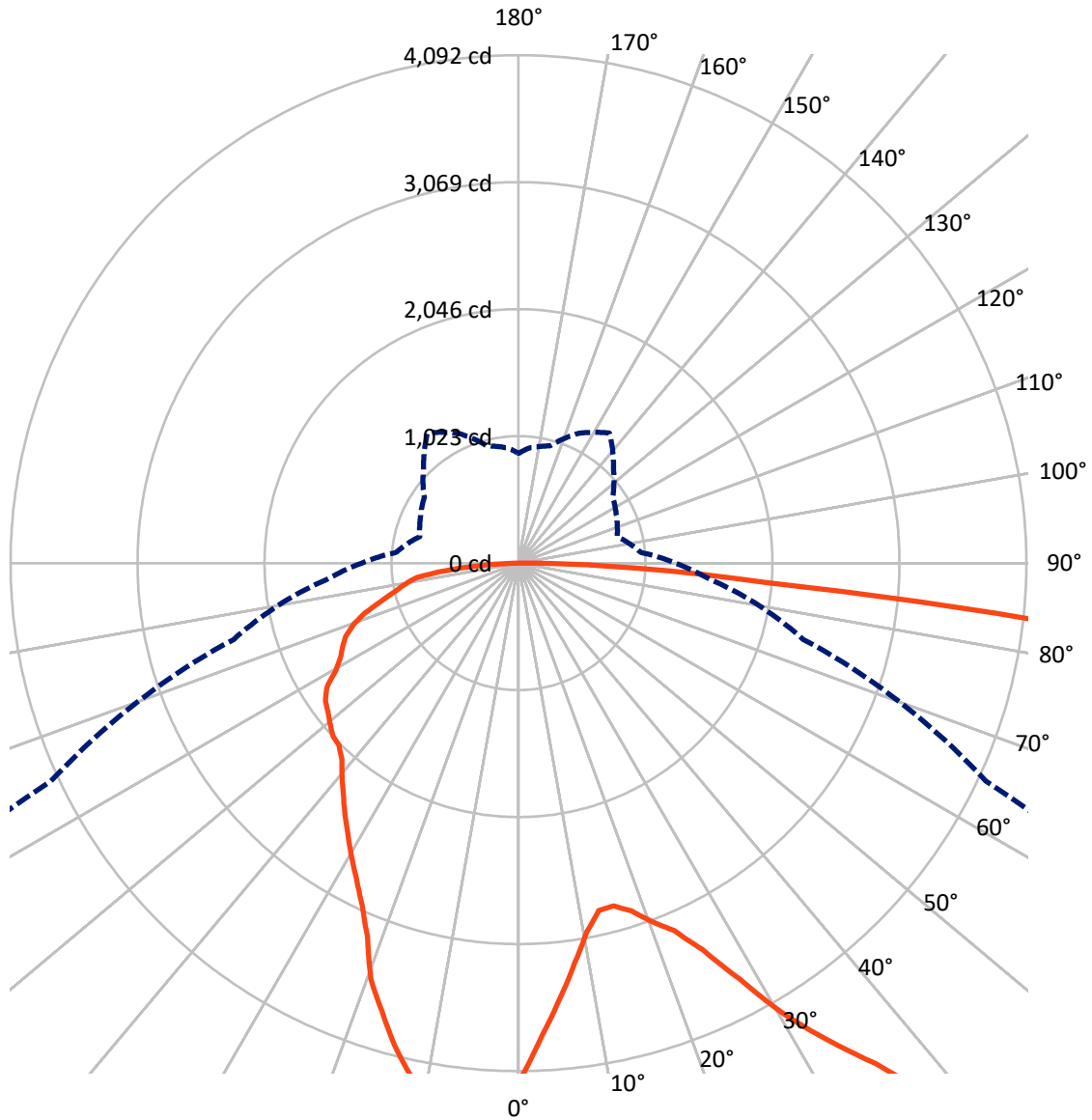
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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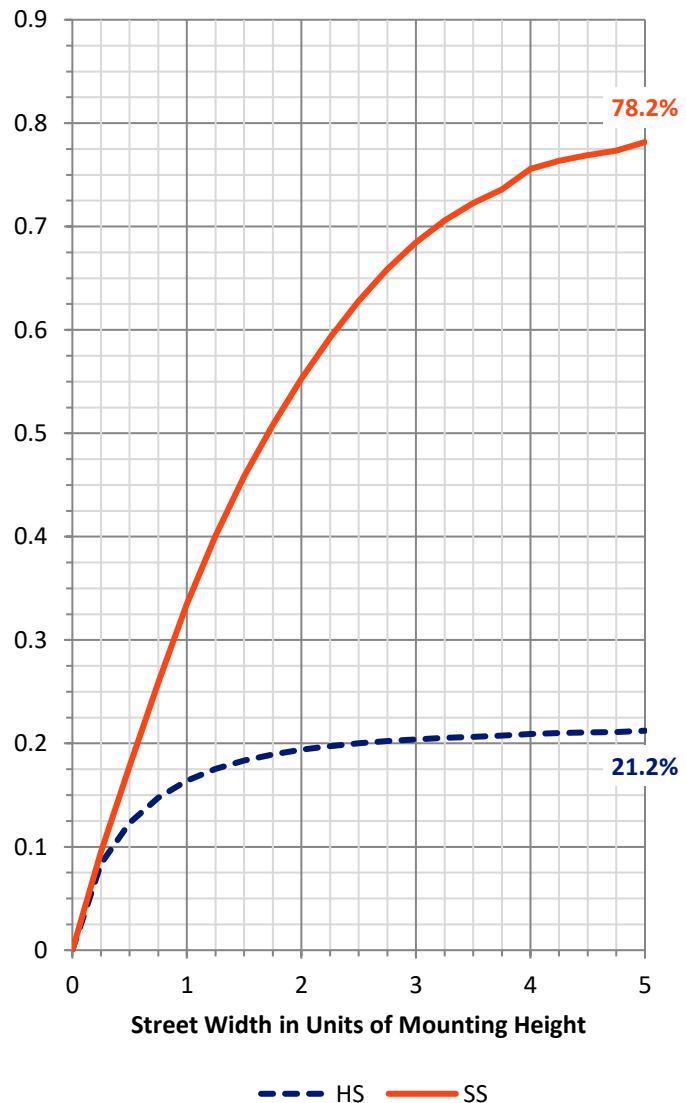
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6205.8	0.0	6205.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	22523.2	0.0	22523.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	28729.0	0.0	28729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.1	1.3
10°-20°	1063.9	3.7
20°-30°	1751.0	6.1
30°-40°	2618.5	9.1
40°-50°	3881.9	13.5
50°-60°	5594.2	19.5
60°-70°	7138.9	24.8
70°-80°	5555.3	19.3
80°-90°	745.3	2.6
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°	28729.0	100.0
0°-180°	28729.0	100.0

Coefficient of Utilization



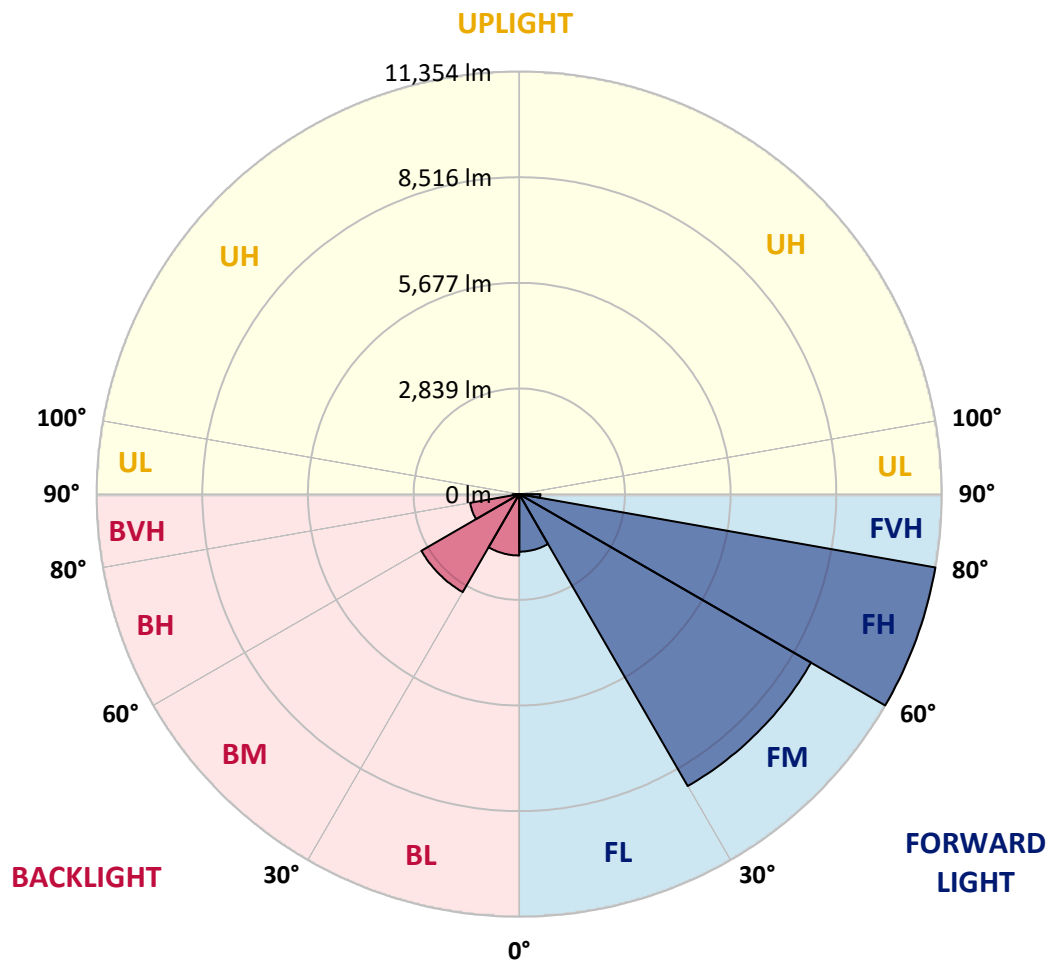
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1546.1	5.4			
FM (30°-60°)	9055.6	31.5			
FH (60°-80°)	11354.2	39.5			G4/12000
FVH (80°-90°)	567.3	2.0			G4/750
BL (0°-30°)	1648.8	5.7	B3/2500		
BM (30°-60°)	3039.0	10.6	B3/5000		
BH (60°-80°)	1340.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	178.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7
2.5°	3690.5	3702.6	3742.1	3751.2	3793.7	3769.4	3821.1	3912.2	3963.8	4039.8	4130.9
5°	3398.9	3347.2	3371.5	3465.7	3514.3	3526.4	3581.1	3736.0	3833.2	3945.6	4115.7
7.5°	3055.6	3046.5	3095.1	3155.9	3253.1	3262.2	3383.7	3520.4	3720.8	3969.9	4170.4
10°	2821.8	2861.3	2888.6	2952.4	3019.2	3019.2	3174.1	3411.0	3638.8	3878.8	4182.5
12.5°	2809.6	2785.3	2791.4	2824.8	2873.4	2934.2	3079.9	3292.6	3581.1	3860.6	4234.2
15°	2849.1	2858.2	2803.5	2846.1	2864.3	2885.6	3046.5	3286.5	3544.7	3924.4	4322.3
17.5°	3058.7	3007.1	2922.0	2882.5	2946.3	2946.3	3055.6	3244.0	3550.7	3957.8	4449.8
20°	3222.7	3222.7	3083.0	3040.5	3086.0	3076.9	3152.8	3292.6	3581.1	4024.6	4592.6
22.5°	3499.1	3538.6	3307.8	3219.7	3216.6	3240.9	3307.8	3426.2	3666.2	4118.7	4729.3
25°	3897.0	3906.1	3638.8	3547.7	3450.5	3490.0	3502.2	3620.6	3742.1	4228.1	4884.2
27.5°	4340.5	4334.4	4088.4	3860.6	3796.8	3805.9	3739.1	3818.0	3854.5	4261.5	5105.9
30°	4832.5	4777.9	4592.6	4270.6	4219.0	4161.3	4015.5	4012.4	4088.4	4449.8	5412.7
32.5°	5154.5	5084.6	4957.1	4726.2	4583.5	4589.5	4358.7	4355.7	4288.8	4656.4	5680.0
35°	5470.4	5364.1	5330.7	5093.8	4951.0	4966.2	4780.9	4756.6	4635.1	4969.2	6120.4
37.5°	5850.1	5755.9	5807.6	5628.3	5452.2	5379.3	5294.2	5263.9	5105.9	5409.7	6721.8
40°	6269.2	6238.9	6205.5	6117.4	6011.1	6017.1	5926.0	5895.6	5661.8	5941.2	7298.9
42.5°	6834.2	6718.8	6545.6	6603.4	6658.0	6715.7	6685.4	6606.4	6363.4	6481.9	7942.9
45°	7359.7	7207.8	6888.9	6907.1	7131.9	7177.4	7545.0	7535.8	7046.8	7168.3	8674.9
47.5°	7715.1	7645.2	7453.8	7432.6	7754.5	7751.5	8413.7	8413.7	7766.7	7851.7	9461.6
50°	8243.6	8061.3	7979.3	8085.6	8249.6	8362.0	9300.6	9358.3	8474.4	8565.5	10491.3
52.5°	8863.2	8635.4	8428.9	8702.2	8993.8	9066.7	10178.4	10154.1	9018.1	9394.8	11697.1
55°	9376.5	9261.1	9118.3	9276.3	9753.2	9844.3	11059.3	10834.5	9561.8	10081.2	12277.3
57.5°	9974.9	10044.8	10075.1	10035.7	10603.6	10746.4	12064.6	11420.7	10029.6	10542.9	12617.5
60°	10877.0	10919.5	10959.0	11053.2	11654.6	11855.1	12860.5	12155.8	10324.2	10810.2	12644.8
62.5°	12249.9	12085.9	12174.0	12499.0	12982.0	13209.8	14032.9	12672.1	10549.0	10971.2	11751.8
65°	13820.3	13598.5	13507.4	13926.6	15178.0	14995.8	15496.9	13057.9	10224.0	10369.8	9965.8
67.5°	15411.9	15436.2	15202.3	16043.7	17577.6	17577.6	16857.7	13243.2	9343.1	8404.6	6989.1
70°	16675.5	16751.4	16879.0	18510.1	20940.0	21307.5	18543.5	12483.8	7548.0	5594.9	3821.1
72.5°	16657.2	16429.4	17082.5	20086.5	23995.7	23688.9	18895.8	9871.6	4711.0	2739.8	1752.6
73°	16283.6	16092.3	16806.1	20071.3	24120.2	23831.6	18637.6	9100.1	4155.2	2375.3	1558.2
75°	13297.8	12951.6	14166.5	18179.0	22316.0	22537.7	15834.1	5935.1	2278.1	1464.0	1096.5
77.5°	6062.7	6214.6	7797.1	12195.3	17197.9	17459.1	10409.3	2566.6	1248.4	1026.6	808.0
80°	1947.0	2044.2	3034.4	6062.7	10779.8	11250.6	4811.3	1166.4	890.0	786.7	604.4
82.5°	744.2	741.1	1272.7	2521.1	5108.9	5409.7	1758.7	710.8	662.2	580.1	428.3
85°	261.2	273.4	479.9	996.3	2010.8	2104.9	610.5	394.9	458.7	388.8	246.0
87.5°	91.1	94.2	170.1	361.5	692.5	732.0	170.1	157.9	227.8	224.8	124.5
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°	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7
2.5°	4161.3	4188.6	4197.7	4307.1	4307.1	4307.1	4349.6	4349.6	4337.4	4307.1	4380.0
5°	4179.5	4228.1	4322.3	4416.4	4440.7	4462.0	4519.7	4471.1	4489.3	4458.9	4486.3
7.5°	4231.1	4298.0	4474.1	4531.8	4492.4	4537.9	4477.2	4443.8	4410.3	4422.5	4380.0
10°	4319.2	4404.3	4486.3	4592.6	4516.7	4471.1	4346.6	4316.2	4209.9	4173.4	4206.8
12.5°	4428.6	4531.8	4671.6	4632.1	4486.3	4355.7	4222.0	4094.4	4030.7	3939.5	3963.8
15°	4537.9	4656.4	4677.6	4610.8	4428.6	4264.5	4021.5	3842.3	3778.6	3696.5	3739.1
17.5°	4656.4	4768.8	4732.3	4559.2	4313.1	4064.1	3787.7	3611.5	3477.9	3426.2	3426.2
20°	4832.5	4887.2	4829.5	4474.1	4173.4	3845.4	3578.1	3377.6	3244.0	3222.7	3189.3
22.5°	4969.2	5057.3	4799.1	4349.6	3969.9	3559.9	3253.1	3177.1	3137.7	3104.2	3061.7
25°	5145.4	5142.4	4744.5	4234.2	3620.6	3219.7	3034.4	3028.3	3010.1	2997.9	3055.6
27.5°	5312.5	5242.6	4680.7	3948.7	3259.2	2961.5	2861.3	2928.1	2955.4	2937.2	2961.5
30°	5576.7	5461.3	4589.5	3644.9	2940.2	2700.3	2718.5	2809.6	2855.2	2882.5	2846.1
32.5°	5856.2	5680.0	4401.2	3329.0	2657.7	2536.2	2578.8	2672.9	2727.6	2758.0	2791.4
35°	6260.1	5850.1	4209.9	2915.9	2454.2	2436.0	2460.3	2511.9	2590.9	2612.2	2621.3
37.5°	6758.3	6108.3	3951.7	2584.8	2296.3	2317.6	2341.9	2360.1	2363.1	2402.6	2387.4
40°	7256.4	6327.0	3575.0	2269.0	2132.3	2247.7	2235.5	2202.1	2174.8	2138.3	2129.2
42.5°	7693.8	6518.3	3155.9	2001.7	1986.5	2174.8	2135.3	2050.3	1986.5	1959.1	1913.6
45°	8185.9	6788.6	2733.7	1834.6	1874.1	2086.7	2074.6	1944.0	1861.9	1764.7	1752.6
47.5°	8823.7	7071.1	2329.7	1661.5	1767.8	2053.3	2059.4	1892.3	1773.9	1643.2	1625.0
50°	9640.8	7478.1	2022.9	1588.6	1704.0	2004.7	2013.8	1822.5	1667.5	1533.9	1521.7
52.5°	10424.4	7894.3	1767.8	1476.2	1661.5	1947.0	1968.3	1758.7	1579.5	1412.4	1421.5
55°	10819.3	7742.4	1549.1	1394.2	1564.3	1852.8	1931.8	1713.1	1445.8	1330.4	1327.4
57.5°	10907.4	7368.8	1376.0	1309.1	1482.3	1752.6	1871.1	1576.4	1385.1	1287.9	1275.7
60°	10618.8	6715.7	1239.3	1218.0	1379.0	1649.3	1731.3	1503.5	1324.3	1245.3	1227.1
62.5°	9908.1	6038.4	1145.1	1175.5	1290.9	1536.9	1643.2	1451.9	1266.6	1211.9	1172.4
65°	8125.1	4966.2	1069.2	1093.5	1199.8	1427.6	1588.6	1394.2	1215.0	1163.3	1160.3
67.5°	5628.3	3423.2	1008.4	1054.0	1126.9	1348.6	1533.9	1330.4	1148.1	1129.9	1105.6
70°	2882.5	1825.5	929.5	965.9	1047.9	1248.4	1436.7	1263.6	1078.3	1075.2	1044.9
72.5°	1461.0	1069.2	838.3	893.0	950.7	1117.8	1315.2	1175.5	990.2	956.8	908.2
73°	1263.6	990.2	823.1	871.7	926.4	1081.3	1278.8	1154.2	978.1	929.5	883.9
75°	920.3	780.6	738.1	786.7	829.2	975.0	1157.3	1057.0	899.1	847.4	804.9
77.5°	689.5	601.4	613.6	668.2	704.7	841.4	1029.7	956.8	814.0	744.2	725.9
80°	507.2	458.7	507.2	558.9	586.2	741.1	938.6	829.2	686.5	607.5	592.3
82.5°	361.5	334.1	391.8	425.2	437.4	613.6	844.4	662.2	519.4	416.1	382.7
85°	206.5	203.5	264.3	261.2	270.3	358.4	555.8	440.4	334.1	255.1	249.1
87.5°	91.1	100.2	133.6	106.3	112.4	170.1	236.9	164.0	136.7	75.9	57.7
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)